General Information

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Rights and Privacy Act of 1974: The federal Family Educational Rights and Privacy Act (FERPA) of 1974 affords persons who are currently, or who were formerly, in attendance at the university as registered students a right of access to their "educational records," which contain information directly related to such persons and the right to challenge the accuracy of their records. The act also restricts the persons to whom the university may disclose a student's educational records without the student's written permission. The university's policy is to comply fully with all provisions of the act. Any person who feels the university has failed to comply with the Family Educational Rights and Privacy Act may file a complaint with the Registrar's Office or with the U.S. Department of Education Family Policy Compliance Office via email at FERPA.Complaints@ed.gov or physical mail at 400 Maryland Ave. SW Washington, DC 20202-8520.
Limitations: The 2019-20 Undergraduate Catalog describes current academic programs of study, course descriptions, and degree requirements at the undergraduate level for the academic years 2019-20 at the University of Nevada, Las Vegas. The content of this catalog is current as of May 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 provisions 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 requirements for financial, curricular, or programming reasons; to 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.

Admissions: Inquiries about admission to UNLV should be addressed to the Office of Admissions, University of Nevada, Las Vegas, 4505 S. Maryland Parkway, Box 451021, Las Vegas, NV 89154-1021, or visit the UNLV Web site at www.unlv.edu

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, sexual orientation, gender identity, 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 foster their academic and personal success as integral members of our campus community. The presence and achievement of students from historically underrepresented groups at UNLV not only benefits these students individually, but also enhances the educational and interpersonal experiences of everyone in our campus community. UNLV actively encourages applicants whose racial and ethnic background are underrepresented in higher education in Nevada, who are first-generation college students, and/or those who have demonstrated financial need.

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.

In its 60-year history, UNLV has undergone an amazing transformation from a small branch college into a thriving urban research institution of 30,000 students and 3,300 faculty and staff.

Along the way, the urban land-grant university has become a dynamic resource for one of the country’s fastest-growing and most enterprising cities. UNLV’s 332-acre main campus, located on the southern tip of Nevada in a desert valley surrounded by mountains, is home to more than 220 undergraduates, master’s, and doctoral degree programs, all accredited by the Northwest Commission on Colleges and Universities.

UNLV Mission Statement
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.

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: Advance Student Achievement
- Core Theme 2: Advance Research, Scholarship, and Creative Activity
- Core Theme 3: Create an Academic Health Center
- Core Theme 4: Foster Community Partnerships

More information is available on the UNLV NWCCU accreditation website
www.unlv.edu/provost/nwccu
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# Academic Calendar

## Fall Semester 2019

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<tr>
<td>August 26, Monday</td>
<td>Instruction Begins</td>
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<tr>
<td>September 2, Monday</td>
<td>Labor Day Recess</td>
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<tr>
<td>October 19, Saturday</td>
<td>Mid-Semester</td>
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<tr>
<td>October 25, Friday</td>
<td>Nevada Day Recess</td>
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<tr>
<td>November 11, Monday</td>
<td>Veterans Day Recess</td>
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<tr>
<td>November 28-29, Thursday &amp; Friday</td>
<td>Thanksgiving Recess</td>
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<tr>
<td>December 2-7, Monday - Saturday</td>
<td>Study Week</td>
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<td>December 7, Saturday</td>
<td>Instruction Ends</td>
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<tr>
<td>December 9-14, Monday - Saturday</td>
<td>Final Examinations</td>
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<tr>
<td>December 14, Saturday</td>
<td>Semester Ends</td>
</tr>
<tr>
<td>December 17, Tuesday by 4:00 PM</td>
<td>Fall grades due</td>
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<tr>
<td>December 17, Tuesday at 4:00 PM</td>
<td>Commencement</td>
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## Spring Semester 2020

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<td>January 20, Monday</td>
<td>Martin Luther King Jr. Day Recess</td>
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<td>January 21, Tuesday</td>
<td>Instruction Begins</td>
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<tr>
<td>February 17, Monday</td>
<td>President's Day Recess</td>
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<tr>
<td>March 15, Saturday</td>
<td>Mid-Semester</td>
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<tr>
<td>March 16-21, Monday - Saturday*</td>
<td>Spring Break recess</td>
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<td>May 4-9, Monday - Saturday</td>
<td>Study Week</td>
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<tr>
<td>May 9, Saturday</td>
<td>Instruction ends</td>
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<tr>
<td>May 11-16, Monday - Saturday</td>
<td>Final examinations</td>
</tr>
<tr>
<td>May 16, Saturday</td>
<td>Semester Ends</td>
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<tr>
<td>May 19, Tuesday by 4:00 PM</td>
<td>Spring Grades Due</td>
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<tr>
<td>May 16, Saturday at 9 AM &amp; 2PM</td>
<td>Commencement</td>
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## Summer Session I 2020

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<td>May 25, Monday</td>
<td>Memorial Day Recess</td>
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<tr>
<td>June 5, Friday</td>
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<td>June 9, Tuesday by 4:00 PM</td>
<td>Summer Session I grades due</td>
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## Summer Session II 2020

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<td>June 8, Monday</td>
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<td>July 3, Thursday</td>
<td>Independence Day Recess</td>
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<td>July 10, Friday</td>
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## Summer Session III 2020

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<td>August 14, Friday</td>
<td>Instruction Ends</td>
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<tr>
<td>August 17, Monday by 4:00 PM</td>
<td>Summer Session III grades due</td>
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</table>

*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.**

Observed Holidays were determined using the guidelines in NRS 236.015
Majors & Minors

Undergraduate students may choose from any of the academic degrees and majors listed below. Students interested in advanced degrees should refer to the Graduate Catalog.

**Lee Business School**

**BACHELOR OF ARTS**
- Economics

**BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION**
- Accounting
- Economics
- Entrepreneurship
- Finance
- Information Management
- International Business
- Management
- Marketing
- Real Estate

**MINORS**
- Accounting
- Auditing
- Business Spanish Experience
- Business Administration (for non-business majors only)
- Business Analytics
- Economics
- Entrepreneurship
- Finance
- Information Management
- International Business
- Management
- Marketing
- Real Estate
- Risk Management and Insurance

**College of Education**

**BACHELOR OF ARTS IN EDUCATION**
- Elementary Education
- Secondary Education
- Special Education

**BACHELOR OF SCIENCE IN EDUCATION**
- Elementary Education
- Secondary Education
- Special Education

**MINORS**
- Addictions Prevention
- Addictions Treatment
- Human Services
- Problem Compulsive Gambling
- Secondary Education
- Special Education

**College of Engineering, Howard R. Hughes**

**BACHELOR OF ARTS**
- Computer Science

**BACHELOR OF SCIENCE**
- Computer Science
- Construction Management
- Entertainment Engineering and Design

**BACHELOR OF SCIENCE IN ENGINEERING**
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Mechanical Engineering

**DEPARTMENT OF MILITARY SCIENCE**

**MINORS**
- Aerospace Studies
- Computer Science
- Engineering Science
- Information Technology
- Military Science
Solar & Renewable Energy
Technology Commercialization
Unmanned Aircraft System (UAS)

College of Fine Arts

BACHELOR OF ARTS
Art
Art History
Dance
Film
Music
Theater

BACHELOR OF FINE ARTS
Art
Dance

BACHELOR OF LANDSCAPE ARCHITECTURE
Landscape Architecture

BACHELOR OF MUSIC
Music

BACHELOR OF SCIENCE
Architecture
Entertainment Engineering and Design
Graphic Design & Media
Interior Architecture and Design

MINORS
Art History
Dance
Film
Landscape Studies
Music
Pilates
Theater

CERTIFICATE PROGRAMS
Pilates

Division of Health Sciences

BACHELOR OF SCIENCE
Athletic Training
Comprehensive Medical Imaging
Health Care Administration
Health Physics
Kinesiological Sciences
Nuclear Medicine
Nutrition Sciences
Nursing
Public Health

MINORS
Community Health Education
Health Physics
Kinesiology
School Health Education

CERTIFICATE PROGRAMS
Radiography

College of Hospitality, William F. Harrah

BACHELOR OF SCIENCE
Hospitality Management

College of Liberal Arts

BACHELOR OF ARTS
Afro-American Studies
Anthropology
English
French
German
History
Philosophy
Philosophy, Law and Justice
Political Science
Psychology
Romance Languages
Sociology
Spanish
Spanish for the Professions
Gender and Sexuality Studies

MINORS
Afro-American Studies
American Indian & Indigenous Studies
Anthropology
Chinese
Classical Studies
Creative Writing
English
French Studies
German Studies
Gerontology
History
Italian Studies
Japanese Studies
Neuroscience (in Psychology)
Philosophy
Philosophy, Law and Justice
Political Science
Professional Writing
Psychology
Religious Studies
Sociology
Spanish
Spanish for the Professions
Gender and Sexuality Studies

ACADEMIC CERTIFICATES
Academic English Certification
Great Works

BACHELOR OF ARTS
Interdisciplinary Degree Programs:
Afro-American Studies
Asian Studies
Latin American Studies
Multidisciplinary Studies
Social Science Studies
Gender and Sexuality Studies

MINORS
Interdisciplinary Degree Programs:
Asian Studies
Gerontology
Latin American Studies
Latina/o Studies
Gender and Sexuality Studies

College of Sciences

BACHELOR OF ARTS
Chemistry
Mathematical Sciences

BACHELOR OF SCIENCE
Biochemistry
Biological Sciences
Chemistry
Earth and Environmental Science
Geology
Mathematical Sciences
Physics
Preprofessional Biomedical Sciences

PROFESSIONAL DEVELOPMENT DEGREE
Professional Development

MINORS
Actuarial Science
Biological Sciences
Chemistry
Earth Science
Geology
Mathematics
Physical Geography
Physics
Statistics

College of Urban Affairs, Greenspun

BACHELOR OF ARTS
Communication Studies
Criminal Justice
Journalism and Media Studies

BACHELOR OF SCIENCE
Urban Studies

BACHELOR OF SOCIAL WORK

MINORS
Communication Studies
Criminal Justice
Journalism and Media Studies
Course Numbers & Subject Abbreviations

Course Numbers

Lower-division courses 100–299
Upper-division courses 300–499
Graduate and Professional courses 500–799

NOTE: An undergraduate student who has the consent of the instructor and college dean may obtain undergraduate credit for courses numbered 500-799. Details are listed in the Graduate Catalog. Undergraduate-Approval-to-take-a-Graduate-Level-Course Form can be found at www.unlv.edu/graduatecollege/forms.

Graduate students expecting to utilize undergraduate courses in advanced degree programs should refer to the Graduate Catalog.

Subject Abbreviations

Business

Accounting ACC
Business Global Entrepreneurship Scholars BGES
Business Law BLW
Business Administration BUS
Economics ECON
Finance FIN
International Business IB
Management MGT
Management Information Systems IS
Marketing MKT
Real Estate RE

Supply Chain Management SCM

Education

Counselor Education CED
College of Education COE
Early Childhood Education ECE
Educational Psychology EPY
Career and Technical Education EDCT
Elementary Education EDEL
Education Middle School EDMS
Education Reading and Language EDRL
Education Secondary EDSC
Special Education EDSP
Education EDU
Education Leadership EDUC
Workforce Education EDWF
Special Education ESP
Leadership Development and Engagement LDE
Physical Education Activities PEX

Engineering

Aerospace Studies AES
Civil Engineering CEE
Construction Management CEM
Computer Engineering CpE
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<td>Mechanical Engineering</td>
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<td>Military Science</td>
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<td>Architecture</td>
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<td>Comprehensive Medical Imaging</td>
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The University Community
& Libraries
The University Community & Libraries

UNLV Mission Statement: The University of Nevada, Las Vegas, is a research institution committed to rigorous educational programs and the highest standards of a liberal education. We produce accomplished graduates who are well prepared to enter the work force or to continue their education in graduate and professional programs. Our faculty, students, and staff enthusiastically confront the challenges of economic and cultural diversification, urban growth, social justice, and sustainability. Our commitment to our dynamic region and State centrally influences our research and education programs, which improves our local communities. Our commitment to the national and international communities ensures that our research and educational programs engage both traditional and innovative areas of study and global concerns. UNLV's distinctive identity and values permeate a unique institution that brings the best of the world to our region and, in turn, produces knowledge to improve the region and the world around us.

UNLV is committed to and driven by these shared values that will guide our decision making:

- High expectations for student learning and success;
- Discovery through research, scholarship, and creative activity;
- Nurturing equity, diversity, and inclusiveness that promotes respect, support, and empowerment;
- Social, environmental, and economic sustainability;
- Strong reciprocal, and interdependent relationships between UNLV and the region around us;
- An entrepreneurial, innovative, and unconventional spirit.

www.unlv.edu/about/mission

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: Advance Student Achievement
- Core Theme 2: Promote Research, Scholarship, and Creative Activity
- Core Theme 3: Create an Academic Health Center
- Core Theme 4: Foster Community Partnerships

More information is available on the UNLV NWCCU accreditation website
www.unlv.edu/provost/nwccu

UNLV accreditation: UNLV is accredited by the Northwest Commission on Colleges and Universities (NWCCU).

Nevada System of Higher Education: All public higher education in the state of Nevada is organized under a single governance system administered by the 13-member Nevada System of Higher Education (NSHE) Board of Regents. NSHE consists of two universities: The University of Nevada, Las Vegas and the University of Nevada, Reno; an internationally renowned research unit: The Desert Research Institute; one state college: Nevada State College, Henderson; and four community colleges: College of Southern Nevada, Las Vegas; Great Basin College, Elko; Truckee
Meadows Community College, Reno; and Western Nevada College, Carson City.

The Nevada System of Higher Education enrolls more than 108,000 students in a wide range of programs from occupational and training areas to doctoral programs.

**Historical Perspective:** The first college-level classes in Southern Nevada started on an extension basis in 1951 in a spare room at Las Vegas High School. Dr. James Dickinson was the only full-time faculty member, and the student body totaled 12.

Six years later, the university was founded officially as a southern regional division of the University of Nevada by action of the Nevada Board of Regents. In the summer of 1957, the university opened its first classroom and administration building — Maude Frazier Hall.

Twenty-nine students accepted degrees at the university's first commencement ceremonies in 1964. The following year, the Nevada Legislature named the school Nevada Southern University, and the Board of Regents hired the campus' first president.

In 1968, the university was granted autonomy under the state’s higher education system, giving it status equal to that of the University of Nevada, Reno. The Board of Regents approved the institution's present name in January 1969.

Continual expansion in terms of programs, facilities, and influence has characterized the university since its modest start.

Enrollment today exceeds 31,000 students. Students attend classes at an attractive 332-acre campus in metropolitan Las Vegas. Close by are homes and apartments, schools, shopping centers, restaurants, and all the conveniences of a modern cosmopolitan area.

**University Organization:** The President of UNLV acts as chief executive officer and is assisted by the Executive Vice President and Provost; the Senior Vice President for Finance and Business; Chief Diversity Officer; Vice President for Advancement; Vice President for Government Affairs; Vice President for Research and Economic Development; Vice President for Student Affairs; General Counsel; and various deans, directors, and department chairs. The UNLV faculty plays an important policy-making role, with a faculty senate serving the institution. Students are represented on many of the institution’s committees.

The University of Nevada, Las Vegas, is organized into the following academic units: the Colleges of Education, Engineering, Fine Arts, Honors, Hospitality, Liberal Arts, Sciences and Urban Affairs, the Academic Success Center, Schools of Business, Law, Dental Medicine, Medicine, Allied Health Sciences, Community Health Sciences and Nursing and the Division of Educational Outreach. The Graduate College oversees masters and doctoral degree programs in a broad variety of disciplines.

In addition to the academic colleges, various other departments, divisions, and programs work cooperatively to support the major functions of the university.

**Statement of Commitment to the Recruitment of Diverse Students 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, sexual orientation, gender identity, 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 foster their academic and personal success as integral members of our campus community. The presence and achievement of students from historically underrepresented groups at UNLV not only benefits these students individually, but also enhances the educational and interpersonal experiences of everyone in our campus community. UNLV actively encourages applicants whose racial and ethnic background are underrepresented in higher education in Nevada, who are first-generation college students, and/or those who have demonstrated financial need.

**Statement on Diversity in the University Community:** As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students and to promote a campus environment that situates inclusive excellence as central to our mission and vision. Accordingly, the university supports understanding and appreciation of all members of its community regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity, marital status, pregnancy, genetic information, veteran status, or political affiliation.

**Unlawful Harassment, Personal Discrimination, and Retaliation:** The University of Nevada, Las Vegas, affirms that students and employees are entitled to an educational and employment environment free from unlawful harassment or personal discrimination and expressly prohibits unlawful harassment or personal discrimination of any individual among the university community engaged in educational or employment pursuits based on that individual's race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, marital status, pregnancy, veteran status, or political affiliation. Further, no student or employee shall be subject to retaliation for bringing a good-faith complaint pertaining to unlawful harassment or personal discrimination or for protesting such behavior directed against another member of the university community.

**Reaffirmation of Commitment to Equal Educational and Employment Opportunity (EEO):**
The University of Nevada, Las Vegas, is committed to and will provide equality of educational and employment opportunity for all persons regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, marital status, pregnancy, veteran status, or political affiliation - except where sex, age, or ability represent bona fide educational or employment qualifications or where marital or veteran status are statutorily defined eligibility criteria for federal or state benefit programs. Further, the university seeks to promote campus diversity by enrolling and employing a larger number of minorities and women where these groups have historically been and continue to be under-represented within the university in relation to availability and may extend preference in initial employment to such individuals among substantially equally qualified candidates, as well as to veterans, Nevada residents, and current state employees seeking promotion.

This affirmation is published in accordance with 41 CFR 60 and is in keeping with Title VII & Title IX of the Civil Rights Act of 1964, as amended; Executive Order 11246; the Rehabilitation Act of 1973; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; the Civil Rights Restoration Act of 1988; Nevada Revised Statutes; and the Code and Policies of the Board of Regents of the Nevada System of Higher Education.

To ensure that equal educational and employment opportunity exists throughout the university, a results-oriented equal opportunity/affirmative action program has been implemented to
overcome the effects of past discrimination and to eliminate any artificial barriers to educational or employment opportunities for all qualified individuals that may exist in any of our programs. The university aims to achieve, within all areas of the university community, a diverse student body, faculty, and staff capable of providing for excellence in the education of its students and for the enrichment of the university community.

The University of Nevada, Las Vegas, reaffirms its commitment to equality of educational and employment opportunity in its relationships with all members of the university community and its commitment to the elimination of any documented historical and continuing underutilization of women and minorities among the student body or employee complement. The University of Nevada, Las Vegas, is committed to this program and is aware that with its implementation, positive benefits will be received from the greater utilization and development of previously underutilized human resources.

**Accreditation:** The University of Nevada, Las Vegas is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution’s accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:
Northwest Commission on Colleges and Universities
8060 165th Avenue N.E., Suite 100
Redmond, WA 98052
(425) 558-4224
www.nwccu.org

**Program Accreditations:**

1. All programs at UNLV are accredited by the Northwest Commission on Colleges and Universities (NWCCU).
2. UNLV’s international programs are approved by the Council on International Educational Exchange.

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<th>College</th>
<th>Program</th>
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<tr>
<td>School of Integrated Health Sciences</td>
<td>Dietetic Internship</td>
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<td>Athletic Training Program (B.S.)</td>
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<td>Doctor of Physical Therapy Program (DPT)</td>
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<td>Radiography, B.S.</td>
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<td>Program</td>
<td>Degree</td>
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Lee Business School
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Las Vegas and the Southwest

Las Vegas itself has many attractions. Like any other large metropolitan area, the city has fine libraries, museums, community theater, art galleries, and parks that are enjoyed and supported by more than one million local residents. As one of the fastest-growing areas in the United States, southern Nevada is an example of modern urban living.

University cultural events provide yet another form of entertainment in a city that bills itself as the "Entertainment Capital of the World." Two of the university's yearly series, the Charles Vanda Master Series and the Barrick Lecture Series, are extremely popular with students and community residents. The Charles Vanda Master Series offers visiting performers of the caliber of Isaac Stern, Andre Segovia, the London Symphony, and Itzhak Perlman. The Barrick Lecture Series brings well-known persons to campus for free public lectures on a variety of topics. Lecturers have included Walter Cronkite, Louis Rukeyser, Benazir Bhutto, Tom Wolfe, Henry Kissinger, Jimmy Carter, Cokie Roberts, and Mark Russell. The series also has featured important academicians such as Stephen Jay Gould, George Wald, Carl Sagan, Mortimer Adler, Jane Goodall, and Richard Leakey.

Of course, any college experience includes more than the intellectual stimulation of the classroom and the physical confines of the city and campus. It also takes color and character from the university's larger environment. For UNLV, this is the Southwest.

Mild desert temperatures make outdoor recreation possible throughout the year in southern Nevada. Within a 30-mile radius lie the shores of Lake Mead, massive Hoover Dam and the Colorado River recreation area, the snow-skiing and hiking trails of 12,000-foot Mount Charleston, and a panorama of red rock mountains and eroded sandstone landscapes. In addition, the city is only four to five hours by car from the beaches of southern California and the national parks of Utah and Arizona.

Las Vegas enjoys a mild year-round climate, yet there are noticeable seasonal differences. The annual average temperature is 79 degrees, but it is not unusual for the mercury to hit the 110-degree mark during the summer and dip into the 30s in the winter. Annual rainfall amounts to only 3.5 inches, much of it falling in the winter when it is snowing in the nearby mountains.

Research Centers and Service Agencies

The university has more than 60 approved centers and institutes that conduct research or provide public service. For a current listing, visit www.unlv.edu/research/centers

UNLV/CSUN Preschool: The University of Nevada, Las Vegas (UNLV) / Consolidated Students University of Nevada (CSUN) Preschool is a division
of the Department of Educational & Clinical Studies. The preschool is housed in the Lynn Bennett Early Childhood Education Center on the UNLV 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 the surrounding campus community. Preschool.unlv.edu.

**Desert Research Institute:** The Desert Research Institute (DRI) is the environmental research arm of the Nevada System of Higher Education. DRI conducts cutting-edge applied research in air, land and life, and water quality across Nevada, the United States and on every continent. With more than 500 employees and two main campuses in Reno and Las Vegas, Nevada, DRI generates $50 million in total annual revenue. DRI’s faculty members are no tenured, entrepreneurial and responsible for their own salaries from external grants and contracts. This blend of academic rigor and private-sector pragmatism has earned DRI a reputation for delivering rapid, high quality environmental science in a businesslike fashion. www.dri.edu

**Division of Educational Outreach:** The Division of Educational Outreach at UNLV is committed to creating an environment that promotes quality instruction, professional development, and community engagement. Our courses and programs are monitored through established procedures with clearly defined roles and responsibilities, and are assessed with regard to student achievement. This practice serves as a process to help identify and inspire firm education and training practices of all our offerings for the purpose of in-house reporting and meeting the NWCCU standards. edoutreach.unlv.edu/

**Division of Research and Economic Development:** UNLV's Division of Research and Economic Development is committed to creating a campus environment that supports and promotes the performance of superior research and innovative scholarly pursuits. The division is dedicated to helping university faculty, staff, and students continue building UNLV's reputation as a nationally recognized research institution. It is our intent to help "open the doors" to research for all who wish to recognize their full creative and intellectual potential. http://www.unlv.edu/research/.

**English Language Center:** The English Language Center helps students make a smooth transition from their English as a second language courses to their academic studies within chosen degree programs at UNLV. 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. http://www.unlv.edu/elc.

**International Center for Gaming Regulation:** The International Center for Gaming Regulation is aimed at bringing about pioneering change in the way gaming policy regulation is approached, a change which furthers global and local collaborative efforts to enhance the rigor with which regulation is engaged. The Center will promote research into understanding and improving regulation; work with regulators and other stakeholders worldwide to ensure they have the information, knowledge and tools to analyze and improve gaming policies and regulation in their jurisdiction; and promote appropriate policies, legislation and regulatory standards that are proportionate and consistent with international best practices.

**Language Resource Center:** The center supports the English Language Center and World Languages and Cultures in language instruction by providing computers, technical support, and a variety of multimedia tools to assist and enhance both
classroom instruction and self-study by language students. The center also supports UNLV as an open lab available to all students, staff, and faculty.lrc.unlv.edu/.

Marjorie Barrick Museum of Art: The Marjorie Barrick Museum of Art and Donald H. Baepler Xeric Garden are centrally located on UNLV’s campus (between Lied Library and Wright Hall). The Museum and Xeric Garden offer opportunities to share in the ongoing discovery of humankind’s collective heritage through an active exhibition schedule, educational programming and exciting events for all ages. Outdoors, you’ll find the 1.5-acre garden, featuring drought-tolerant plants from Australia, South America, Mexico, and the Mediterranean. www.unlv.edu/barrickmuseum.

Math Learning Center: The MLC is a collaborative Retention, Progression, Completion-driven initiative sponsored by the College of Sciences, the College of Education, Educational Outreach, the Graduate College, and the Office of the Senior Vice Provost. The MLC was established to focus on effective completions for students in gateway and college math courses.

Nevada Small Business Development Center (SBDC): The Nevada SBDC at UNLV is a statewide resource for business assistance, providing a unique array of services, expertise, and training in all areas including starting, growth, and development of a business. The Nevada SBDC also offers information and guidance in understanding and complying with environmental regulations. In addition, the Nevada SBDC provides useful information and analysis of the economy, environment, and demographic data to help businesses, government, and other organizations promote economic growth in their communities.

This program provides guidance to entrepreneurs who are contemplating the formation of new businesses by offering practical and accessible information that can provide a path through the legal, regulatory, and business landscape.

Additionally, the Nevada SBDC networks with members of a variety of local groups, including Chambers of Commerce, the tech community, and under-represented communities within the urban areas of our community.

If you would like to schedule an appointment to meet with an SBDC counselor, please call: 702-876-0003.

For more information, including a complete training calendar for the Nevada SBDC, please visit: www.nevadasbdc.org

Oak Ridge Associated Universities: Since 1993, students and faculty of the University of Nevada, Las Vegas, 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, Tenn. 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. For more information about ORAU and its programs, contact 702-895-5980.

Office of Information Technology: The office supports teaching, research, scholarly and creative production, and administration through the effective management and use of information technology resources. The services provided include development and support of applications and information systems; hardware and software maintenance, repair, and replacement in teaching and research facilities as well as student laboratories; assistance with the development of instructional programs that are less restricted by
time and place than those delivered by traditional means; access to the latest in instructional technology; and access to research computing resources. Additional information about the Office of Information Technology can be found at www.it.unlv.edu.

**Office of Diversity Initiatives:** The mission of the Office of Diversity Initiatives (ODI) is to provide leadership and support for UNLV's diversity mission: to nurture equity, diversity, and inclusiveness that promotes respect, support, and empowerment. ODI will accomplish this by facilitating policy creation and compliance; supporting strategies that enhance professional development, mentoring, recruitment and retention; as well as working in collaboration with campus and community partners to foster and encourage cultural competency. http://www.unlv.edu/diversityinitiatives.

**Summer Term:** Summer Term provides a variety of opportunities for students to achieve graduation sooner. Summer courses have the same academic content as Fall and Spring but move at a much faster pace. Many students enjoy the structure of attending courses five days a week for three to five weeks. This format enables students to immerse themselves in the subject material and advance their progress in obtaining their degree. summerterm.unlv.edu

**The Intersection:** The Intersection: Academic Multicultural Resource Center serves as a comprehensive and sustainable center for UNLV first generation college students, students of color, faculty and staff. Through targeted programing and partnerships with academic colleges, departments, community stakeholders and organizations, The Intersection is designed to cultivate success for first generation students and students of color attending UNLV.

**Thomas and Mack Legal Clinic:** The clinic is an interdisciplinary law office in which specially licensed law students work with graduate-level social work and education students under the supervision of law faculty to represent youth and adult clients in a variety of legal matters, including child welfare, education, juvenile justice, immigration, and criminal defense. The pedagogical, research and service goals of the clinic include fostering an understanding of the law in action and the interconnected nature of the problems and systems that operate in the lives of clients.

**UNLV UNIVERSITY LIBRARIES:** The University Libraries define the new academic research library – bringing people and information together in innovative ways. As UNLV emerges as a leading urban research institution, the Libraries pioneer dynamic, user-focused methods of reaching, connecting, and engaging learners. Encompassing more than 327,000 total square feet of space in six facilities, the main Lied Library and four specialized branch libraries in architecture, education, health sciences, and music offer collections, services, and expert assistance to UNLV students, faculty, staff, and community members.

The University Libraries contribute to and support learners as they discover, access, and use information effectively for academic success, research, and lifelong learning. Librarians work to prepare students not just for academic success, but for informed decision-making in careers and as citizens. Librarians work directly with students through a program of course-integrated library instruction, and with faculty on research assignment design and course preparation.
Library Resources & Services

- UNLV library collections reflect the broad range of UNLV’s academic programs, offering open stacks for browsing a collection of more than 1.2 million print volumes and more than 1.3 million electronic books.
- The Libraries' website – https://www.library.unlv.edu/ – connects users to both the print and digital collections, including more than 300 library databases, 80,000 online and print journals, and more than 1.5 million microforms, videos, CDs, maps, and government documents.
- Additional materials are available from libraries worldwide though interlibrary loan – http://guides.library.unlv.edu/interlibraryloan
- UNLV students, faculty, and staff may check out material with their RebelCard which serves as a library card for material checkout and renewals.
- Access to online resources from off-campus is easy – log in with your ACE account.
- The Textbook Reserve Program (through a partnership with CSUN) provides short-term (2-hour and 24-hour) checkout of key textbooks from many general education courses. To find items on course reserves, visit this site: https://www.library.unlv.edu/services/reserves/
- Anatomical models and 3D-molecular model kits are available for student checkout at the Main Circulation Desk in Lied Library.
- Located in Lied Library, a Career Collection offers print resources related to jobs, careers, resumes, standardized tests and more; items can be checked out for a 7-day check-out period.
- The Leisure Zone, located on the 2nd Floor of Lied Library, features a Leisure Reading Collection that consists of recently published fiction and non-fiction titles that can be checked out for 3 weeks. DVDs of feature films are also available for check out.
- Founded in 1967, Special Collections houses unique and specialized research collections on Las Vegas, Southern Nevada, the gaming industry, and UNLV in a variety of formats, including dynamic digital collections, oral history, films, maps, manuscripts, music scores, and architectural drawings. For more information on collections, events, and exhibitions, visit our website at: https://www.library.unlv.edu/speccol

Research Assistance

- Research assistance is available in a variety of way – in-person, via chat, by telephone, via text message, via email. Assistance is available at the Research Assistance Desk in Lied Library and in all four branches. Visit our website at: https://www.library.unlv.edu/ask
- Individual, personalized research consultations may be set up in advance with a specific librarian – http://guides.library.unlv.edu/appointments – librarians meet with researchers one-on-one (or in small groups) in the dedicated Research Consultation Room in Lied Library or in branch libraries. Personalized research consultations may also be done via telephone or email or virtually. The Libraries have a dedicated Research Consultation Room where librarians can meet one-on-one with
individuals or with small groups to discuss research topics and projects, help researchers identify and evaluate sources, and learn how to search library resources effectively.

- Need help with a specific subject? Every college and discipline has an assigned librarian with special subject expertise - https://www.library.unlv.edu/contact/librarians_by_subject
- The Libraries host a series of workshops each semester, on topics ranging from critical reading to creating a research poster to workshops on specific tools like RefWorks. These offerings all aim to support students with their research and education needs – to find out more, check out: https://www.library.unlv.edu/services/instruction/workshops

Library Technology

- More than 700 computers are available in Lied Library and branches and can be used to access web-based information resources as well as productivity software.
- UNLV students can log into library computers with their ACE account and password.
- The Libraries offer a wide variety of technology on loan including laptop computers, cameras, voice recorders, projectors, virtual reality headsets, digital microscopes, musical keyboards and more. To view items available for checkout, visit the website: http://guides.library.unlv.edu/equipmentcheckout
- Lied Library features the Knowledge Production Lab with specialized hardware and software to create multimedia projects and presentations.
- Self-service printing and photocopying machines are available in all library locations.

Learning Spaces

- More than 3,100 study spaces are available including individual study spaces with quiet and silent zones in all library facilities.
- A variety of group study spaces including many with computers and productivity software are available in all library facilities for group use.
- The Libraries have four classrooms dedicated to support library instruction.
- Located in Lied Library, a Graduate Commons provides dedicated work and study space for graduate students to work independently or in groups.
- In partnership with the Libraries, the Academic Success Center offers free tutoring on a drop-in basis for a variety of UNLV courses throughout the school year. For more information, visit the ASC Tutoring website at: https://www.unlv.edu/asc/tutoring
- The Book 'N Bean coffee shop is located in Lied Library.

Branch Libraries

Four branch libraries are part of the University Libraries.

- The Architecture Studies Library provides access to resources and reference assistance in the areas of architecture, building and construction, urban planning, landscape architecture, and interior design in support of the academic needs of the School of Architecture. Visit the ASL online at: https://www.library.unlv.edu/arch/
• Located in the northeast corner of the Beam Music Center, the Music Library houses a small music reference collection, more than 35,000 scores, and more than 13,000 recordings, DVDs, and other media in support of teaching, performances, and research for the School of Music. Visit the Music Library online at: https://www.library.unlv.edu/music/index.php

• The Teacher Development & Resources Library (TDRL) supports the teacher education programs within the UNLV College of Education as well as P12 educators in the Las Vegas community. With more than 30,000 items across a wide range of collections (including children’s and young adult literature, professional materials for educators, graphic novels, P12 textbooks, and activity kits), the TDRL is a leading resource center for Southern Nevada’s education community. Students and Southern Nevada educators can engage with TDRL staff members to find solutions to their teaching/educational needs and take advantage of the variety of resources, services, and expertise the TDRL offers. Visit the library online at: https://www.library.unlv.edu/tdrl

• The Health Sciences Library (HSL) is the newest branch library of the University Libraries and serves UNLV’s new School of Medicine as well as existing health sciences programs and students located at our Shadow Lane campus. The current HSL is located in two locations: 1) The Information Commons at Shadow Lane is reserved for medical school students, and 2) The library at 2040 West Charleston on the 5th Floor serves all other health sciences students, faculty, and staff of UNLV and health care practitioners in Southern Nevada. Visit the HSL online at: https://www.library.unlv.edu/hsl

University of Nevada Press: The University of Nevada Press publishes high-quality, deserving works that advance scholarly research, contribute to the understanding and appreciation of regional history and culture, and reach a wide range of academic and general readers. Publication is done in a fiscally responsible manner that reflects the highest editorial, design, and production standards. www.unpress.nevada.edu/.

Western Interstate Commission for Higher Education (WICHE): is a regional, nonprofit organization. Membership includes the 15 western states and the U.S. Pacific Islands and Freely Associated States. WICHE and its 15 member states work to improve access to higher education and ensure student success. Its student exchange programs, regional initiatives, and research and policy work allow it to assist constituents throughout the West and beyond.

Residents of WICHE states can gain affordable access to programs, states avoid costly and unnecessary duplication of programs and facilities, and colleges and universities can devote their resources to improving the quality of their educational offerings. www.wiche.edu/
Admissions Information

The University of Nevada, Las Vegas, welcomes applications from all interested students. All the admission and application requirements are subject to modification by the Nevada Board of Regents and the University of Nevada, Las Vegas and are provided here as a guideline. Please refer to our website (www.unlv.edu) for the most up-to-date requirements.

Statement of Commitment to the Recruitment of Diverse Students 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 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, it enhances the educational and interpersonal experiences of everyone in our campus community. UNLV actively encourages applicants whose racial and ethnic backgrounds are underrepresented in higher education in Nevada, who are first-generation college students, and those with demonstrated financial need. Refer to the "University Community and Libraries" section of this catalog or www.unlv.edu/about/statements to review UNLV's Reaffirmation of Commitment to Equal Educational and Employment Opportunity (EEO).

Undergraduate Application Requirements

Application Priority Consideration Dates: The application deadline dates are July 1 for fall semesters, and December 1 for spring semesters. To be assured full consideration, applications for admission should be received and completed by these dates. Completed applications will continue to be taken and considered up to the application deadline on a space-available basis. Deadline for priority consideration for financial aid is November 1 for fall semesters. Visit http://unlv.edu/admissions/freshman to view the most current dates and deadlines for domestic and international first-year students. For the most current dates and deadlines for domestic and international transfer students visit http://unlv.edu/admissions/transfer. Students are encouraged to apply well before the posted dates.

Admission Application: The online application for domestic and international applications is available through the university website. Applicants to the University of Nevada, Las Vegas, are solely responsible for submitting a completed, signed, and dated application for undergraduate admission with supporting materials and a $60 nonrefundable application fee ($95 for international students) to the Office of Admissions. All application materials, including transcripts, become the property of the university, are not returnable and cannot be reproduced or released to any party including the applicant.

Official Transcripts: High school students must submit their transcripts along with any course work in progress. Applicants who have already graduated from high school must submit their final high school transcript that includes a date of graduation. Those applicants who have taken classes at a college or university during high school or any time before their application to UNLV must submit a separate official transcript from each institution attended regardless of whether credit was earned or not.
Official academic transcripts must be submitted in the English language and must remain in the sealed envelope provided by the issuing institution(s) or provided electronically by the issuing institution(s) directly to UNLV. Applicants who have completed coursework at a non-U.S. or a non-English speaking college or university are required to have their documents evaluated and translated, if appropriate, by a National Association of Credential Evaluation Services (NACES) member. This official evaluation and translation, in addition to official copies of the documents in sealed envelopes, must be submitted to the university in order to be considered for admission. Visit www.naces.org to view a list of member organizations.

Applicants who are enrolled in another educational institution at the time of application may submit an incomplete transcript for an admission decision to be rendered. However, final high school and/or college transcripts must be submitted no later than the Friday before classes start for the applicant's term of admission.

Applicants who have attended other educational institutions may not disregard such records and make application on the basis of select college transcripts. Any applicant who gains admission on the basis of incomplete or fraudulent credentials or misrepresentation in the Application for Undergraduate Admission shall have admission and registration rescinded without refund of any fees. Refer to the NSHE Board of Regents Handbook, Title 4, Chapter 16, Section 9 for more information.

**Placement Tests:** Entering freshmen are to take the American College Test (ACT) offered by the American College Testing Program, or the Scholastic Aptitude Test (SAT) offered by the College Entrance Examination Board which will be used to determine a student's placement into English and math courses. The math and English departments also offer placement tests for students who do not feel their ACT and/or SAT test scores are representative of their abilities in math and English. Additionally, students can also use Assessment and Learning in Knowledge Spaces (ALEKS) placement test for placement into math courses. Placement testing may not be taken more than two years prior to matriculation.

Individual departments may require additional test scores for placement (e.g. Chemistry, English, Foreign Languages, Mathematics, etc.). Information regarding these examinations may be obtained from UNLV's academic departments.

**English Placement:**

In order to be placed into a college-level English course (English 101), a student must earn one of the following scores:

- an ACT English score of at least 18
- an SAT Critical Reading score of at least 500 (pre-March 2016)
• an SAT Evidence-Based Reading and Writing score of at least 480 (after March 2016)
Students whose scores are lower will be placed into English 101 Extended (two-semester course). Students without test scores or those who feel that standardized test scores do not accurately reflect their writing ability should contact the English Department for alternate placement options.

**Mathematics Placement:** In order to be placed into a college-level mathematics course, a student must achieve an ACT composite score of at least 22 or an SAT math score of at least 500 (pre March 2016) and 530 (post March 2016). New freshmen who do not obtain these scores will be required to take a math placement test prior to registration.

**Immunization Records:** Nevada state law requires that all admitted students at the University of Nevada, Las Vegas submit proof of immunization to the Office of Admissions before they may attend classes. All students regardless of age must provide documentation of immunization within the last 10 years for Tetanus-Diphtheria (TD). Students born in or after 1957 must provide documentation of immunity for two doses of live measles (Rubella), one mumps, and one Rubella vaccination. If you do not have documentation, then you will need to re-establish immunizations before you can attend classes.

Immunizations may be obtained from your physician, the UNLV Student Health Center (http://www.unlv.edu/srwc), or the local county health district in your area. In Las Vegas, immunizations can be obtained at the Clark County Health District, located at 625 Shadow Lane.

**Residency Application:** The regulations pertaining to Nevada residency for tuition purposes are established by the Board of Regents. Each applicant claiming legal residency in Nevada must submit a residency application and the supporting documentation along with their admission application. Current enrollees or graduates of a Nevada high school are exempt from this requirement. The residency application forms can be obtained from the university website (www.unlv.edu/admissions/residency) or from the Office of the Registrar.

**Requirements for International Applicants:** The University is authorized by U.S. Department of Homeland Security to admit international students on F-1 student visas. International students are subject to additional requirements that are established by the university and the U.S. Department of Homeland Security as outlined below:

1. **Proof of English Language Proficiency:** Applicants whose native language is not English must provide official proof of English proficiency to the Office of Admissions in one or more of the following ways:
   - Test of English as a Foreign Language (TOEFL) score of 13 Reading, 12 Listening, 21 Writing on the Paper-delivered Test (The William F. Harrah College of Hospitality requires 19 Reading, 20 Listening, & 24 Writing) or a score of 61 on the iBT version (The William F. Harrah College of Hospitality requires 80 with 20 in writing and the School of Nursing requires 100).
   - UNLV institutional Michigan Test of English Language Proficiency (MTELP) score of 76 paper-based or Level 3-100 computer based (The William F. Harrah College of Hospitality requires 81 paper based with 40 in writing or Level 3-120 computer based).
   - International English Language Testing System (IELTS – must be
academic version) with a minimum overall band of 6 with no band below 5.5 (The William F. Harrah College of Hospitality requires a minimum overall band of 6.5 with 6 in writing and no band below 5.5).

- Pearson Test of English Academic (PTE - must be academic version) with an overall score of 44 (The William F. Harrah College of Hospitality requires an overall score of 53 with 53 in writing and the School of Nursing requires an overall score of 68).

- Equivalent scores on other selected English proficiency exams approved by the Office of Admission.

- Completed course work in Freshman Composition equivalent to UNLV's English 101 (grade of C or better). (The William F. Harrah College of Hospitality does not accept this form of English proficiency.)

- Applicants who are from the following nations are exempt from the Proof of English Language Proficiency requirement:
  - Antigua, Australia, Bahamas, Barbados, Barbuda, Bermuda, British Virgin Islands, Canada (except Quebec), Dominica, Fiji, Irish Republic, Jamaica, New Zealand, St. Kitt & Nevis, St. Vincent & Grenadines, Singapore, Trinidad & Tobago, United Kingdom (England, Scotland, Wales, North Ireland), U.S. Virgin Islands.

Applicants who do not meet the proficiency requirements stated above may be admitted to the English Language Center (ELC) for appropriate course work prior to being admitted to an academic major. The ELC admits students with an intermediate level of English competence as evidenced by scores on approved tests of English language proficiency as well as transfer work from other institutions. Students may be conditionally admitted into the college of their choice, with matriculation in that college contingent upon satisfactory completion of the ESL program in the ELC.

1. **Certification of Finances**: Before the university may issue a Certificate of Eligibility (I-20), the Office of Admissions must receive a Confidential Financial Certification form indicating that the student has ready access to sufficient financial resources to fully meet all institutional and personal expenses while studying in the United States. The certification must be accompanied by a bank letter that has been signed and/or stamped by a bank official. Visit the Office of Admissions website at https://www.unlv.edu/admissions/international for current information and to access the form.

2. **Health Insurance**: All UNLV F-1 visa international students are required to purchase UNLV student medical health insurance regardless of other health insurance policies they may have. The requirement to purchase the UNLV student health insurance cannot be waived. International students are automatically charged health insurance premium fees when they register for classes. Optional dental coverage and vision insurance may also be purchased.

The Office of Admissions will issue the Certificate of Eligibility (I-20/SEVIS record) to undergraduate international students who have provided the required certification of finances and who are admitted to a degree-seeking program. An I-20 cannot be issued for online degree programs, for
certificate programs, or for non-degree seeking courses taken.

**Undergraduate Admission Requirements**

The minimum academic requirements for admission to the university are described below. Please note that admission to the university may not mean admission to the program of your choice. Specific academic programs may have additional entrance requirements beyond those required for admission to the university. Applicants should consult the corresponding section of this catalog to find out about additional requirements for their major of choice.

High School Students: Admission to the university requires graduation from an accredited high school with a minimum weighted grade point average of 3.00 on a 4.00 scale in the following required high school courses.

- **ENGLISH:** Emphasis on composition; rhetoric; and American, English, and world literature...........................4 units
- **MATHEMATICS:** Algebra or higher-level mathematics, including algebra I and II, geometry, analytic geometry, trigonometry, precalculus, probability and statistics and other advanced mathematics............................3 units
- **NATURAL SCIENCE:** (lab or simulation); Including biology, chemistry or physics with at least two years in a laboratory science...........................................3 units
- **SOCIAL SCIENCE STUDIES:** Including world history, geography, U.S. history, economics, government, or law.................................................................3 units

**TOTAL**........................................................................................................13 units

Students who have not completed these aforementioned required high school courses and/or have not earned a minimum grade point average of 3.00 (on a 4.00 scale) may be admitted to the university if they have earned a composite score of 1120 on the SAT (post March 2016) 1040 (pre March 2016) or an ACT composite score of 22, or earned a Nevada Advanced High School Diploma.

**Transfer Students: Except for in-state transfer students as described in the section "In-State Transfer Students,"** admission to a four-year degree program is granted to domestic and international applicants transferring from another regionally-accredited college or university provided that 24 transferable semester credits have been completed and a minimum cumulative grade point average of 2.50 has been achieved. The applicant must be in good standing and eligible to return to the educational institution last attended (i.e., the applicant cannot be on academic or behavioral suspension or be in debt to any previously attended institutions).

Applicants who have attempted 23 or fewer college credits after high school graduation are subject to the high school admission requirements previously described. The high school record must meet the minimum grade point average or other requirements as indicated in the "High School Students" section.

**In-State Transfer Students:** Applicants wishing to transfer to the University of Nevada, Las Vegas, from another institution within the Nevada System of Higher Education (NSHE) must apply for admission to UNLV through the Office of Admissions and must fulfill the same requirements as those applicants who are not enrolled within the NSHE system. However, transfer students with an Associate of Arts degree, Associate of Science degree, or Associate of Business degree from an NSHE institution only
need to have a minimum overall GPA of 2.0 for admission to the university.

**Final Enrollment Procedures:** Admission will be granted to students applying for admission while still enrolled at another institution (high school, college, or university) if their current academic record indicates that they are admissible at the time of evaluation and that they will qualify for full admission upon completion of work in progress. Full admission is granted when all final credentials from institutions previously attended have been received and evaluated by the Office of Admissions and provided the applicant still meets the minimum admission requirements. Failure to submit final documents by the deadline listed in the academic calendar may result in cancellation of admission and/or enrollment (see Readmission after Cancellation). Failure to meet the minimum admission requirements after evaluation of final course work will result in cancellation of admission and/or enrollment. Freshmen should submit a final official high school transcript indicating the date of graduation and the final semester's grades for the work in progress prior to their date of matriculation at UNLV. Transfer students should submit a final transcript for any courses completed prior to their date of matriculation at UNLV.

Students who do not enroll for the term in which they submitted a degree-seeking or non-degree-seeking application for are discontinued. Discontinued students should either defer their application (see Admission Deferment Policy) or submit a new application for admission. The deferred application or new application should be submitted with any supporting documents to the Office of Admissions and is subject to the admissions application deadlines.

**GED Recipients and Home-Schooled Students:** Applicants who received a General Equivalency Diploma (GED) are admissible if they have achieved a minimum composite score of 22 on the ACT or an 1120 (post March 2016) on the SAT. If a GED recipient has not achieved either standardized test score, they will be evaluated on a case-by-case basis by the Committee on Admission (please contact the Office of Admissions at (702)774-8658 and speak with an Admission Counselor for more detailed information). Home schooled students will be reviewed just as regular first-time freshman high school students are evaluated (see criteria previously outlined).

**Alternative Admission Policy:** The Nevada Board of Regents has authorized the university to admit each year a limited number of deserving students who do not satisfy the university's minimum admission requirements but who may be admissible through alternate means. Admission by alternative criteria is an option for those applicants who are denied admission. The criteria for admission under the alternative admission program are:

- A combination of test scores and grade point average that indicate potential for success.
- Special talents and/or abilities such as, but not limited to, the visual or performing arts or athletic abilities.
- Other evidence of potential for success.
- Improvement in the high school record.
- Overcoming adversity or special hardship.
- Other special circumstances.

Applications for alternative admission criteria are reviewed by the Faculty Senate Admissions Committee. In addition to the application procedures described earlier, an applicant for alternative admission is also required to submit the documents listed below and to meet any other educational criteria that may be required by the Office of Admissions.
1. All official transcripts indicating completion of all work in progress.

2. Official standardized test scores (ACT or SAT) or other documented evidence of the necessary capability, readiness, achievement, and motivation to be successful in university-level study. In order to be official, scores must be sent directly from the testing agency or appear on an official high school transcript.

3. A personal explanation of the circumstances of previous academic performance.

4. Two letters of recommendation from an employer, educator, or responsible official.

Students admitted by the Faculty Senate Admissions Committee are required to meet with an Academic Success Center success coach at least twice during their first semester and must achieve a 2.0 grade point average for six or more baccalaureate-level credits by the end of that semester. Students who do not meet this requirement during their first semester will also be required to meet with a success coach during their second semester to develop a success plan.

Second Baccalaureate Degree Students: An applicant who has earned one bachelor's degree from UNLV may apply for admission to earn a second bachelor's degree from UNLV according to the requirements and procedures outlined for transfer students. Students who have earned a bachelor's degree from an institution other than UNLV and students who have earned a bachelor's degree from UNLV and have had a gap in their enrollment are required to submit an application for admission and $60 ($95 for international students) non-refundable application fee. Students who have earned a bachelor's degree from UNLV with no gap in their enrollment are not required to pay the application fee.

Students are not permitted to earn two bachelor's degrees in the same specialized discipline. Information regarding the number of credits required and the course work required for a second degree may be obtained by consulting the section on Academic Policies and the section describing the desired major in this catalog.

Non-degree Seeking Undergraduate Student Status: At UNLV, any person, subject to review and approval by the University, may enroll as a non-degree seeking student for purposes of personal enrichment, professional development, or to improve their academic record in order to be reconsidered for admission after denial of admission for insufficient academic credentials. Applicants who wish to enroll as a non-degree seeking student must submit an application and $30 non-refundable application fee. Non-degree seeking students may enroll for a maximum of eight credits per semester. Although there is no limit to the total number of credits one may earn as a non-degree seeking student, no more than 24 credits may be applied toward a bachelor's degree upon admission.

High school applicants who are denied admission may enroll as non-degree seeking students. These students will be considered for admission as transfer students upon completion of 24 credits with a minimum cumulative grade point average of 2.5.

Transfer applicants denied regular admission may also enroll as non-degree seeking students. These students will be eligible for admission when the combination of their UNLV grade point average and the cumulative average of all other college or university-level course work meets the university's minimum transfer admission GPA requirement of 2.5.

Upon reaching the transfer admission requirements, these non-degree seeking students who were previously denied must submit a new application and fee in order to be reconsidered for admission.

Applicants interested in non-degree seeking graduate status should inquire with the Graduate College.
Admissions Rules and Regulations

Admission Deferment Policy: Students who are admitted to UNLV but wish to attend during a future term may be eligible to defer their admission. Students may defer their admission provided the following criteria are met:

- The student was admitted to UNLV for a fall or spring term and did not enroll (summer term excluded).
- The student submitted an application but did not complete the application process.

NOTE: Deferment must be declared by the appropriate deadline posted at unlv.edu/admissions/after-applied and deferments are only granted for up to one calendar year.

Students who fall into either of the categories above are eligible to defer and must complete the deferment process and pay the $60 nonrefundable deferment fee ($95 for international students):

Denial of Admission: Applicants who do not meet the university’s regular admission requirements will be denied admission and may appeal to the Faculty Senate Admission Committee to be considered for admission under alternative criteria (see Alternative Admission Policy). Applicants denied admission as regular students may also enroll as non-degree seeking students until such time as a grade point average is achieved which meets the university’s transfer student requirements (see Non-Degree Seeking Undergraduate Student Status section).

Readmission: Fully admitted degree-seeking students who stop out for more than two semesters (excluding summer) are discontinued from the university and are required to submit an application for re-admission. The application should be submitted with any supporting documents to the Office of Admissions and is subject to the admissions application deadlines.

Credit Evaluation Policies

Freshmen and transfer applicants to the University of Nevada, Las Vegas may be awarded credit for previous college or university course work, certain nationally administered examinations, correspondence and extension work, and military service according to policies established by the university and the Board of Regents of the Nevada System of Higher Education. The policies are as indicated in this section.

Previous College or University Course Work: Students who are transferring baccalaureate-level course work from regionally accredited institutions of higher education ordinarily will be granted credit for work completed that is equivalent to courses offered at the University of Nevada, Las Vegas, or that can, upon petition, be applied to a degree in the general education core or as general elective credit. The amount of credit awarded is based upon university regulations and the guidelines below:

1. Regionally Accredited Institutions: To be granted credit, transfer course work must have been earned at an institution accredited by one of the eight regional accrediting associations listed below and recognized by the Council of Higher Education Accreditation (CHEA), or they must have been earned at an institution that is a candidate for accreditation by one of these associations.
   A. Higher Learning Commission (HLC)
   B. Middle States Association of College and Schools (MSA), Commission on Higher Education Accreditations
   C. New England Association of Schools and Colleges (NEASC-CIHE), Commission on Institutions of Higher Education
   D. New England Association of Schools and Colleges (NEASC-CTCI), Commission on Technical and Career Institutions
   E. Northwest Commission on Colleges and Universities (NWCCU)
   F. Southern Association of Colleges and Schools (SACS), Commission on Colleges
G. Western Association of Schools and Colleges (WASC-ACCJC), Accrediting Commission for Community and Junior Colleges
H. Western Association of Schools and Colleges (WASC-ACSCU), Accrediting Commission for Senior Colleges and Universities

2. Nationally Accredited Institutions: Generally, credits earned at nationally accredited institutions will not be accepted by UNLV. However, credits earned in specialized institutions offering associate or bachelor degrees that are accredited (or that are candidates for accreditation) by one of the six national accrediting associations listed below and recognized by the Council for Higher Education Accreditation (CHEA) will be evaluated on an individual, course-by-course basis if requested by the student by means of petition to the Admissions Committee of the UNLV Faculty Senate.

1. Accrediting Commission of the Distance Education and Training Council (DETC)
2. Accrediting Council for Independent Colleges and Schools (ACICS)
3. Association for Biblical Higher Education (ABHE), Commission on Accreditation (formerly the Accrediting Association of Bible Colleges, or AABC)
4. Association of Advanced Rabbinical and Talmudic Schools (AARTS)
5. Commission on Accrediting of the Association of Theological Schools in the United States and Canada (ATS)
6. Transnational Association of Christian Colleges and Schools Accreditation Commission (TRACS)

Transfer credit from any of the six CHEA-recognized nationally accredited institutions may be granted for courses that are comparable to those offered by UNLV or by other regionally accredited colleges and universities, provided the courses are relevant to the student’s academic program. A petition approved by the Admissions Committee of the UNLV Faculty Senate is required to grant transfer credit from the above nationally accredited institutions.

3. Unaccredited Institutions: Credits earned in U.S. institutions of higher education that are not accredited by one of the regional or national accrediting associations recognized by the Council for Higher Education Accreditation (CHEA) are not accepted by the university. The policies permitting advanced course placement and the earning of credit for nontraditional learning (see Nontraditional Credit) provide adequate opportunities for the objective evaluation of knowledge acquired through a variety of learning experiences, including military schools.

4. Duplicate or excess credit is not counted toward a UNLV degree.

5. Transferable baccalaureate-level credit earned at a regionally accredited community or junior college may be applied toward a UNLV bachelor's degree.

6. Although transferable credit may be awarded at the point of admission, there is no guarantee that all transferable course work will be applicable to every degree program. However, course work that is deemed transferable at the point of admission will, at a minimum, be eligible for general elective credit.
**Nontraditional Credit**

The following programs offer students the opportunity to earn credits through examination and military service. The maximum number of credits that may be applied toward a UNLV degree from these programs is 60. An official copy of appropriate grades/scores must be sent to the Office of Admissions directly from the school, testing service, or reporting agency.

**Advanced Placement**: Advanced placement and/or credit may be granted to entering students who have achieved appropriate scores on one or more of the Advanced Placement Tests offered by the College Entrance Examination Board (see list below). The tests are administered each year in May and are available to all high school students who have taken advanced-placement courses in high school and to other interested students who feel they have knowledge of the given subject being tested.

Students who receive advanced placement credit may progress to more advanced courses. Students receiving credit for advanced placement may apply these credits toward the total required for a degree. As a result, it is possible to hasten the completion of degree requirements or to enroll for course work in greater depth and breadth than would otherwise be possible.

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<th>AP Subject</th>
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<td>Biological Sciences</td>
<td>5</td>
<td>8</td>
<td>BIOL 189T and either 196T or 197T with Advisor Evaluation</td>
</tr>
</tbody>
</table>
Can place into BIOL 103 or equivalent for laboratory credit. Please see Biological Sciences catalog section and confer with the College of Sciences Advising Center for additional information about use of honors courses, SAT scores, AP courses and AP scores for Biological Sciences placement.

### Chemistry

<table>
<thead>
<tr>
<th>Chemistry Science</th>
<th>3</th>
<th>4</th>
<th>CHEM 121A</th>
</tr>
</thead>
</table>

Can place into CHEM 123 for laboratory credit.

<table>
<thead>
<tr>
<th>Chemistry Science</th>
<th>4-5</th>
<th>8</th>
<th>CHEM 121A and CHEM 122A</th>
</tr>
</thead>
</table>

### English

| English Language & Composition | 3-5 | 3 | ENG 101 |
| English Language & Literature | 3-5 | 3 | ENG 101 |

### Environmental Science

| Environmental Science | 4-5 | 3 | ENV 101 |

### Foreign Languages and Cultures

| Language & Culture | 3 | 3 | Equivalent to 113; placement to 114 |
| Language & Culture | 4-5 | 6 | Equivalent to 113 and 114; placement to 213 |
| Language & Literature | 3 | 3 | Equivalent to 113; placement to 114 |
| Language & Literature | 4-5 | 6 | Equivalent to 113 and 114; placement to 213 |

### Geography

| Human Geography | 3-5 | 3 | General Elective - Geography |

### History

| American History | 3 | 3 | HIST 101 or HIST 102T* |
| American History | 4-5 | 6 | HIST 101 and HIST 102T* |

*These scores satisfy the U.S. Constitution requirement but not the Nevada Constitution requirement and can be used for any HIST 102 requirement.
European History 3 3 HIST 106T**

European History 4-5 6 HIST 106T** plus 3 credits
General Elective - History

**These scores do not satisfy the U.S. Constitution requirement but can be used for any HIST 106 requirement

World History 3-5 3 General Elective - History

Interdisciplinary

Research 3-5 3 General Elective

Seminar 3-5 3 General Elective

Mathematics

Calculus AB 3-5 4 MATH 181

Calculus BC 3 4 MATH 181

Calculus BC 4-5 8 MATH 181 and MATH 182

Music

Theory 3-5 3 General Elective - Music

Physics

Physics 3 3 Gen Ed (Science without Lab)

Physics 4-5 8 PHYS 151T and PHYS 152T

Students must show satisfactory completion of laboratory work equivalent to PHYS 151 and PHYS 152. Inadequate lab work requires the student to take the labs in either one semester or over two semesters. Credits in PHYS 151 and 152 (8 credits) will be awarded only after the student has completed the lab requirements.

Physics B: Physics Algebra and Trigonometry 3 3 Gen Ed (Science without Lab)

Physics C: Mechanics 3 3 Gen Ed (Science without Lab)

Physics C: Mechanics 4-5 3 PHYS 180

Student must show satisfactory completion of lab work equivalent in order to earn 1 credit in PHYS 180L

Physics C: Electricity & Magnetism 3 3 GenEd (Science without Lab)

Physics C: Electricity & Magnetism 4-5 3 PHYS 181

Student must show satisfactory completion of lab work equivalent in order to earn 1 credit in PHYS 181L

Political Science

U.S. Government and Politics 3-5 3 Gen Ed (U.S. Constitution)

This score does not satisfy the Nevada Constitution requirement

Comparative Government and Politics 3-5 3 PSC 211

This score does not satisfy the U.S. and Nevada Constitution requirements

Psychology

Psychology 3-5 3 PSY 101

Statistics

Statistics 3-5 3 STAT 152
**College Level Examination Program:** Credit may be granted for the achievement of a satisfactory score on the College Level Examination Program's (CLEP) subject examinations. Satisfactory achievement on the subject examinations is defined as a score of 50 or above.

In general, CLEP examinations should be completed prior to the conclusion of the second semester at the university to avoid duplication of first-year introductory courses.

**UNLV courses or requirements satisfied through CLEP Scores**

<table>
<thead>
<tr>
<th>CLEP Subject</th>
<th>Min. Score</th>
<th>Credits</th>
<th>Courses Satisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting, Intro</td>
<td>50</td>
<td>3</td>
<td>ACC 201</td>
</tr>
<tr>
<td>Algebra, College</td>
<td>50</td>
<td>3</td>
<td>MATH 124</td>
</tr>
<tr>
<td>Algebra-Trigonometry, College</td>
<td>50</td>
<td>3</td>
<td>Gen Ed (Math)</td>
</tr>
<tr>
<td>American Government</td>
<td>50</td>
<td>3</td>
<td>Gen Ed (U.S. Constitution)</td>
</tr>
<tr>
<td>American History</td>
<td>50</td>
<td>3</td>
<td>General Elective - History</td>
</tr>
<tr>
<td>American History II</td>
<td>50</td>
<td>3</td>
<td>General Elective - History</td>
</tr>
<tr>
<td><em>American Literature</em></td>
<td>50</td>
<td>3</td>
<td>General Elective - English</td>
</tr>
<tr>
<td>*Analysis &amp; Interpretation of Literature w/ Essay</td>
<td>50</td>
<td>3</td>
<td>General Elective - English</td>
</tr>
<tr>
<td>Biology</td>
<td>50</td>
<td>4</td>
<td>BIOL 189</td>
</tr>
<tr>
<td>Business Law, Intro</td>
<td>50</td>
<td>3</td>
<td>General Elective - Business</td>
</tr>
<tr>
<td>Calculus w/elementary functions</td>
<td>50</td>
<td>3</td>
<td>Gen Ed (Math)</td>
</tr>
<tr>
<td>College Mathematics</td>
<td>50</td>
<td>3</td>
<td>MATH 120</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Score</th>
<th>Credits</th>
<th>Courses Satisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology, Intro</td>
<td>50</td>
<td>3</td>
<td>General Elective - Educational Psychology</td>
</tr>
<tr>
<td>English Composition</td>
<td>50</td>
<td>3</td>
<td>ENG 101</td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>50</td>
<td>3</td>
<td>General Elective - English</td>
</tr>
<tr>
<td><em>English Literature</em></td>
<td>50</td>
<td>3</td>
<td>Gen Ed (Humanities)</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>50</td>
<td>3</td>
<td>ENV 100</td>
</tr>
<tr>
<td>French</td>
<td>50</td>
<td>6</td>
<td>FREN 113 &amp; 114</td>
</tr>
<tr>
<td>Freshman College Comp</td>
<td>50</td>
<td>3</td>
<td>ENG 101</td>
</tr>
<tr>
<td>General Biology Physical Science</td>
<td>50</td>
<td>3</td>
<td>Gen Ed Science without Lab</td>
</tr>
<tr>
<td>General Chemistry Physical Sciences</td>
<td>50</td>
<td>3</td>
<td>Gen Ed Science without Lab</td>
</tr>
<tr>
<td>German</td>
<td>50</td>
<td>6</td>
<td>GER 113 &amp; 114</td>
</tr>
<tr>
<td>History of the U.S. I (U.S. Constitution)</td>
<td>50</td>
<td>3</td>
<td>HIST 101</td>
</tr>
<tr>
<td>History of the U.S. II</td>
<td>50</td>
<td>3</td>
<td>HIST 102T**</td>
</tr>
<tr>
<td>Humanities</td>
<td>50</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>50</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>Information Systems &amp; Comp App</td>
<td>50</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>Macroeconomics, Intro</td>
<td>50</td>
<td>3</td>
<td>ECON 103</td>
</tr>
<tr>
<td>Microeconomics, Intro</td>
<td>50</td>
<td>3</td>
<td>ECON 102</td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>50</td>
<td>3</td>
<td>Gen Ed (Math)</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>50</td>
<td>3</td>
<td>MGT 301</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>50</td>
<td>3</td>
<td>MKT 301</td>
</tr>
<tr>
<td>Subject</td>
<td>Min. Score</td>
<td>Credits</td>
<td>Courses Satisfied</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------------</td>
<td>---------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>Psychology, Intro</td>
<td>50</td>
<td>3</td>
<td>PSY 101</td>
</tr>
<tr>
<td>Sociology, Intro</td>
<td>50</td>
<td>3</td>
<td>SOC 101</td>
</tr>
<tr>
<td>Spanish</td>
<td>50</td>
<td>6</td>
<td>SPAN 113 &amp; 114</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>50</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>Western Civilization I</td>
<td>50</td>
<td>3</td>
<td>HIST 105</td>
</tr>
<tr>
<td>Western Civilization II</td>
<td>50</td>
<td>3</td>
<td>HIST 106T**</td>
</tr>
</tbody>
</table>

*Students with these scores may petition the English Department to satisfy the English World Literature requirement of the UNLV General Education Core Curriculum.

**Course denotes that a component of the course (US or NV constitution) is missing and that the course can be used to fulfill humanities General Education and HIST 102 or 106 requirements but cannot fulfill US or NV Constitution requirements.

International Baccalaureate: Credit may be awarded for credit for each higher-level examination passed at a level of 4 or above.

**UNLV courses or requirements satisfied through International Baccalaureate**

<table>
<thead>
<tr>
<th>IB Subject</th>
<th>Min. Score</th>
<th>Credits</th>
<th>Courses Satisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (U.S. Constitution)</td>
</tr>
<tr>
<td>Anthropology, Social &amp; Cultural</td>
<td>4</td>
<td>3</td>
<td>ANTH 101</td>
</tr>
<tr>
<td>Arabic</td>
<td>4</td>
<td>6</td>
<td>GER 113 &amp; 114</td>
</tr>
<tr>
<td>Business and Management</td>
<td>4</td>
<td>3</td>
<td>MGT LDELEC (Management lower division elective)</td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
<td>4</td>
<td>BIOL 189</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
<td>4</td>
<td>Gen Ed (Additional Science-non lab)</td>
</tr>
<tr>
<td>Chinese</td>
<td>4</td>
<td>6</td>
<td>CHI 113 &amp; 114</td>
</tr>
<tr>
<td>Computer Science</td>
<td>4</td>
<td>3</td>
<td>CS LDELEC (Computer Science lower division elective)</td>
</tr>
<tr>
<td>Design Technology</td>
<td>4</td>
<td>3</td>
<td>AAD LDELEC (Architecture Design lower division elective)</td>
</tr>
<tr>
<td>Economics</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (Social Science)</td>
</tr>
<tr>
<td>European History</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (Humanities)</td>
</tr>
<tr>
<td>English Literature</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (Humanities)</td>
</tr>
<tr>
<td>Economics: Macroeconomics</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (Social Science)</td>
</tr>
<tr>
<td>Economics: Microeconomics</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (Social Science)</td>
</tr>
<tr>
<td>English Composition</td>
<td>4</td>
<td>3</td>
<td>ENG 101</td>
</tr>
<tr>
<td>French</td>
<td>4</td>
<td>6</td>
<td>FREN 113 &amp; 114</td>
</tr>
<tr>
<td>Geography</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (Social Science)</td>
</tr>
<tr>
<td>Hindi</td>
<td>4</td>
<td>6</td>
<td>Gen Ed (Humanities &amp; International)</td>
</tr>
<tr>
<td>History</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (Humanities)</td>
</tr>
<tr>
<td>History of Americas</td>
<td>4</td>
<td>3</td>
<td>Gen Ed (U.S. Constitution)</td>
</tr>
<tr>
<td>Japanese</td>
<td>4</td>
<td>6</td>
<td>JPN 113 &amp; 114</td>
</tr>
<tr>
<td>Korean</td>
<td>4</td>
<td>6</td>
<td>Gen Ed (Humanities &amp; International)</td>
</tr>
<tr>
<td>Math</td>
<td>4</td>
<td>3</td>
<td>Math 127</td>
</tr>
<tr>
<td>Math</td>
<td>5</td>
<td>4</td>
<td>Math 181</td>
</tr>
<tr>
<td>Music</td>
<td>4</td>
<td>3</td>
<td>MUS 121</td>
</tr>
</tbody>
</table>
Music, GR Performance 4 3 MUS LDELEC (Music lower division elective)

Music, SOL Performance 4 3 MUS LDELEC (Music lower division elective)

Physics 4 4 Gen Ed (Additional Science-no lab)

Philosophy 4 3 PHIL 101

Psychology 4 3 PSY 101

Spanish 4 6 SPAN 113 & 114

Theater Arts 4 3 THTR 100

Visual Arts 4 3 Gen Ed (Fine Arts)

DANTES: Credit may be awarded for credit for each examination passed at the minimum score or requirement needed for that particular exam. Official transcripts of a student's exams may be presented to appropriate departments to determine whether performance satisfies specific university, college, or department requirements. Departments may evaluate exams individually or establish equivalent grade policies. The department that offers the UNLV course will determine if the exams satisfies a university requirement. If the requirement is programmatic, the department and college offering the program will make the determination.

Correspondence, Extension, and U.S. Armed Forces Institute Courses: The university awards up to a maximum of 15 semester hours of credit for acceptable correspondence, extension, or USAFI courses. Credit awarded for such work is not considered resident credit.

Military Service: Honorably discharged veterans having served in the U.S. military service may, upon request, be granted physical education credit. To obtain credit, a copy of the Report of Separation, Form DD 214, should be presented to the Office of Admissions when applying for admission. A maximum of four semesters will be awarded. Please note that this credit is not considered "resident credit" nor is it considered credit from a four-year institution.

Servicemembers Opportunity Colleges: UNLV has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 1,275 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As a SOC member, UNLV recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences. SOC has been developed jointly by educational representatives of each of the Armed Services, the Office of the Secretary of Defense, and a consortium of 13 leading national higher-education associations. It is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community Colleges (AACC).

UNLV will NOT accept the following types of credit:

- Credit awarded by post-secondary institutions for life experience.
- Credit awarded for courses taken at non-collegiate institutions unless otherwise stated above (e.g., governmental agencies, corporations, industrial firms, etc.).
- Credit awarded by post-secondary institutions for non-credit courses, workshops and seminars offered by other post-secondary institutions as part of continuing education programs.
Nevada System of Higher Education
Transfer Rights and Responsibilities for Students and Institution

Transfer credit for courses taken at other NSHE Institutions is governed by policies established in the Board of Regents Handbook, Title 4, Chapter 14, Sections 13, 14 and 15. For transferring course work from other NSHE institutions

A. The completion of the associate of arts, associate of science, and associate of business degree at a community college automatically fulfills the lower-division general education requirements at any other NSHE institution (Section 13.1.a).

B. Baccalaureate level courses included as part of the associate of arts, associate of science, or associate of business degree will transfer to any other NSHE institution at a minimum as general elective credit (Section 13.1.d).

C. Completion of the associate of arts, associate of science, or the associate of business degree does not guarantee satisfaction of all state college or university lower-division requirements except for the lower-division general education requirements (Section 13.1.e)

D. All undergraduate courses in the NSHE must be common course numbered with equivalent courses offered throughout the System. An NSHE transfer guide or common course numbering master file shall be maintained by the Office of the Chancellor and published on the Web. (Sections 14.1 and 14.2)

E. Each institution shall determine the acceptability of general elective transfer credits, and departmental, college, or other requirements or equivalents shall be forwarded to the appropriate department or college for course evaluation. If general elective credit is granted by one institution, then all institutions shall accept the credit. Appropriate consultation with the faculty is encouraged throughout the evaluation process (Section 15.4).

In Title 4, Chapter 14, Section 15.12, the Board of Regents mandated that there be a NSHE website outlining the transfer process and protections given to baccalaureate degree-seeking students. The following presents the policies and procedures that govern student transfers between NSHE institutions. It is intended to inform students of their rights and responsibilities and affirm institutional responsibilities. Students and institutional representatives should follow these policies when making transfer-related decisions.

Student Rights

Students have the right to:

- Receive automatic fulfillment of lower-division general education requirements at the universities, state college, and community colleges that offer select baccalaureate degrees upon completion of an Associate of Arts, Associate of Science, or an Associate of Business degree from a NSHE community college.

- Access information from the community colleges, state college, and universities about their transfer admission requirements, including documents required for admission, housing, and information about the institution’s costs, financial aid, and student services.

- Access information about the transfer of specific courses, credit hours, grades, and degree requirements. This includes information about transferring courses with grades below a "C," courses students may have repeated, and credit previously granted by examination.

- Access and receive admission and transfer-related decisions in writing (electronic or paper) specifically:
  - Acceptance by the community colleges (limited access programs only), state college, and the universities.
  - Evaluation of courses and credits accepted for transfer credit and their course equivalencies, if applicable.
  - Outline of transfer courses and requirements which the transferred courses or credits will satisfy for the degree or program sought.
  - Analysis of the number of semester credits required to complete a degree in the chosen major program of study.
The NSHE institution’s appeals process for transfer-related decisions.

· Appeal any NSHE institution's transfer-related decision. The appeal process will be developed and maintained by each NSHE institution and published on the institutions' websites.

· Elect to graduate under the course catalog graduation requirements under any of the following options, provided that the course catalog at the time of graduation is not more than ten years old:
  o The course catalog of the year of enrollment in a baccalaureate level course/program at a NSHE community college (valid transfer contract may be required.)
  o The course catalog of the year of transfer into a baccalaureate level program at the universities, state colleges, or community colleges that offer select baccalaureate degrees.
  o The course catalog of the year of graduation from a NSHE institution.

Warning: Changing majors may change the course catalog and graduation requirements, which may increase the time to degree completion.

Notice: Students have all the above rights and any others as summarized in the Summary of Board of Regents Transfer Policies. The summary can be accessed at the NSHE website at http://system.nevada.edu. Paper copies of this document are available upon request of the institution's admission office.

Student Responsibilities
Students have the responsibility to:

· Understand the transfer policies and procedures of the institution they are considering for transfer. Students should seek information from the institution they are transferring to regarding: core curriculum, prerequisites, major program requirements, degree requirements, admissions, financial aid, scholarships, housing, deadlines, restrictions, and other transfer-related criteria.

· Complete all materials required for application and submit the application on or before the published deadlines.

· Research how courses are applicable to degree and major requirements.

· Understand that if they change their major, not all courses taken will necessarily apply to their new major.

· Plan ahead and realize that appointments with advisors are necessary.

· Understand that after a break in their enrollment, status as an admitted student may be affected.

NSHE Institution Responsibilities
NSHE institutions will:

· Make transfer-related policies and procedures available on their websites.

· Make answers to frequently asked questions about transfer issues accessible for students and provide opportunities for appropriate follow-up appointments to students.

· Provide information on the approximate costs of attending the institution, including tuition, books and supplies, housing, and other related fees.

· Relay admission and transfer-related decisions to students in writing (electronic or paper); including information about the student's appeal rights.

· Establish and make available upon request internal appeals processes to review transfer-related issues and decisions.

· Engage in continuous, authentic dialog among NSHE institutions about transfer-related issues with the purpose of solving the challenges before they negatively impact students.
Academic Policies

It is solely the student’s responsibility to know and follow all university policies and procedures. Academic requirements must be met before a degree is granted. These are described in the various sections of this catalog and concern such things as curricula, majors, and minors. Advisors, and academic administrators are available to help the student understand and arrange to meet these requirements; the student is responsible for knowing what requirements must be met and for completing them. At the end of any course of study, if requirements for graduation have not been satisfied, the degree will be withheld. Institutional catalogs do not constitute contractual agreement or commitments. For this reason, it is important for each student to be acquainted with all regulations, to remain currently informed throughout the college career, and to be responsible for completing all requirements.

Registration Policies

All registration activity is conducted through online registration, which is accessible through the university's website (www.unlv.edu). Registration instructions and the class schedule can be accessed through this website also.

Each student is personally responsible for completing registration during the prescribed registration period. Registration is not considered complete until all fees have been paid.

Credit Load: The university considers 12 semester credits as the minimum full-time undergraduate credit load. The maximum credits allowed during a regular semester are 17 for freshmen level, and 18 for sophomore, junior, and senior levels.

Credit Load for Non-Degree Seeking Students: Undergraduate non-degree seeking students are limited to a maximum of eight credits per semester with the exception of those students enrolled in UNLV-affiliated study abroad programs, in which case the maximum is 18 credits per semester. Individual exceptions to this policy may be made on a case-by-case basis by petition to the dean of the Academic Success Center. Appeal of negative decisions may be taken to the UNLV Academic Standards Committee. A total of no more than 24 credits earned while a non-degree seeking student may be applied to an undergraduate degree. The dean of a college or the Faculty Senate Academic Standards Committee may reduce a student’s registration to less than the normal academic load if the student failed to earn credit in any course the previous semester. Late registrants may also be subject to credit limitations.

Credit Load for International Students: International students are required to register for and complete a full credit load (12 credits for undergraduates, nine credits for graduate students, and six for graduate assistants) each fall and spring semester to maintain their legal status as F-1 visa students with the Department of Homeland Security. International students may use only three credits of on-line course work towards the full credit load minimum. Federal regulations governing the full course load requirement also apply to the summer semester if it is the student’s first semester at UNLV.

Summer Credit Load: Six credits in a five-week session is considered a full load. Loads above this cap will require an overload petition.

Credit Overload: Freshmen registering for more than 17 semester credits must have the approval of their advisor and dean. Sophomores, juniors, and seniors registering for more than 18 semester credits must have the approval of the advisor and dean. Petition forms for credit overloads may be obtained from the department offices and should be filed with the Office of the Registrar prior to registration. An overload petition must be approved and be on file with the Office of the Registrar in order to exceed the number of credits allowed for a given semester or session.

Excess Credits: For implications for coursework taken beyond the minimum credit requirements for a degree, without earning a degree, please see Excess Credit Fee under the Fees section of this catalog.

Late Registration: Students who fail to complete their registration before the semester begins may register during the period of late registration. Any change in registration must be completed and paid for before the
close of late registration. Students may freely add and drop classes, or switch sections, under late registration which begins on the first day of classes and ends at the end of the fifth day of classes. Students may add or swap classes with time-period permission through the second week of the semester. The student will accrue late fees if:

1. A student waits until the late registration period to pay all their tuition and/or fees,
2. The total number of credits accumulated by the end of this period exceeds the number of credits accumulated (and paid for) by the end of the Friday before the start of classes.

Prerequisites: Course prerequisites are conditions that must be met before registering in a particular course. A prerequisite might be another course, a test score, a particular standing (junior, senior, etc.), and/or having declared a particular major.

Corequisites: Course corequisites are conditions that need to be met during the same semester that a course is being taken. In most cases, the corequisite is a lab or a discussion section. Students should enroll in the corequisite, if one exists, at the same time when attempting to enroll in the course itself.

Auditing Classes: Students who choose not to earn any credit or grade for a particular class can audit the class.

Changing Credit to Audit: Students may change from credit to audit until the end of the drop period for a class.

Changing Audit to Credit: Students may change from audit to credit until the end of the late-registration period. In order to audit a class or make any credit to audit or audit to credit changes, students need to contact the Office of the Registrar.

Dropping Classes: A student has the opportunity to drop a course up to the drop date identified in the academic calendar (which is 60% into the course). No drops will be allowed after the last day to drop or (withdraw). Those students who drop after the end of late registration will be assigned a withdraw grade, W, which will appear on the transcript but will not be calculated in the GPA. A grade of F will be recorded for a student who stops attending class and fails to officially drop or (withdraw). A student who has officially dropped a class and who is no longer registered for credit or for audit is ineligible for further attendance in that class. If a student fails to properly drop or withdraw from classes, he or she will be subject to failing grades.

Withdrawal from University: Students who wish to withdraw from all classes must visit or contact the Office of the Registrar prior to the last day to drop or withdraw for any given semester. If a student fails to properly drop or withdraw from classes, the student will be subject to failing grades.

Cancellation of Withdrawal: A student may petition to cancel a withdrawal from the university prior to the last day to drop or withdraw for that particular semester. A petition form for this purpose may be obtained from the Faculty Senate Website. A student who wants to re-enter the university during a subsequent semester must go through the admissions process.

Undergraduates Taking Graduate-Level Courses: Undergraduates who wish to enroll in graduate courses must have accumulated a minimum of 90 semester hours (see unit of credit below) of credit, with a grade point average of at least 3.00. Undergraduate students admitted to the Honors College must have accumulated a minimum of 45 semester hours of credit with a grade point average of at least 3.00. All undergraduate students wishing to take a graduate-level course must complete an "Approval for an Undergraduate to Enroll in a Graduate (600-700) Level Course" form, obtain the necessary signatures, and have it approved by the Graduate College prior to registration. No more than six hours of graduate-level courses will be allowed during one semester.

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

**Administrative Drop:** An administrative drop may be initiated at the discretion of the instructor, who will record circumstances. The approval of the dean of the college offering the course is required. Prior to a decision, the dean will consult with the student and other parties as appropriate. A request for an administrative drop must be reviewed and processed by the Office of the Registrar. It is the instructor or department’s responsibility to notify the student. If the request for an administrative drop is not received by the drop date, the student will be subject to a grade for the course. Deadlines and grades are the same as for a drop initiated by the student and are based on the date received at the Office of the Registrar.

Students may appeal the administrative drop to the Faculty Senate Academic Standards Committee and the Executive Vice President and Provost. Serious cases of misconduct, as defined by the Rules and Disciplinary Procedures for Members of the University Community, will be referred to the administrative officer of the rules for appropriate action.

**Enrollment After Late-Registration Period:** Adding or switching classes after the late-registration period is allowed primarily to adjust for extenuating circumstances beyond the student’s control.

After the late-registration period is over, changes may be made only when the university deems the circumstances sufficiently extraordinary to warrant an exception.

**Cancellation of Registration:** The registration of a student who is ineligible to attend the university is subject to immediate cancellation.

The university also reserves the right to cancel the registration of a student whose attendance at the university, at the review of the appropriate administrative officials, would not be mutually beneficial to that person and to the university.

**Cancellation of Classes:** The university reserves the right to cancel any class in which the enrollment is insufficient to warrant the offering of the course or for reasons beyond the university's control. The academic department offering the class will notify those registered of the cancellation.

**Class Attendance Policy:** Registration in a class obligates the student to be regular and punctual in class attendance. Students who without previous arrangement with the instructor or department fail to attend the first two class meetings of a course that meets multiple times per week or the first meeting of a class that meets one time per week may be dropped from the course. Nonattendance for a web-based course shall be defined as failure to log onto WebCampus or other instructor-designed website within one week of the course start date without previous arrangements with the instructor or department. Nonattendance does not release the student from the responsibility to officially drop any course for which they have enrolled and choose not to complete, nor from financial obligation to pay for the course.

**Class Absences:** There are no official absences from any university class. It is the student’s responsibility to consult with the course instructor regarding absences from their class. Students may be dropped from classes for nonattendance during the first week of instruction.

It is the policy of the Nevada System of Higher Education to be sensitive to the religious obligations of its students. Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The makeup will apply to the religious-holiday absence only. It shall be the responsibility of the student to notify the instructor within the first 14 calendar days of the semester of his or her intention to participate in religious holidays that do not fall on state holidays or periods of class recess. This policy shall not apply in the event that administering the test or examination at an alternate time would impose an undue hardship on the instructor or the university that could not reasonably have been avoided.
Any student who is denied a make-up option after appropriately notifying the instructor, shall have the right to appeal that decision through the normal appeal mechanism in place.

Policy for Missed Work: Students who represent the University of Nevada, Las Vegas at any official extracurricular activity shall have the opportunity to make up any assignments or examinations missed as a result of this event. It is the responsibility of the student to provide official written notification to the instructor of the course(s) at the earliest time possible of his or her intention to participate in a university-sponsored event but no less than one week prior to the date of the missed class(es). This policy shall not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the university that could reasonably have been avoided. There should be good-faith effort by both instructor and student to come to a reasonable resolution. When disagreements regarding this policy arise, they can be appealed to the department chair, dean of the college, and the Faculty Senate Academic Standards Committee. For purposes of definition, extracurricular activities may include, but are not limited to, intercollegiate athletics, band, drama, forensics, recruitment, or any other activity sanctioned by the dean and/or the Executive Vice President and Provost.

Records Changes

Change of Address: Any change of address should be reported immediately through the online registration system. Any university correspondence mailed to the last address provided by the student will discharge the university from all responsibility for notification.

Change of Name or Gender: Students may change their university records by completing the NSHE Request to Change Personal Identification Data form and submitting copies of the appropriate supporting documentation.

Student Classifications

Non-Degree Seeking Student: A non-degree seeking student is limited to a maximum of eight credits or the equivalent per semester, with the exception of those students enrolled in UNLV-affiliated Study Abroad programs in which case the maximum is 18 credits per semester. Individual exceptions to this policy may be made on a case-by-case basis by petition to the Dean of the Academic Success Center. Appeal of negative decisions may be taken to the UNLV Academic Standards Committee. A maximum of 24 credits earned while a non-degree seeking student may be applied toward a baccalaureate degree. An international student may not receive an I-20 form to maintain F-1 visa status by enrolling as a non-degree student.

Student Standing: Student standing is determined by the number of semester hours a student has completed. The hours required for each classification are indicated below.

Freshman 29 or fewer credits
Sophomore 30-59
Junior 60-89
Senior 90 or more credits

Grades

Grades: The following grade symbols are used in reporting and recording a student’s proficiency in university courses:

A – Superior
B – Above average
C – Average
D – Below average
F – Failing. Failed courses count as credits attempted.
S – Satisfactory
U – Unsatisfactory
X – Hold grade
AD – Audit
I – Incomplete (see below)
W – Withdrawn (issued for a drop after the end of late registration)

Unit of Credit: The unit of credit, one semester hour, is generally defined as one 50-minute lecture per credit per week for a 15-week semester, corresponding to 12.5 hours per credit of lecture. Two or three laboratory hours per week, depending on the amount of outside preparation required, usually carries the same credit as one lecture semester hour. Please note that graduate courses that are cross-listed with undergraduate courses will require a
graduate student to complete additional work to fulfill graduate-level course requirements as indicated on the course syllabus. This measure is established by 34 CFR §600.2, and specifically defined in 34 CFR §668.8 (I) (i) for semester hour institutions. The UNLV Registrar’s office, as a participant in the University’s curriculum process, ensures that all courses offered meet this requirement as established in 34 CFR §600.24.

**Incomplete Grade**: The grade of I — incomplete — can be granted when a student has satisfactorily completed at least three-fourths of the semester but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. A student who receives an I is responsible for making up whatever work was lacking at the end of the semester. The incomplete work must be made up before the end of the following regular semester. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

To report the course grade, the instructor submits a grade change. Note: Grade changes will not be accepted if delivered by the student.

**Satisfactory/Fail Grading**: Certain courses are offered only on a satisfactory/fail basis, whereby the student will receive a grade of S or F rather than be graded on the ABCDF scale. A limited number of courses are offered on this S/F basis. The grade of S is not used in computing the grade point average; F grades are included in averages.

**Grade Points and Grade Point Average (GPA)**: To facilitate the averaging of grades, the following values are assigned for one semester credit hour of each grade:

<table>
<thead>
<tr>
<th>Point Value Grade</th>
<th>per Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
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<tr>
<td>C</td>
<td>2.0</td>
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<tr>
<td>C-</td>
<td>1.7</td>
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<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

S, I, X, W or AD are not computed.

Grade point average is obtained by dividing the total number of points earned by the total number of semester credit hours attempted, excluding noncredit courses and courses in which the marks of S, I, U, X, W, or AD are recorded.

**Grade Point Balance**: Grade point balance (GPB) indicates how far above or below a student is from a 2.00 GPA. To compute the GPB, points are assigned as follows:
One Credit of: Points of:

A  +2.0
A-  +1.7
B+  +1.3
B   +1.0
B-  +0.7
C+  +0.3
C   0.0
C-  -0.3
D+  -0.7
D   -1.0
D-  -1.3
F   -2.0

The grade point balance is an aid in helping students with grade deficiencies to determine what is needed to bring their GPA up to a 2.00 which is the minimum needed for graduation. As an example, a record with a GPB of -8 would require a minimum of eight hours of B (8 times +1.0) or four hours of A (4-times +2.0) to bring the GPA up to a 2.00.

**Academic Standing**

**Academic Good Standing:** Students enrolled at the University of Nevada, Las Vegas who maintain a UNLV cumulative grade point average of a 2.00 (GPB - 0 and higher) will be considered in good standing.

**University Probation:** The university will place a student on probation if the UNLV GPA falls below a 2.00 (GPB - 0 or lower).

**Continued Probation:** Probation will be lifted as soon as the grade point balance rises to zero or above. Continued poor academic performance that leads to a grade point balance of -15 or below will result in university suspension. It is the responsibility of students on probation to seek advice from an academic advisor.

**University Suspension:** If the grade point balance of a student already warned by probation falls to -15 or below, the university will suspend the student for a minimum of one calendar year. A suspended student will not be allowed to take any UNLV credit courses. The university will suspend only at the end of a regular fall or spring semester in which the student has been on probation. University suspension automatically suspends the student from the program and college in which he or she is enrolled. An email sent to the student’s official UNLV (Rebel) email address will discharge all university responsibility for notification.

If the student has already begun courses in summer session, I at the time that a suspension is processed the courses in summer session I may be completed for credit. Students will be dropped from summer session II and III courses. Credits earned in Summer Session I will not take a student off university suspension even if the grade point balance reaches above -15.

**University Readmission after Suspension:**

Students returning to UNLV after University Suspension fall under three scenarios.

1) Return Early – Students who wish to return early from suspension must do so through the Early Reinstatement process. Students are required to meet with an advisor, obtain necessary signatures, and appeal the suspension through the Faculty Senate Academic Standard Committee. Upon receipt from Faculty Senate, the Office of the Registrar will remove the suspension holds for approved appeals. Students return exactly as they were in the system at the time of suspension. No changes are made to students’ majors. Students who to decide to change their majors are required to go through the standard change of major steps with their desired major’s advising center.
2) Return in First Eligible Term after One Year – Students are eligible to return from suspension in the semester immediately following their required one-year absence (no application for readmission is required). For example, a student suspended at the conclusion of Fall 2016 would be eligible to return Spring 2018. Students are required to submit transcripts of courses taken elsewhere while on suspension. Students are required to meet with an academic advisor (the advising center will remove suspension holds upon meeting with students and creating a plan for a successful return). Students return exactly as they were in the system at time of suspension. No changes are made to student's major. Students who desire to change their major are required to go through the standard change of major steps with their desired major's advising center.

3) Return After First Eligible Term - Students who return from suspension at any point past the semester immediately following their one-year absence are discontinued for nonenrollment and must reapply to UNLV. For example, a student suspended in Fall 2016 who chose not to return in Spring 2018 would need to reapply for any term after Spring 2018. Students are required to reapply for admission as a Returning Student following the instructions available from the Office of Admissions. Students reapplying after University suspension are guaranteed readmission.

If a student feels that extraordinary circumstances apply, the student may petition for relief. The petition must include approval of the advisor, department chair, dean, and the academic standards committee.

Occasionally, students under suspension will attend another institution with the intent of taking courses to show they can do satisfactory college level work. This is normally good, but students should be reminded that a UNLV course repeated at another institution will not serve to remove the original grade from the UNLV grade point average. Only courses taken at UNLV affect the UNLV grade point average.

**Student Records Policies**

**College Probation, Suspension, and Readmission:** If acceptable progress is not made in the program in which a student is enrolled, the student may be placed on probation or suspension at the College-level. College and department rules govern these matters, and the student is responsible for knowing the rules.

College suspension does not suspend a student from the university; however, a suspended student will not be permitted to take any UNLV credit course until the student has secured readmittance or acceptance by another college.

The college may readmit a student suspended by the college, upon application to the dean, in accordance with college and department rules.

Petitions for relief from college and department rules may be further appealed to the Faculty Senate Academic Standards Committee.

**Grade Grievance:** After final grades have been filed a grade in an undergraduate course may be changed only by the course instructor or by the Faculty Senate Academic Standards Committee. A grade grievance must be directed first to the instructor. If the student is not satisfied with the instructor's decision, the student may notify the Faculty Senate Office of the desire to file a grade grievance petition. Notice of such filing must be received by the Faculty Senate Office by the end of the second week of instruction of the semester (fall or spring) following the semester in which the grade was given. After compiling the appropriate documentation, the student files the petition and supporting documentation with the Faculty Senate office. Documentation is then sent to the chair of the department for input by the instructor, department chair, and college dean. Upon response from the college, all materials are forwarded to the Faculty Senate Academic Standards Committee. The decision of the Academic Standards Committee will be communicated to all parties involved.

**Correcting a Grade:** An instructor may correct a clerical error on his or her grade roster by submitting a Change of Grade. The change must be approved by the dean of the college or by the department chair. The grade change must be received within six months from the last day of the term/semester in which the original grade was given.
After six months has elapsed, a petition to correct a grade must be submitted to the Faculty Senate Academic Standards Committee.

**Repeating a Course:** Any course may be repeated regardless of the grade received. Credit will be allowed only once for successful completion of the course; except for the courses designated in the catalog as allowable repeats. 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. When a course is repeated more than once, only the original grade is omitted in computing the grade point average. The repeat grade must be on the same grading option as the original grade. All grades will remain on the student’s transcript with suitable notation to ensure an accurate academic record.

Grade reports may not initially reflect the repeated courses. Grade point averages, credits attempted, and credits earned will be manually adjusted.

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, the repeat grade will not alter the student’s permanent academic record (as it stands at the time of degree conferral).

A failed course does not have to be repeated unless the course is a university general education core requirement or a specific college or department requirement.

**Credit by Examination:** UNLV allows credit by examination for courses listed in the Undergraduate Catalog with the exception of projects, thesis, research, internship, practicum, and other courses at the discretion of the University. Credit by Examination is subject to the following regulations:

1. The student must provide evidence that they have covered the subject matter of the course as a result of having taken a comparable course in a nonaccredited educational institution or by systematic, independent study or directly pertinent occupational experience.

2. All active undergraduate students, not on probation, are eligible for credit by examination. Graduate and non-degree seeking students may not apply.

3. A maximum of 30 semester units may be obtained by departmental examination.

4. Credit earned by examination does not apply toward satisfying the minimum on-campus resident credit requirement of the institution from which graduation is sought and does not constitute an interruption of the resident credit requirement.

5. Credit by examination may not be obtained for a course previously completed at an accredited institution including courses previously taken at UNLV, regardless of grade.

6. Students are not permitted to repeat the same credit by examination.

7. Credit by examination cannot be obtained in a course that covers at an elementary level the subject matter of a more advanced course for which the student has already received credit.

8. Native speakers of languages other than English may not receive lower-division foreign language credit for courses in their native tongue.

9. The posting of satisfactory completed credit by examinations to the student’s permanent academic record shall clearly identify that the credit was earned by examination along a grade of S (satisfactory) or U (unsatisfactory).

10. Credit by examination for variable unit courses shall not exceed 5 credits (with the exception of EDWF 135 and EDWF 477 which may be taken for up to 15 credits - additional fees apply).

Students must request an application before taking the examination, and obtain written approval from the student’s own major advisor and dean, the instructor of the course, and the department chair and dean of the college offering the course. The fee per course must be paid in advance.

Regardless of whether or not the student wants the grade recorded, the instructor will enter a grade of S/U on the Credit by Examination form and submit the form. The instructor will file the completed examination according to
the instructions of the dean or department chair; these examinations may be inspected by any faculty member.

**Dual Major:** Undergraduate students may add a second major, and graduate with a dual major, provided the degree type is the same for both majors. Curriculum requirements for both majors must be satisfied. If the majors are in different colleges, the resident credit requirement must be satisfied in both colleges. The addition of a second major should be completed prior to undertaking the last 30 semester credits of work required for the degree sought. At graduation, both majors are entered on the permanent record and appear on transcripts and the diploma.

Please note: Students that wish to earn two separate degrees simultaneously fall under the dual baccalaureates policy and will need to complete all requirements from both areas of study, including an additional 30 credits of coursework, for a minimum total of 150 credits. The student must request a dual baccalaureate with the Office of the Registrar.

**Dual Baccalaureate:** Students may earn two baccalaureates, either successively or simultaneously, provided that all programmatic/curriculum requirements for both degrees are fulfilled. Additionally, courses taken for a second baccalaureate degree must include a minimum of 30 credits earned in residence beyond the minimum requirements for the first baccalaureate degree. In the case where the student will graduate with both baccalaureate degrees in the same semester, a student must apply separately for graduation for each degree, and separate payment of a graduation fee for each degree is required. In the case where a student, who was previously declared as a dual baccalaureate, has graduated with one baccalaureate degree and is returning later to earn the second baccalaureate degree at UNLV, the student must file an application for admission back into the second degree program.

The student has the option: 1) to graduate with the second baccalaureate degree according to the programmatic/curriculum requirements in the catalog of the year of the student's original enrollment for the first degree, provided that the student will graduate with a second degree not more than 10 years after the publication of the catalog used for the first degree; or 2) to graduate according to the programmatic/curriculum requirements of the most recent catalog that is active during the semester of completion of the second baccalaureate degree. Upon completion, both degrees are entered on the permanent record and appear on transcripts. Two separate diplomas are issued.

Note: In the event that programmatic/curriculum changes for the second baccalaureate degree are implemented after the student has graduated with their first baccalaureate degree and while the student is earning credits for the second baccalaureate degree, the student may choose to graduate with the new programmatic/curriculum requirements or use an earlier catalog as previously described.

**Minor:** Minor is defined by a department within the following minimums:

1. Eighteen credit hours in subject areas (24 recommended).
2. Twelve credit hours must be at the 300- or 400-level.
3. 9 credit hours must be completed at UNLV.

Approval of the department and dean offering the minor is required. Work must be completed by the date of graduation.

**Changing College, Major; Adding a Second Major; Adding a Minor:** Undergraduate students desiring to change their major or minor should visit the appropriate advising centers.

Each student must satisfy the course requirements of the college and major to which transfer is made, including any admission deficiencies.

A student may be accepted simultaneously in two colleges while pursuing dual undergraduate majors or dual undergraduate degrees. (See Dual Major and Dual Baccalaureate.) Students who wish to declare a minor, arrange this at the appropriate department office or advising center.

**Study Week:** The UNLV Faculty Senate approved the following policy for Study Week:

To ensure that students have the proper time to prepare for final examinations, the week before final exams shall
be designated as a study week, in which classes will meet as scheduled but during which instructors are encouraged to refrain from giving major tests (i.e. hour-long, sit-down, written exams). The policy shall not affect such assignments as laboratory finals, performance exams (as in juries, theatre, music, dance, etc.), short quizzes, term papers, final reports, and similar activities.

Examinations: Instructors are responsible for the proper evaluation of enrolled students throughout the instructional period.

Final Grades: Each instructor is responsible for determining final grades and for submitting them by the appropriate deadlines. These grades shall become a part of the official records of the university. Grades that appear on the student's record at the end of the semester are considered final unless the student or instructor identifies an error.

Academic Renewal Policy: Academic renewal is defined as one semester of UNLV course work disregarded in all calculations regarding academic standing, grade point average, and eligibility for graduation at UNLV. If summer courses are to be included in the work to be disregarded, then course work from all summer terms of the same calendar year shall count as one semester. Students granted academic renewal may not graduate with academic distinctions. Disregarded grades may be calculated in scholarship awards or financial aid considerations.

A minimum of three consecutive years must have elapsed since the last semester of attendance at UNLV. Only semesters prior to the absence are eligible for academic renewal. Academic renewal will be granted only once during a returning student's UNLV academic career and shall be applied only to the first undergraduate degree at UNLV. Students must apply for academic renewal before they have completed 24 credits since returning to UNLV. There will be no reimbursement of fees for the disregarded semester of academic renewal. Approval of an academic renewal request does not constitute acceptance into a UNLV college or school. If conditions outlined in the Academic Renewal Policy are met, the student's permanent record shall be suitably annotated to indicate that work taken during the disregarded semester, even if satisfactory, will not apply toward graduation requirements. All course work will remain on the transcript, ensuring a true and accurate academic history.

A completed Academic Renewal Policy Request Form must be filed by the student. This form must be completed and signed by the student and returned to the Office of the Registrar. The request must be submitted prior to the completion of 24 credits after returning to UNLV. All Academic Renewal Forms will be processed at the end of the add/drop period of the semester the student returns to UNLV.

UNLV does not honor academic renewal policies from other institutions.

Transcripts: Current students may access their unofficial transcript in their MyUNLV Student Center. Official transcripts are copies of student academic records of all work attempted at UNLV and bear the seal of the university and a signature. Official transcripts may be requested via the online system. Transcripts of work from other institutions will not be issued.

Student Record Retention (Please see Registrar's Office for complete list):

1. Grade Changes are retained indefinitely.
2. Applications for admission are retained for one year after first enrollment.
3. Transcripts from other institutions and military service records, for matriculated students, are retained three years after graduation.
4. Change of name forms are retained indefinitely.
5. Admission materials for nonmatriculated students and/or students denied admission are retained for two years.

Retention of Records by Faculty: All instructors are encouraged to retain records of completed course work and grades for a period of five calendar years from the date of course completion. Part-time, relocating, and retiring instructors should provide these materials to their respective departments.
Summer Term: Summer courses have the same academic content as the fall or spring courses with the same titles, but the summer courses move at a much faster pace.

While the courses are the same, the summer term policies are not always the same as those in fall or spring. There is a limit on the number of credits that can be taken during summer. Six credits in a five-week session is considered a full load. One credit in one week or three credits in three weeks is also considered a full load.

Summer term fees must be paid the business day before the course a student is registered for begins in order to avoid late fees. To receive a 100 percent refund, a student must drop a course the business day before the course begins. If a student registers for a course and does not pay the fees due by the end of the late-payment period for the session in which the course falls, the student will be administratively dropped still owing 50 percent of the fees for the course. The fiscal drop date for a summer term course is the date on which 20 percent of the course has passed. The academic drop for a summer term course is the date on which 60 percent of the course has passed. Summer term information can be found at summerterm.unlv.edu.

Graduation Policies

Choice of Catalog to Satisfy Graduation Requirements: A student enrolled at a Nevada System of Higher Education (NSHE) institution may elect to graduate under the catalog of the year of enrollment in a baccalaureate-level program. A student may also elect to graduate under the catalog year that was active when a student entered the university or the catalog year that is active when a student applies to graduate.

Whichever catalog is used; it cannot be more than 10 years old at the time of graduation.

The university does not guarantee the awarding of a degree based on the unchanged requirements of a particular catalog. Periodic revisions of degree requirements are made because of advances in knowledge, changes in occupational qualifications, or the expectations of accrediting authorities. If such revisions have occurred, the college dean may require a reasonable adherence to the college and department requirements of a recent or current catalog. Institutional catalogs do not constitute contractual agreement or commitments. It is the responsibility of students to keep in touch with the major department in order to learn of such requirements and to plan ahead for their completion.

Resident Credit: Resident credit means any course that is satisfactorily completed at UNLV, except credit earned by special examination or online courses. However, online courses, credit by special examination, or enrollment in another institution within the Nevada System of Higher Education does not constitute an interruption of resident credit.

A candidate for the baccalaureate degree must complete the last 30 UNLV semester credits in uninterrupted resident credit as a declared major in the degree-granting college. A student must declare a major prior to enrolling in their last 30 UNLV resident credits. (Special examination, physical education activity courses, or online credits are exempted.)

Authorized exceptions to this regulation for the baccalaureate degree are:

1. A pre-medical, pre-law, or medical technology student who has completed three years of approved resident credit may complete the last 30 credits by satisfactory work in a professional school or university-approved hospital. Students who elect this option should confer with their UNLV dean and with their Advising Office well in advance of the expected transfer date and obtain prior written permission.

2. A student who has earned a minimum of three-fourths of the total degree credits in resident instruction may earn a maximum of eight acceptable transfer credits during their senior year to apply toward the degree.

3. Students in the Study Abroad Program sponsored by the UNLV Office of International Programs who have earned three-fourths of the credits at UNLV may earn a maximum of 15 acceptable transfer credits.
A waiver of the university resident credit requirement is rarely granted, unless there are extenuating circumstances involving UNLV responsibility (e.g., requiring completion of a specific course in a student’s major field and that course is not available at the UNLV campus). A petition for an exception should be submitted two semesters in advance of the expected date of graduation. No waiver will be granted unless the petition is approved by the advisor, department chair, dean, and the Faculty Senate Academic Standards Committee.

**Minimum Credits for Graduation:** The minimum number of semester credits required for a bachelor’s degree for a student graduating under the regulations of the 2018-2019 Undergraduate Catalog is 120. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.

**Minimum Grade Point Average for Graduation:** In order to graduate, an undergraduate student must have a minimum cumulative grade point average of 2.00 for the total of all college-level credit attempted at the University of Nevada, Las Vegas (UNLV GPA). College and department GPA requirements must also be met.

**Academic Distinction:** Undergraduate students are eligible for the dean’s honors list if: (1) at least 12 credits have been completed during the semester with grades on the ABCDF scale, and (2) the semester grade point average is 3.50 or higher.

Graduation degree designations for students not participating in University or Research/Creative Honors programs are summa cum laude, magna cum laude, and cum laude. To be eligible to receive one of these designations, students must complete a minimum of 60 credits at UNLV toward a baccalaureate degree and attain the calculated GPA level for their individual college (see below). In no case will a person be eligible for summa cum laude with a GPA of less than 3.70. Students who have a combination of earned and in progress credits equaling 60, along with the appropriate GPA at the time that the commencement program goes to print, will be eligible to have their name listed with honors in the program, and their name read with honors at the commencement ceremony.

**Criteria for Academic Distinction:** The GPA ranges for graduation degree designations for each college will be established for the next academic year from the reports from the previous two years. Thus, at the end of each academic year (defined as summer, fall, and spring terms), the Office of the Registrar will prepare a rank-order list of the top 10 percent (1 percent = summa, 4 percent = magna, and 5 percent = cum) of the students graduating from each college (excluding the Graduate College). Student’s whose GPAs fall on or above the set ranking will be awarded the higher designation. These ranges will be applied to August, December, and May graduations.

In the event that no student attains the GPA level required for the summa cum laude designation in a college, the student with the highest GPA in the college at the end of the year will be awarded the designation, provided that his or her GPA is 3.70 or higher.

**Academic Distinction in the Honors College:** Students who successfully complete the Honors College programs graduate with honors if they:

- Complete the requirements for the University Honors and/or the Research and Creative Honors program, the requirements of their major, and applicable UNLV graduation requirements.
- Graduate with a final GPA of at least 3.30
- Graduate with a final Honors College GPA of at least 3.00, and
- Graduate with at least 60 credits earned at UNLV.

The distinction University Honors and/or Research and Creative Honors will appear on final transcripts and diplomas.

Latin honors designations, _Cum Laude, Magna cum Laude, and Summa cum Laude_, which appear on final transcripts and diplomas, are awarded by the Honors College to college graduates as follows: Students graduating from the University Honors program graduate _Cum Laude_ if their final GPAs are 3.50 - 3.69, _Magna cum Laude_ if their final GPAs are 3.70 or higher. (Note: The Honors College awards _Summa cum Laude_ only to students who complete the requirements for Research and Creative Honors Scholar.)

Students graduating from the Research and Creative Honors program graduate _Cum Laude_ if their final GPAs
are 3.30 - 3.49, Magna cum Laude if their final GPAs are 3.50 - 3.69, and Summa cum Laude if their final GPAs are 3.70 or higher and they receive a grade of A in HON 499.

**Application for Graduation:** Each undergraduate student should apply for graduation in MyUNLV beginning the semester of graduation. Students must have expected senior standing (earned credits plus credits currently enrolled in, equal to 90 or more) at the time of application. Students can refer to the Office of the Registrar's website for additional graduation and commencement information.

**Degree Completion:** All course requirements must be completed by the last day of final examinations of the student's final semester. All grades, including incompletes, and all transcripts of work attempted at other institutions, must be on file in the Office of the Registrar by the date that final semester grades are due. No degree, diploma, or certificate may be granted to a student unless all system, general core, college, and department requirements have been fulfilled. If awarded in error or upon fraudulent claims that are discovered later, the degree, diploma, or certificate will be revoked.

**Commencement Ceremony:** The university has two commencements each year, one in May and one in December. Spring graduates are recognized in the May commencement. Summer and Fall graduates are recognized in the December commencement. Note that participation in a commencement ceremony does not guarantee degree conferral. Degrees are conferred only when all requirements have been met and the final grades for the student's final semester have been computed. Degrees are conferred and diplomas mailed, during a 10-week period following the end of each semester.

Undergraduate students who are not scheduled to finish their degree programs until the summer following May commencement may be allowed, under certain circumstances, to participate in the May graduation ceremony. Students should see the Office of the Registrar for information.

**Exceptions to Academic Policies:** If extraordinary circumstances warrant waiver of an academic policy, a student may petition for relief. A decision will be made by the UNLV Faculty Senate Academic Standards Committee. The petition must first be routed to the student's advisor (who should assist in preparation), department chair, and dean.
General Education

Nevada System of Higher Education Requirements

The courses and number of semester credit hours shown in this section are the minimum requirements for all students completing an associate or baccalaureate degree at any Nevada System of Higher Education (NSHE) institution. The number of courses and credits completed to satisfy the NSHE General Education requirements at the individual NSHE institutions must meet or exceed these requirements. Students completing the University of Nevada, Las Vegas General Education Core and Distribution requirements will automatically satisfy the Nevada System of Higher Education General Education requirements.

The UNLV General Education curriculum and specific UNLV courses satisfying or exceeding each NSHE course requirement are described in the following catalog subsections General Education Core Requirements and General Education Distribution Requirements that are part of the catalog section titled University of Nevada, Las Vegas General Education Requirements below. Students, advisors, and faculty should use the University of Nevada, Las Vegas General Education Requirements to plan, fulfill and audit students' degree programs.

Students earning a second associate of arts, associate of science, associate of business, or baccalaureate degree, whose first degree is from an NSHE institution, are not required to repeat the System requirements for general education.

As explained in the Constitutions section, evidence of completion of U.S. and Nevada Constitutions is required of all second baccalaureate degree students whose first degree is not from an NSHE institution.

The Nevada System of Higher Education requirements are:

1. **English Requirement.** 3-6 credits. To satisfy the Nevada System of Higher Education’s Freshman English Composition requirement, all students must complete Freshman level English Composition including English 102. Normally, this consists of English (ENG) 101 and 102. Please see the University of Nevada, Las Vegas General Education Core Requirements for English Composition placement information.

2. **Constitution Requirement.** For all associate and baccalaureate degrees, instruction must be given in the essentials of the Constitution of the United States and the Constitution of the State of Nevada, including the origin and history of the Constitutions and the study of and devotion to American institutions and ideals pursuant to Nevada Revised Statutes 396.500 for all associate and baccalaureate degrees. If clearly identified, this content may be included in other coursework. The UNLV catalog must identify courses that meet this requirement. Evidence of completion of U.S. and Nevada Constitutions is required of all second baccalaureate degree students whose first degree is not from an NSHE institution. Please see Constitutions Requirement in the following University of Nevada, Las Vegas General Education Core Requirements section for complete descriptions.

3. **Mathematics Requirement.** 3 credits. Three credits of a lower-division (100 or 200 level) mathematics course. Please see the General Education Core requirements section for a complete description of how this requirement is met at UNLV.

4. **Natural Science Requirement.** 6 credits. Six credits of lower-division (100 or 200 level) coursework to include at least one laboratory experience. Please see the Life and Physical Sciences and Analytical Thinking Distribution requirement in the University of Nevada, Las Vegas General Education Requirements section for a complete description of how this requirement is met at UNLV.

5. **Social Science or Humanities/Fine Arts Requirement.** 9 credits. Nine credits of lower-lower-division (100 or 200 level) coursework in either the social sciences or humanities/fine arts. Please see the Social Sciences and Humanities and Fine Arts Distribution Requirements in the University of Nevada, Las Vegas General Education Requirements section for complete descriptions of how these requirements are met at UNLV.
University of Nevada, Las Vegas General Education Requirements

The purpose of the UNLV General Education Program is to foster student attainment of knowledge and skills that will enable them to perform better in their academic majors and in their post-graduate careers. Expected student knowledge and skills are expressed in the University Undergraduate Learning Outcomes (UULOs) that describe how students should become effective inquirers, critical thinkers, and effective oral and written communicators; participate knowledgeably and ethically in civic life; develop knowledge of the world’s diverse societies; understand and integrate basic principles of natural and social sciences, humanities, and fine arts into their learning; and continue their learning throughout their lives.

University Undergraduate Learning Outcomes

The UULOs articulate clear expectations for what all UNLV students should know and be able to do upon graduation. The UULOs form the foundation for general education and extend into the majors. This comprehensive approach aims to meld undergraduate learning into a more intentional, coherent experience that consists of the purposeful sequencing of learning from the first year, to the middle years, to the senior year and includes learning within and outside the major that consists of both curricular and co-curricular experiences.

1. Intellectual Breadth and Lifelong Learning – Graduates are able to understand and integrate basic principles of the natural sciences, social sciences, humanities, fine arts, and health sciences, and develop skills and a desire for lifelong learning. Specific outcomes for all students include:
   a. Demonstrate in-depth knowledge and skills in at least one major area.
   b. Identify the fundamental principles of the natural and health sciences, social sciences, humanities, and fine arts.
   c. Apply the research methods and theoretical models of the natural and health sciences, social sciences, humanities, and fine arts to define, solve, and evaluate problems.
   d. Transfer knowledge and skills gained from general and specialized studies to new settings and complex problems.
   e. Demonstrate life-long learning skills, including the ability to place problems in personally meaningful contexts; reflect on one’s own understanding; demonstrate awareness of what needs to be learned, articulate a learning plan; and act independently on the plan, using appropriate resources.
   f. Achieve success in one’s chosen field or discipline, including applying persistence, motivation, interpersonal communications, leadership, goal setting, and career skills.

2. Inquiry and Critical Thinking – Graduates are able to identify problems, articulate questions, and use various forms of research and reasoning to guide the collection, analysis, and use of information related to those problems. Specific outcomes for all students include:
   a. Identify problems, articulate questions or hypotheses, and determine the need for information.
   b. Access and collect the needed information from appropriate primary and secondary sources.
   c. Use quantitative and qualitative methods, including the ability to recognize assumptions, draw inferences, make deductions, and interpret information to analyze problems in context, and then draw conclusions.
   d. Recognize the complexity of problems and identify different perspectives from which problems and questions can be viewed.
   e. Evaluate and report on conclusions, including discussing the basis for and strength of findings, and identify areas where further inquiry is needed.
   f. Identify, analyze, and evaluate reasoning, and construct and defend reasonable arguments and explanations.

3. Communication – Graduates are able to write and speak effectively to both general and specialized audiences, create effective visuals that support written or spoken communication, and use electronic media common to one’s field or profession. Specific outcomes for all students include:
a. Demonstrate general academic literacy, including how to respond to the needs of audiences and to different kinds of rhetorical situations, analyze and evaluate reasons and evidence, and construct research-based arguments using Standard Written English.
b. Effectively use the common genres and conventions for writing within a particular discipline or profession.
c. Prepare and deliver effective oral presentations.
d. Collaborate effectively with others to share information, solve problems, or complete tasks.
e. Produce effective visuals using different media.
f. Apply the up-to-date technologies commonly used to research and communicate within one’s field.

4. Global/Multicultural Knowledge and Awareness
Graduates will have developed knowledge of global and multicultural societies, and an awareness of their place in and effect on them. Specific outcomes for all students include:

a. Demonstrate knowledge of the history, philosophy, arts and geography of world cultures.
b. Respond to diverse perspectives linked to identity, including age, ability, religion, politics, race, gender, ethnicity, and sexuality; both in American and international contexts.
c. Apply the concept of social justice.
d. Demonstrate familiarity with a non-native language, or experience living in a different culture.
e. Function effectively in diverse groups.
f. Demonstrate awareness of one’s own place in and effect on the world.

5. Citizenship and Ethics – Graduates are able to participate knowledgeably and actively in the public life of our communities and make informed, responsible, and ethical decisions in their personal and professional lives. Specific outcomes for all students include:

a. Acquire knowledge of political, economic, and social institutions.
b. Identify the various rights and obligations that citizens have in their communities.
c. Apply various forms of citizenship skills such as media analysis, letter writing, community service and lobbying.
d. Explain the concept of sustainability as it impacts economic, environmental, and social concerns.
e. Examine various concepts and theories of ethics, and how to deliberate and assess claims about ethical issues.
f. Apply ethical concepts and theories to specific ethical dilemmas students will experience in their personal and professional lives.

General Education Curriculum
All UNLV students are expected to be engaged in the learning process and progressively improve their knowledge and capabilities in the UULOs for both their general education and academic major. Attainment of the learning outcomes will occur as students complete both formal classwork and engage in co-curricular efforts such as undergraduate research, scholarly and creative activities, service learning, and community engagement. These activities provide students opportunities to work with faculty at the forefront of their disciplines and to contribute to a creative and constructive university environment. Additional opportunities are made available to UNLV students to build partnerships with the community through service learning opportunities as well as leadership programs.

To guide student attainment of learning outcomes at every stage of the process, UNLV’s General Education curriculum consists of a lower division Core requirement, a Distribution requirement, and Milestone and Culminating Experiences in the students’ academic majors.

The Core includes English Composition, a required First-Year Seminar (FYS), a required Second-Year Seminar (SYS), a course of study in the Constitutions of the United States and of Nevada, and Mathematics. English Composition develops students' abilities to read and analyze difficult texts, respond in well-written essays, and apply the principles of good research in their writing. The First-Year Seminar introduces students to the university environment, its shared values (the UULOs), the academic expectations of
research-oriented institutions, and college success strategies. The Second-Year Seminar provides students with a more in-depth understanding of the Learning Outcomes through intensive engagement in reading, writing, and critical thinking.

Students will then demonstrate their acquired knowledge, skills, and critical thinking within the context of the major field of study through a Milestone Experience in their sophomore or junior year and a Culminating Experience in their senior year, both of which are major program-specific in their design and delivery.

**Courses that satisfy UNLV’s General Education Requirements simultaneously satisfy the Nevada System of Higher Education General Education requirements.**

The UNLV General Education requirements must be completed by all baccalaureate degree candidates. With the exception of UNLV general education courses satisfying Multicultural/International course requirements, courses cannot simultaneously satisfy two or more general education curriculum requirements.

**Transfer Students and Students with Prior Undergraduate Degrees**

Admitted transfer students should confer with the Registrar's Office or their college advising center about applicable General Education transfer credit and course substitutions where appropriate.

Students who received an Associate of Arts, Associate of Business, or Associate of Science degree from any Nevada System of Higher Education community college are exempt from all UNLV general education requirements. They must still complete the UNLV Milestone or Culminating Experience requirements in their baccalaureate majors.

Students previously awarded a bachelor's degree from any Nevada System of Higher Education institution are exempt from all UNLV General Education requirements, except for major course requirements for their 2nd major that are also designated as part of Milestone and Culminating Experiences.

Students awarded a bachelor's degree from any regionally accredited institution outside of Nevada, provided their previously completed general education curriculum consisted of a minimum of 30 semester credit hours of for-credit, non-developmental courses, are exempt from nearly all UNLV General Education requirements, except for U.S and Nevada Constitutions (if not previously completed) and major course requirements for their 2nd major that are also designated as part of Milestone and Culminating Experiences.

Transfer students and students with prior degrees who have already successfully completed a satisfactory three-semester credit U.S. Constitutions course from a regionally accredited institution must successfully complete a satisfactory Nevada Constitutions course. For Constitutions courses offered prior to 2000, please refer to the appropriate catalog course descriptions to determine which ones satisfied the Constitutions requirement.

Lower-division general education courses successfully completed at a regionally accredited U.S. institution that may possibly count towards UNLV general education requirements will be evaluated for transfer credit no matter in what year the courses were completed.

Upper-division courses and/or courses designed for the major may not be applicable for transfer if they are over 10 years old, depending on the field of study as determined by the UNLV College, School or Department offering coursework in that field.

If a student transfers from a regionally accredited U.S. institution where the incoming transfer credits do not match the UNLV semester credits required, UNLV will first identify (if it exists) the matching general education requirement and/or the equivalent UNLV course, and then compare the number of transfer credits earned to the number of credits required. Then, whether the course is equivalent to a UNLV course or simply meets a general education requirement, the following determinations will be made:

- If 66% or more of required credits for a particular UNLV requirement have been earned in the transfer course, then the requirement has been met.
• If less than 66% of required credits have been earned in the transfer course, then the student must successfully complete additional course(s) to make up the credit shortage within that general education requirement. Students must still satisfy the minimum general education credits in every category to graduate.

Transfer students from NSHE institutions who have previously been awarded Associate of Arts, Associate of Business, or Associate of Science degrees are exempt from the FYS and SYS, but are not exempt from the Milestone and Culminating Experience requirements in their majors, unless they have satisfactorily completed a class at another NSHE institution that has a common course number with a Milestone class designated as part of a Milestone Experience in their UNLV major.

Second baccalaureate students who have been awarded a recognized bachelor’s degree from a regionally accredited institution (including UNLV degrees) are exempt from the FYS and SYS, but are not exempt from the Milestone and Culminating Experience requirements in their second majors.

For transfer students without a previously awarded degree:

i) an exemption for FYS is usually granted for satisfactory completion (passing grades) of 30 or more semester credit hours;

ii) exemptions for both FYS and SYS are usually granted for satisfactory completion (passing grades) of 60 or more semester credit hours.

Honors College
Students who successfully complete the University Honors Curriculum automatically satisfy the General Education Core, Distribution, Multicultural, and International requirements.

Petitions for Substitutions or Waivers
Students seeking to apply for substitution or waiver of General Education Requirements should submit a petition approved by the Advisor, Department Chair and College Dean to the Faculty Senate General Education Committee at least two semesters before the proposed date of graduation.

General Education Core Requirements - 18-21 credits

1. First-Year Seminar.........................2-3 credits
A required first-year course, the First-Year Seminar (FYS) introduces students to the University Undergraduate Learning Outcomes (UULOs) through reading, writing, and critical thinking. This course will provide a foundation for students’ general education experience and introduce integration of the UULOs into any major field of study. It will introduce through the Undergraduate Learning Outcomes: inquiry and critical thinking, written and oral communication, citizenship and ethics, global and multicultural issues, and intellectual breadth and lifelong learning.

All students are required to satisfactorily complete a designated FYS before completing 30 credits. To meet this requirement, students can take and complete any approved FYS that is offered by any college or department. The University FYS requirement is for a minimum of 2 credits. A college or department may elect to require an additional 1 credit of material specific to a particular major. Students changing majors need not repeat the 2-credit University FYS requirement, but may be required to complete the additional 1 credit college or department requirement for their major. Approved FYS courses currently include: BUS 103, CFA 100, CFA 101, CFA 102, COE 102, COE 103, COLA 100LA, COLA 100E, EGG 101, GSC 100, HSC 100, SCI 101, and TCA 103. Check the General Education web page and the UNLV Class Schedule for an up-to-date list of approved FYS courses.

2. English Composition.......................6 credits
English 101 and 102. These courses should be successfully completed during the student’s first year at UNLV, and must be completed prior to the end of the second year. Please see the catalog Admissions Section, the UNLV English Composition Program website or the UNLV Class Schedule web-site for current ACT/SAT placement test scores that will guide placement in the appropriate English Composition class. Students
with ACT English scores of 30 or higher, or SAT Writing or Critical Reading scores of 680 or higher place out of ENG 101 and need only take and successfully complete ENG 102. Minimum CLEP scores and Advanced Placement scores that satisfy the ENG 101 requirement are listed in the Admissions section of the catalog under the heading Nontraditional Credit. Students interested in alternate placement testing should contact the English Composition Program. Students whose first language is not English may take and successfully complete ENG 113 as an alternative to ENG 101 and ENG 114 as an alternative to ENG 102. All students must take and successfully complete ENG 102 or ENG 114; there is no exemption at UNLV.

3. **Second-Year Seminar** ...............3 credits
   A required second-year course, the Second-Year Seminar (SYS) engages students more intensively with the learning outcomes through extensive reading, writing, and critical thinking. These seminars explore issues relevant to contemporary global society within their larger contexts, including but not limited to aspects of literature, history, politics, economics, philosophy, and scientific discovery. They reinforce the UULOs of global awareness, ethics, civic engagement, oral and written communication and critical thinking introduced within the First-Year Seminar. All students must satisfactorily complete a designated SYS before completing 60 credits. Students from any college or major may take any approved SYS to meet the requirement. The following are prerequisites for the course: FYS and ENG 101 and ENG 102 (or equivalent). Approved SYS courses currently include: COE 202, ENG 231, ENG 231E, ENG 231S, ENG 232, ENG 232A, GSC 300, HSC 210, PBH 205, and PHIL 242. Check the General Education web page and the UNLV class schedule for an up-to-date list of approved SYS courses.

4. **Constitutions** ..........................4-6 credits
   All students must satisfactorily complete courses examining the Constitutions of both the United States and the State of Nevada. Transfer students who have already successfully completed a satisfactory 3 semester-credit U.S. Constitutions course from a regionally-accredited institution must successfully complete a satisfactory Nevada Constitutions course. Current UNLV courses that satisfy the Constitutions requirements are:
   - Nevada Constitution—HIST 102, HIST 217, HIST 402, HIST 417A, PSC 100, and PSC 401D.
   - Both United States and Nevada Constitutions—ECON 200, HIST 100, HON 111, HON 112, and PSC 101.

5. **Mathematics Requirement** ..........3 credits
   Any 100 or 200-level MATH course except MATH 115 or MATH 122. Mathematics course requirements are college-specific; therefore, students should check with the Advising Center of their major to determine what Mathematics course is required. This course should be satisfactorily completed during the student's first year at UNLV and must be completed prior to the end of the second year. Please see the catalog Admissions Section for current ACT/SAT placement test scores that will guide placement in the appropriate MATH class. Students interested in alternate placement testing should contact the Department of Mathematical Sciences.

**General Education Distribution Requirements - 18-19 credits**

The purpose of the distribution requirement is to provide attainment of the Intellectual Breadth and Lifelong Learning outcome by developing in students the intellectual breadth needed by all citizens in a complex, multicultural and technological global civilization. To meet this requirement, students must satisfactorily complete three courses, typically total nine to ten credit hours, in each of two content areas that are OUTSIDE the major area of study. The three distribution content areas are: (1) Humanities and Fine Arts, (2) Social Sciences, and (3) Life and Physical Sciences and Analytical Thinking. Students automatically satisfy one distribution area when they complete their major course requirements. Please see the listing "Majors and their Distribution Area Assignments"
later in this section to see the Major Distribution content areas that are satisfied within the major area of study. See the Faculty Senate General Education page for a continuously updated listing of the courses satisfying the content areas designated below.

The major department or college will also decide what training in computer literacy is needed, or incorporate such training in other course work for the major.

The distribution content areas are:

- **Humanities and Fine Arts**
  Two courses (three credits each) from two different humanities areas and one introductory or appreciation course (three credits) from a fine arts area. Courses used to satisfy the First-Year Seminar, Second-Year Seminar, English Composition or Constitution requirements may not be used to satisfy Humanities distribution requirements.
  
  - **Humanities courses (6 credits)** will be selected from any literature course offered by the English Department, any foreign language, and HIST course (Afro-American studies if cross-listed with history), philosophy (except PHIL 102, 105, or 114), architectural design (only AAD 201/201D), communication studies (only COM 101, 211, 216), GWK 300, any WMST course cross-listed with Humanities.
  
  - **A Fine Arts course (3 credits)** will be selected from AAE 100; AAI 100; LAND 100; ART 101, 107, 211, 212, 135, 160, 216, 260, 261; CFA 103; DAN 101, 103, 104, 166/AAS 166; FILM 100, 110; MUS 101, 121, 125, 127*, 129, 134*, or THTR 100, 105, 124, 175.

- **Life and Physical Sciences and Analytical Thinking**
  Two courses from the life and physical sciences (at least one of which must be a laboratory course), typically for a total of seven credits, and one three-credit course in analytical thinking.

  - **Life and Physical Science courses (7 credits)** will be selected from AST course; ANTH 102, 110L; NUTR 121; any BIOL course; any CHEM course (except CHEM 103 and CHEM 108); EGG 100, ENV 101, 220; any GEOG course; and GEOL course; or any PHYS course.
  
  - **Analytical Thinking course (3 credits):** PHIL 102, COM 104, COM 217.

- **Social Sciences**
  One course each from three different fields for a total of nine (9) credits. Courses used to satisfy the Constitutions requirement may not be used to meet Social Sciences distribution requirements.

  - **Social Science Courses (9 credits)** will be selected from any AAS course (except AAS courses cross-listed with dance, English, or history); any ANTH course (except ANTH 102); CED 117; CEE 307; CFT 150, CFT 350, CFT 360; COM 102; CRJ 104, 270, 435, 436, 438, 469; any ECON course (except ECON 261, 262, 441); JOUR 107; LAS 101; PBH 165, 429, 435; any PSC course (excluding those cross-listed with Humanities and Fine Arts); any PSY course; EPY 303; SW 101; any SOC course; or any WMST course (excluding those cross-listed with Humanities and Fine Arts). All statistics courses are excluded.

**Multicultural and International Requirements**

A minimum of six (6) credits, to be composed of a three-credit multicultural course requirement and a three-credit international course requirement that may simultaneously fulfill other general education requirements. A single course may not simultaneously meet both the multicultural and international requirements. To identify approved courses satisfying these requirements, consult the University General Education website (www.unlv.edu/provost/multicultural-requirements). Any 3-credit course completed during a UNLV Office of International Programs-approved study abroad experience can be used to fulfill the international requirement.

**Milestone and Culminating Experiences**
**Milestone Experience:** The milestone experience will orient students to the expected learning outcomes of the major and reinforce the UULOs. Each major program of study will identify and implement a Milestone Experience for their majors that can be in the form of a single course, components of multiple courses, or defined assessable outcomes. The Milestone Experience will be successfully completed in the sophomore or junior year and will include, at a minimum, reinforcement of the (i) Inquiry and Critical Thinking and (ii) Communication UULOs.

**Culminating Experience:** The Culminating Experience is a final review, consolidation, and assessment of the UULOs as well as the learning outcomes of the respective major. Each major program of study will identify and implement a Culminating Experience for their majors. The Culminating Experience can be implemented in a variety of forms. For example, a Culminating Experience might consist of one or more of the following: an original undergraduate research project, a design capstone, developing an e-portfolio of artistic or scholarly work completed over a student's college career, or a required internship or service learning project with an academic component that requires development and presentation of a report. The Culminating Experience should be completed in the last year prior to graduation.

**Majors and Their Distribution Area Assignments**

Students are required to fulfill General Education Distribution content requirements in the TWO areas OUTSIDE their major’s distribution area. The distribution areas that are automatically satisfied by completing the major are listed below:

<table>
<thead>
<tr>
<th>College or Major</th>
<th>Distribution Area satisfied in the Major</th>
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<tbody>
<tr>
<td>Lee Business School</td>
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<tr>
<td>All Majors</td>
<td>Social Sciences</td>
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<tr>
<td>College of Education</td>
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<td>Early Childhood Education</td>
<td>Social Sciences</td>
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<tr>
<td>Special Education</td>
<td>Social Sciences</td>
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<tr>
<td>Workforce Education</td>
<td>Social Sciences</td>
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<tr>
<td>Elementary Education</td>
<td>Social Sciences</td>
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<tr>
<td>Physical Education</td>
<td>Social Sciences</td>
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<tr>
<td>Secondary Education</td>
<td>According to teaching field listed below</td>
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<td>Anthropology</td>
<td>Social Sciences</td>
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<tr>
<td>Art</td>
<td>Humanities and Fine Arts</td>
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<tr>
<td>Biological Science</td>
<td>Life-Physical Sciences &amp; Analytical Thinking</td>
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<tr>
<td>Chemistry</td>
<td>Life-Physical Sciences &amp; Analytical Thinking</td>
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<tr>
<td>Earth Science</td>
<td>Life-Physical Sciences &amp; Analytical Thinking</td>
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<tr>
<td>Eng Lit/American Lit</td>
<td>Humanities and Fine Arts</td>
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<tr>
<td>English (Comprehensive)</td>
<td>Humanities and Fine Arts</td>
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<tr>
<td>French</td>
<td>Humanities and Fine Arts</td>
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<tr>
<td>General Science</td>
<td>Life-Physical Sciences &amp; Analytical Thinking</td>
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<tr>
<td>German</td>
<td>Humanities and Fine Arts</td>
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<td>History</td>
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<td>Journalism</td>
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<td>Mathematics</td>
<td>Life-Physical Sciences &amp; Analytical Thinking</td>
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<td>Spanish</td>
<td>Humanities and Fine Arts</td>
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<tr>
<td>Speech Communication</td>
<td>Humanities and Fine Arts</td>
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<td>Theatre Arts/Drama</td>
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<td>Special Education</td>
<td>Social Sciences</td>
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<td>Workforce Education</td>
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Howard R. Hughes College of Engineering
All Majors
Life-Physical Sciences & Analytical Thinking

College of Fine Arts
All Majors
Humanities and Fine Arts

Division of Health Sciences
School of Allied Health Sciences (All majors)
Life-Physical Sciences & Analytical Thinking
School of Nursing (All majors)
Life-Physical Sciences & Analytical Thinking
School of Community Health Sciences (All majors)
Social Science

College of Sciences
All Majors
Life-Physical Sciences & Analytical Thinking

Honors College
Please see Honors College program requirements

William F. Harrah College of Hotel Administration
All Majors
Social Sciences

College of Liberal Arts
Afro-American Studies
Social Sciences
Anthropology
Social Sciences
English
Humanities and Fine Arts

Foreign Languages
Humanities and Fine Arts
History
Humanities and Fine Arts
Interdisciplinary Degrees
Asian Studies
Social Sciences
Latin American Studies
Social Sciences
Linguistic Studies
Social Sciences
Multidisciplinary Studies
Social Sciences
Social Science Studies
Social Sciences
Philosophy
Humanities and Fine Arts
Political Science
Social Sciences
Psychology
Social Sciences
Sociology
Social Sciences
Women’s Studies
Social Sciences

Greenspun College of Urban Affairs
Communication Studies
Humanities and Fine Arts
Criminal Justice
Social Sciences
Human Services Counseling
Social Sciences
Journalism and Media Studies
Humanities and Fine Arts
Urban Studies
Social Sciences
Social Work
Consult with Advisor
Tuition & Residency

Regulations for Determining Residency for Tuition

The Office of the Registrar has been delegated responsibility for the determination of residence status for tuition purposes for new and continuing undergraduate and graduate students enrolled at the University of Nevada, Las Vegas respectively.

Information and application forms can be found online (www.unlv.edu) or can be obtained from the Office of the Registrar.

The following regulations are Nevada Board of Regents' policy for all the Nevada System of Higher Education institutions. These regulations are subject to change and changes become effective immediately upon Board of Regents' adoption.

TITLE 4 – CODIFICATION OF BOARD POLICY STATEMENTS

Chapter 15 – Regulations for Determining Residency and Tuition Charges

Section 1. Purpose

These regulations have been enacted to provide uniform rules throughout the Nevada System of Higher Education (the "System") and all member institutions thereof for the purpose of determining whether students shall be classified as resident students or nonresident students for tuition charges.

Section 2. Definitions

For the purposes of these regulations, the terms stated below shall have the following meanings:

1. "Alien" means a person who is not a citizen of the United States of America.
2. "Armed Forces of the United States" means the Army, the Navy, the Air Force, the Marine Corps and the Coast Guard, on active duty and does not include the National Guard or other reserve force, with the exception of active members of the Nevada National Guard.
3. "Clear and convincing evidence" means evidence that is clear in the sense that it is not ambiguous, equivocal or contradictory and is convincing in the sense that it is of such a credible, reliable, authentic and relevant nature as to evoke confidence in the truth of it.
4. "Continuously enrolled" means enrollment within a normal academic year for which continuous enrollment is claimed. A person need not attend summer sessions or other between-semester sessions in order to be continuously enrolled.
5. "Date of matriculation" means the first day of instruction in the semester or term in which enrollment of a student first occurs, except that at the University of Nevada School of Medicine, it means the date that a notice of admittance is sent to a student, and at the community colleges, it excludes correspondence courses and community service courses that are not state funded. A person who enrolled in an institution of the Nevada System of Higher Education but withdrew enrollment during the 100 percent refund period may, for the purposes of these regulations, be deemed not to have matriculated, and any determination concerning residency status shall be voided until such time as the person again enrolls at a System institution.
6. "Dependent" means a person who is not financially independent and is claimed as an exemption for federal income tax purposes under Section 152 of the Internal Revenue Code (26 U.S.C. § 152) by another person for the most recent tax year.
7. "Family" means the natural or legally adoptive parent or parents of a dependent person, or, if one parent has legal custody of a dependent person, that parent.
8. "Financially independent" means a person who has not been and will not be claimed as an exemption for federal income tax purposes under Section 152 of the Internal Revenue Code (26 U.S.C. § 152) by another person, except his or her spouse, for the most recent tax year.

9. "Most recent tax year" means the income tax return submitted for the prior income year.

10. "Legal guardian" means a court-appointed guardian of a dependent person who was appointed guardian at least 12 months immediately prior to the dependent person's date of matriculation and for purposes other than establishing the dependent person's residence.

11. "Nonresident" means a person who is not a resident.

12. "Objective evidence" means evidence that is verifiable by means other than a person's own statements.

13. "Relocated" means evidence of permanent, full-time employment or establishment of a business in Nevada prior to the date of matriculation.

14. "Residence" a term that for the purposes of these regulations is synonymous with the legal term "domicile," means that location in which a person is considered to have the most settled and permanent connection and where that person intends to remain and intends to return after any temporary absences. Residence results from the union of a person's physical presence in the location with objective evidence of an intent to remain at that location for other than a temporary purpose.

15. "Resident" means a person who has established a bona fide residence in the state of Nevada with the intent of making Nevada the person's true, fixed and permanent home and place of habitation, having clearly abandoned any former residence and having no intent to make any other location outside of Nevada the person's home and habitation. The term also includes a member of the Armed Forces of the United States who has previously established a bona fide residence in the state of Nevada but who has been transferred to a military posting outside of Nevada while continuing to maintain a bona fide residence in Nevada. When residence for a particular period is required under these regulations, this shall mean that the person claiming residence for the period must be physically present and residing in Nevada during all of the period required, excluding temporary, short-term absences for business or pleasure.

16. "Returning student" means a student who re-enrolls after a break in enrollment of one or more semesters.

17. "Student" means a person who is enrolled at an institution of the Nevada System of Higher Education.

18. "Tuition" means a monetary charge assessed against nonresident students, which is in addition to registration fees or other fees assessed against all students.

Section 3. Tuition

1. Tuition shall not be charged to current enrollees or graduates of a Nevada high school.

2. Tuition shall not be charged to returning students who had established an exemption from tuition charges at any NSHE institution in their prior enrollment period.

3. Tuition shall be charged to nonresident students, except that at the community colleges no tuition shall be charged for registration in community service courses that are not state funded.

4. Tuition shall not be charged to a professional employee, classified
employee, postdoctoral fellow, resident physician, or resident dentist of the Nevada System of Higher Education currently employed at least half time, or the spouses or dependent child of such an employee.

5. Tuition shall not be charged to a graduate student enrolled in the Nevada System of High Education and employed by the System in support of its instructional or research programs, only during the period of time of such employment.

6. Tuition shall not be charged to a member of the Armed Forces of the United States, on active duty, stationed in Nevada as a result of a permanent change of duty station pursuant to military orders, or a person whose spouse, parent or legal guardian is a member of the Armed Forces of the United States stationed in Nevada as a result of a permanent change of duty stated pursuant to military orders, including a Marine currently stationed at the Marine Corps Mountain Warfare Training Center at Pickle Meadows, California. If the member ceases to be stationed in Nevada, reside in Nevada, be stationed in Pickle Meadows, California, or be domiciled in Nevada, the spouse, child or legal guardian of the member was enrolled prior to the reassignment and remains continuously enrolled at an NSHE institution.

7. Tuition shall not be charged to a veteran of the Armed Forces of the United States who was honorably discharged and who on the date of discharge was on active duty stationed in Nevada, including a marine stationed at the Marine Corps Mountain Warfare Training Center at Pickle Meadows, California, pursuant to military orders.

8. Tuition shall not be charged to a student enrolled in the University Studies Abroad Consortium or on the Nation Student Exchange Program, only during the period of time of such enrollment. Time spent in Nevada while a student is in the National Student Exchange Program shall not be counted towards satisfying the residence requirement of Section 4, Paragraph 2 below, nor shall enrollment through the Consortium or the Exchange Program be included in the "date of matriculation" for evaluation of Nevada residency.

9. Tuition shall not be charged to members of federally recognized Native American tribes, who do not otherwise qualify as Nevada residents, and who currently reside on tribal lands located wholly or partially within boundaries of the State of Nevada.

Section 4. Resident Students

As supported by clear and convincing evidence, any person to whom one of the following categories applies shall be deemed a resident student for tuition purposes:

1. Except as provided otherwise in this section, a dependent person whose spouse, family or legal guardian is a bona fide resident of the state of Nevada for at least twelve (12) months immediately prior to the date of matriculation. Some or all of the following pieces of objective evidence of Nevada residency may be required with the student’s application for enrollment:
   1. Evidence of Nevada as the spouse’s, parents’, or legal guardian’s permanent, primary residence at the date of matriculation (Examples of evidence include home ownership, a lease agreement, rent receipts, or utility bills.)
   2. The student's birth certificate or proof of legal guardianship.
   3. The spouse's, parents' or legal guardian’s tax return for the most
recent tax year, that indicates the student claimed as a dependent.
4. A Nevada driver's license or Nevada identification card for the spouse, parent, or legal guardian issued prior to the date of matriculation.
5. A Nevada vehicle registration for the spouse, parent or legal guardian issued prior to the date of matriculation.
6. Nevada voter registration for the spouse, parent, or legal guardian issued prior to the date of matriculation.
7. Evidence that the student's spouse, family, or legal guardian has relocated to Nevada for the primary purpose of permanent full-time employment or to establish a business in Nevada. (Examples of evidence include a letter from the employer or copy of business license.)

2. Except as provided otherwise in this section, a financially independent person whose family resides outside the state of Nevada if the person himself or herself is a bona fide resident of the state of Nevada for at least 12 months immediately prior to the date of matriculation. Some or all of the following pieces of objective evidence of Nevada residency may be required with the student's application for enrollment:
   1. Evidence of 12 months of physical, continuous presence in the state of Nevada prior to the date of matriculation. (Examples of evidence include a lease agreement, rent receipts, or utility bills.)
   2. The student's tax return for the most recent tax year, indicating a Nevada address. If no federal tax return has been filed by the student because of minimal or no taxable income, documented information concerning the receipt of such nontaxable income. If the student is under the age of 24, a copy of the parents' or legal guardian's tax return for the most recent tax year that indicates the student was not claimed as a dependent.
3. The student's Nevada driver's license or Nevada identification card issued prior to the date of matriculation.
4. The student's Nevada vehicle registration issued prior to the date of matriculation.
5. The student's Nevada voter registration issued prior to the date of matriculation.
6. Evidence that the student, and/or the person's spouse, has relocated to Nevada for the primary purpose of permanent full-time employment or to establish a business in Nevada (Examples of evidence include a letter from the employer or copy of business license.)

3. A former member of the Armed Forces of the United States who was relocated from Nevada as a result of a permanent change of duty station pursuant to military orders will be considered a Nevada resident for tuition purposes under the following conditions:
   1. He/she was a resident of Nevada prior to leaving the state as a member of the Armed Forces.
   2. He/she maintained his/her Nevada residency while a member of the Armed Forces.
   3. He/she returns to the State of Nevada within one year of leaving the Armed Forces.
It will be necessary for the student to supply documentation in support of each of these conditions (e.g., driver's license, property ownership, evidence of absentee voting, etc.)

4. A graduate of a Nevada high school
5. A financially independent person who has relocated to Nevada for the primary purpose of permanent full-time employment.
6. A financially dependent person whose spouse, family, or legal guardian has relocated to Nevada for the primary purpose of permanent full-time employment.
7. Licensed educational personnel employed full-time by a public school district in the State of Nevada, or the spouse or dependent child of such an employee.
8. A teacher who is currently employed full-time by a private elementary, secondary, or post-secondary educational institution whose curricula meet the requirements of NRS 394.130 or the spouse or dependent child of such an employee.
9. An alien who has become a Nevada resident by establishing bona fide residence in Nevada and who holds a permanent immigrant visa, has been granted official asylum or refugee status, has been issued a temporary resident alien card, or holds an approved immigration petition as a result of marriage to a U.S. citizen. An alien holding another type of visa shall not be classified as a resident student, except as may be required by federal law or court decisions and upon due consideration of evidence of Nevada residence.

Section 5. Admission to Medical School
An applicant for admission to the University of Nevada School of Medicine who has been a resident of Nevada for at least 12 months immediately prior to the last day for filing an application for admission to the school (Nov. 1 of each year) shall be classified as a resident of Nevada for the purposes of being considered for admission to the University of Nevada School of Medicine.

Section 6. Admission to William S. Boyd School of Law
An applicant for admission to the William S. Boyd School of Law at UNLV who has been a resident of Nevada for at least 12 months immediately prior to the last day for filing an application for admission to the school shall be classified as a resident of Nevada for the purposes of being considered for admission to the William S. Boyd School of Law at UNLV.

Section 7. Admission to UNLV School of Dental Medicine
An applicant for admission to the School of Dental Medicine at UNLV who has been a resident of Nevada for at least 12 months immediately prior to the last day of filing an application for admission to the school (March 1 of each year) shall be classified as a resident of Nevada for the purpose of being considered for admission to the School of Dental Medicine at UNLV.

Section 8. Reclassification of Nonresident Status
There is a rebuttable presumption that a nonresident attending an institution of the Nevada System of Higher Education is in the state of Nevada for the primary or sole purpose of obtaining an education. Therefore, a nonresident who enrolls in an institution of the system shall continue to be classified as a nonresident student throughout the student's enrollment, unless and until the student demonstrates that his or her previous residence has been abandoned and that the student is a Nevada resident. Each student seeking reclassification from nonresident to resident student status must satisfy the following four conditions:
1. Application and Written Declaration
The student must apply in writing to the appropriate Records Office of the institution for reclassification to resident student status. The application must include a written declaration of intent to relinquish residence in any other state and to certify to the establishment of bona fide residence in Nevada. A declaration form prescribed by the Chancellor and approved by the board shall be utilized by each institution. The filing of a false declaration will result in the payment of nonresident tuition for the period of time the student was enrolled as a resident student and may also lead to disciplinary sanctions under Chapter Six of the Nevada System of Higher Education Code. Disciplinary sanctions include a warning, reprimand, probation, suspension or expulsion.

2. Bona Fide Residence in Nevada
The student, or the parents or legal guardian of the student, must document continuous physical presence as a Nevada resident for at least 12 months immediately prior to the date of the application for reclassification. No fewer than four of the following pieces of objective evidence must be submitted with the application for reclassification:
1. Ownership of a home in Nevada.
2. Lease of living quarters in Nevada.
3. Mortgage or rent receipts and utility receipts for the home or leased quarters.
4. Nevada driver's license or Nevada identification card issued twelve (12) months prior to the date of application.
5. Nevada vehicle registration issued 12 months prior to the date of application.
6. Nevada voter registration issued 12 months prior to the date of application.

3. Financial Independence
The student must provide evidence of financial independence. A dependent person whose family or legal guardian is a nonresident is not eligible for reclassification to resident student status. The following piece of objective evidence must be submitted with the application for reclassification:
1. A true and correct copy of the student's federal income tax return for the most recent tax year showing a Nevada address. If no federal tax return has been filed because of minimal or no taxable income, documented information concerning the receipt of such nontaxable income must be submitted. If the student is under the age of 24, a copy of the parent's or legal guardian's tax return for the most recent tax year must be submitted that indicates the student was not claimed as a dependent.

4. Intent to Remain in Nevada
The student must present clear and convincing, objective evidence of intent to remain a Nevada resident. No fewer than three of the following pieces of objective evidence must be submitted with the application for reclassification:
1. Employment in Nevada for 12 months immediately prior to the date of the application for reclassification.
2. A license for conducting a business in Nevada.
3. Admission to a licensed practicing profession in Nevada.
4. Registration or payment of taxes or fees on a home, vehicle, mobile home, travel trailer, boat or any other item of personal property owned or used by the person for
which state registration or payment of a state tax or fee is required for the 12-month period immediately prior to the date of the application.

5. Nevada address listed on selective service registration.

6. Evidence of active savings and checking accounts in Nevada financial institutions for at least 12 months immediately prior to the date of the application.

7. Evidence of summer term enrollment at an NSHE institution.

8. Voting or registering to vote in Nevada.

9. Any other evidence that objectively documents intent to abandon residence in any other state and to establish a Nevada residence.

5. The presentation by a person of one or more items of evidence as indicia of residence is not conclusive on the issue of residency. Determinations of residence shall be made on a case-by-case basis, and the evidence presented shall be given the weight and sufficiency it deserves after taking all available evidence into consideration.

6. Because residence in a neighboring state other than Nevada is a continuing qualification for enrollment in the Good Neighbor, Children of Alumni, or WICHE Western Undergraduate Exchange Programs at a NSHE institution, a student who was initially enrolled in a system institution under any of these discounted tuition programs shall not normally be reclassified as a resident student following matriculation. A nonresident student who subsequently disenrolls from the Good Neighbor, Children of Alumni, or WICHE Western Undergraduate Exchange Programs and pays full nonresident tuition for at least 12 months may apply for reclassification to resident student status. An application for reclassification may also be submitted under the provisions of this section if the material facts of a student's residency, or the parents' or legal guardian's residency, have substantially changed following matriculation.

7. When a student has been reclassified to resident student status, the reclassification shall become effective at the registration period in the system institution immediately following the date the student receives notice of the reclassification decision.

8. No reclassification under these regulations shall give rise to any claim for refund of tuition already paid to the Nevada System of Higher Education.

Section 9. Administration of the Regulations

Each institution of the Nevada System of Higher Education shall designate an appropriate office to implement and administer these regulations.

1. Each designated office shall make the initial decisions on the resident or nonresident student status of persons enrolling in the institution.

2. Each designated office shall make the initial decisions on applications for reclassification from nonresident to resident student status.

3. The President of each system institution shall establish an appellate procedure under which a person may appeal decisions of the designated office concerning tuition or status as a resident or nonresident student to an appellate board.

1. A person may appeal a decision of the designated office to the appellate board within 30 days from the date of the decision of the office. If an appeal is not taken within that time, the decision of
the designated office shall be final.
2. The appellate board shall consider the evidence in accordance with the standards and criteria of these regulations and shall make a decision that shall be final. No further appeal beyond the appellate board shall be permitted.
4. In exceptional cases, where the application of these regulations works an injustice to an individual who technically does not qualify as a resident student but whose status, either because of the residence of the student or his family, is such as to fall within the general intent of these regulations, then the appellate board shall have the authority to determine that such a student be classified as a resident student. It is the intent of this provision that it applies only in the infrequent, exceptional cases where a strict application of these regulations results, in the sole judgment of the appellate board, in an obvious injustice.

Section 10. Uniformity of Decisions
The decision of an institution of the Nevada System of Higher Education to grant resident student or nonresident student status to a person shall be honored at other system institutions, unless a person obtained resident student status under false pretenses or the facts existing at the time resident student status was granted have significantly changed. Students granted nonresident student status by an institution retain the right to apply for reclassification under the provisions of the chapter.

Residency Classification Information: You should be aware of your resident status beginning with your first semester by reviewing your tuition charges or your admissions acceptance letter. You will be considered a non-resident until you apply for residency through the Office of the Registrar, with the exception of Nevada high school graduates that need their transcript for admission. If you are a transfer student with 24 or more college credit that has graduated from a Nevada High School, you will still need to apply for residency through the respective offices.

The fact that you do not qualify for in-state status in any other state does not guarantee in-state status in Nevada, because residency status for tuition purposes is governed by Board of Regents policy. Residency classification for tuition purposes clearly places the burden of proof upon the student (or the prospective student) to provide clear and convincing evidence of eligibility.

Information submitted to qualify for in-state classification is subject to independent verification. Individuals submitting false information or falsified supporting documents are subject to disciplinary procedures.

All residency applications and all the supporting documents submitted becomes the property of the University of Nevada, Las Vegas, and are not returnable.

Appealing a Residency Decision: A student may appeal the decision for residency classification made by the Office of the Registrar. This appeal must be filed with the Residency Appeal Committee within thirty days of your initial residency decision and can be submitted to your residency evaluator who will submit the application on your behalf to the Residency Appeals Committee. If the appeal is not filed within this time frame, the decision of the Office of the Registrar becomes final.

Please contact the Office of the Registrar for instructions regarding the appeal process. Decisions of the Residency Appeal Committee are final. There is no further reconsideration beyond this board.
Fees

www.unlv.edu/cashiering

All fees assessed by the university are subject to change by the Board of Regents. Every effort is made to keep the fees as 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. Eligibility for status as a resident of Nevada is determined by Office of the Registrar & Admissions (See Residency Regulations.)

Registration Fees: The fees listed below are applicable to fall 2019 and spring and summer term 2020.

*Undergraduate fee (per credit hour) $233.00
*Graduate fee (per credit hour) $285.75
**Summer term fee (undergraduate) $253.25
**Summer term fee (graduate) $308.25
*Nonresident tuition (7 or more credits per semester) $7,525.50
*Nonresident tuition 1-6 credits (per credit undergraduate) $256.25
*Nonresident tuition 1-6 credits (per credit graduate) $314.25
*Undergraduate Student Services fee (per credit hour) $2.50
*Graduate Student Services fee (per credit hour) $6.50
*Undergraduate Academic Success Initiative Fee $25.00

Refer to www.unlv.edu/cashiering for complete and current fee information.

Nonresident Tuition: Students who are not Nevada residents and who register at UNLV must pay nonresident tuition in addition to the per credit fees each semester.

*Notwithstanding currently posted tuition and fees, all fees, tuition or other charges which students are required to pay each semester are subject to increase by action of the Board of Regents at any time before the commencement of classes. The amount you are charged at the time of registration is not a final bill and may be increased. You will receive a supplemental invoice for any additional amounts which the Board of Regents may impose. Fee changes put in place less than 30 days before commencement of classes will not be subject to late fee penalties.

** Summer term fees are determined by adding $11 per credit based on the upcoming fall semester fees.

All fees are subject to change as approved by the Nevada System of Higher Education Board of Regents. Please consult the Office of Cashiering and Student Accounts for up-to-date information or the NSHE Board of Regents Manual.

Audit Fee: The fee for audit is the same as the fee for registering for credit. The equivalent credits of an audit course are considered in determining if the student is assessed out-of-state tuition.
Special Fees and Charges:

1. An application fee of $60 is charged to U.S. residents applying for admission to the university. International students pay a $95 application fee. Application fees are not refundable or applicable to any other fee.
2. Special course fees may be made charged to cover unique and additional expenses associated with providing the course.
3. A late payment fee of $25 per day to a maximum of $250 is assessed to students who do not complete payment before the designated due date. Summer term students are assessed a late registration fee of $25 per day until the end of the late registration period for that summer session. All late tuition may be reported to a credit bureau. A late registration fee of $50 is assessed to students whose initial registration for the term occurs on or after the start of the semester.
4. Returned check fee. Personal checks are accepted for 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 the bank. The check must be made good within 10 days or it will be turned over to the District Attorney, and the student will be liable for all collection costs and any other related costs. Personal checks returned for any semester fees from the bank constitutes a financial withdrawal. The university reserves the right to place the student on a cash basis only, and financial 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 made through the Office of the Registrar & Admissions. Stop-pay checks will be processed as returned checks and are subject to the same fees and collection cost. If any personal check or electronic check is returned from the bank, the university reserves the right to place the student on a cash basis only. The university reserves the right to bring legal action for any returned check. Checks returned for NSF are illegal, and UNLV may report bearer of the check to the District Attorney.
5. A graduation fee of $75 is due when the application for graduation is filed.
6. Late application for graduation, $20.
7. Credits by special examination, $60 per course.
8. American College Testing Program (ACT) examination, $65.
9. Distance Education fee, $34 per credit.
10. Student health fee, $72 per credit, Summer Term is $37
11. Rebel recycling fee, $1 per semester.
12. Study Abroad Scholarship fee, $2 per semester.
13. Technology fees, $11 per credit.
14. CSUN fee, $1.97 per credit.
15. Student Life facilities fee: $223 Summer term - $14.50 per credit (maximum six credits).
16. International Student Fee, $145 per semester for F-1 and J-1 visa international students only.
17. Mental Health Fee, $25.00

Excess Credit Fee: The charge to a student who has attempted credits equal to 150 percent of the credits required for the student's program of study. The amount of this additional fee is equal to 50 percent of the per credit registration fee. Attempted credits include all graded courses on a student's transcript, including but not limited to the grades of F and W (withdrawal) and repeated courses. The fee will be charged, for example, after 90 credits have been attempted towards a 60-credit associates degree or 180 credits towards a 120-credit bachelor's degree. Exceptions may apply on a case-by-case basis. The fee will be charged in all terms after passing the threshold number of credits until a degree is awarded to the student. Appeal procedures and other exceptions to this fee are outlined in the catalog.
Room and Board Fees: The charge for room and board includes living quarters, a meal plan, and local telephone service. A non-refundable deposit must also be paid to reserve a room.

Residence hall fees are subject to change. Contact Campus Housing or check the UNLV website for the most up-to-date fee information.

For information on housing and food service, consult the Housing and Food Service section of this catalog.

Health and Accident Insurance: All Grad students taking 9 or more credits are required to purchase this insurance. All international students with F-1 visa status are required to purchase this insurance subject to federal visa regulations. The premium, which is subject to change, is assessed during registration.

The insurance is also available to spouses and dependents for an additional charge. Injuries incurred while participating in intercollegiate athletics are not covered by this policy.

Grant-in-Aid Fee Deferment: 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 a financial 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.

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 Office of the Registrar & Admissions or the Fee Appeal Committee. An appeal form is available at the Office of the Registrar & Admissions, the Cashier’s Office or the Cashiering & Student Accounts 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:
   1. WITHIN THE FIRST WEEK OF INSTRUCTION.
      (1) 100 percent credit of all fees.
   2. AFTER THE FIRST WEEK OF THE INSTRUCTIONAL PERIOD OF A REGULAR TERM.
      1. 50 percent credit for total withdrawal from the university until the end of the sixth week. No credit for total withdrawals after the end of the sixth week.
      2. 0 percent credit for all other withdrawals, except as noted in paragraph (5).

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:
   1. Courses dropped prior to the business day before the start of the instructional period will receive a 100 percent credit.
   2. Courses dropped within the first 20 percent of the course period, as defined by the Office of the Registrar, will receive a 50 percent credit.
   3. 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 the Office of the Registrar & Admissions for details regarding a particular modular course’s refund policy.

5. A full refund of registration fees and tuition may be given upon official withdrawal at any time during the first semester in the following circumstances:
1. Deployment of a student in the United States Armed Forces;
2. Death or incapacitation resulting from an illness or injury of the student; or spouse, child, parent, or legal guardian of the student that prevents the student from returning to school for the remainder of the semester;
3. Verifiable error on the part of the institution.
4. Involuntary job transfers outside the service area of the institution as documented by employer; or
5. Other exceptional circumstances beyond the control of the institution or the student.

All refunds are made by check or EFT or refunded to the credit card used for payment.

6. In some 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.

Delinquent Account: 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. Students are responsible for any additional collection and legal fees.

All fees are due and payable by the Friday before the start of each term. The university reserves the right to financially withdraw any student who has not paid all fees, including the $25-per-day late payment fee, and payment plan installments by the published payment deadline. For information on payment deadlines, please visit http://www.unlv.edu/cashiering/pay.

International Students: Because all international students are required to check-in in person at the Office of International Students and Scholars before registering for classes, it is recommended that payment be made after arrival at UNLV. International students may pay by credit card or e-check using the on-line registration system or may pay by traveler’s cheque, cash in U.S. dollars, personal check drawn on any U.S. bank, or cashier’s check drawn on a foreign bank ONLY IF issued in U.S. dollars and shall be accepted only with the approval of the Controller’s Office. Payment must clearly identify student’s name, identification number, and semester(s) for which payment is intended. No personal checks drawn on non-U.S. banks will be accepted. International students who wish to pay by electronic transfer should contact the UNLV Cashier’s Office at 702-895-3683 and should make such arrangements at least one month prior to the beginning of the semester.

Interest-free Monthly Payment Option: To help afford tuition and fees expenses, UNLV is pleased to offer students an interest-free monthly payment option. This allows educational expenses to be made in monthly payments during the semester for a small non-refundable enrollment fee. There is no interest, pre-qualification or credit check for this service. You will have 24-hour access to account information through the MyUNLV self-service.

For more information or to enroll, visit www.unlv.edu/cashiering.
Financial Aid & Scholarships

Financial Aid & Scholarships:
http://www.unlv.edu/finaid
The University of Nevada, Las Vegas (UNLV) provides a wide variety of assistance to finance higher-education expenses. Grants, scholarships, work programs, and student loans are available to help students meet their costs while attending UNLV. Students are encouraged to explore all possible resources. For more information about available resources and the application process, you can refer to the Financial Aid & Scholarships section of this catalog. Further details are available online at www.unlv.edu/finaid You may also contact the office at 702-895-3424 or visit the second floor of the Reynolds Student Services Complex, Building A.

Application Procedures: UNLV has one application that students must complete if they wish to be considered for financial assistance: The Free Application for Federal Student Aid (FAFSA). This application is available at www.fafsa.gov. This application will need to be completed on a yearly basis. Once an application is submitted, students may be instructed to submit various supporting documents to assist in determining their eligibility for financial assistance. Students are strongly encouraged to complete the admissions application prior to or at the same time they are applying for financial assistance. The FAFSA is available online October 1 of each year.

Priority Filing Date:

- Free Application for Federal Student Aid (FAFSA) deadline is November 1
Students should note that this is a priority date for the FAFSA. Applying after November 1 reduces your chances of receiving the most attractive financial assistance package.

Determining Need: Eligibility for many of these programs is determined by evaluating the student's financial need. The federal government expects that a student and the family (parents, spouse) have the primary financial responsibility for educational and living expenses. Family income, assets and number of people in the household are some of the factors determining the amount students and/or their families are expected to contribute.

The financial information provided by the family is evaluated by a federally approved need analysis to determine the amount the family has available to meet the student's educational expenses. If the amount determined is less than the student's total cost of attendance (fees, tuition, book, supplies, room and board, transportation, and personal expenses), the student is considered to have financial need.

Eligibility for Financial Assistance: To qualify for financial assistance, students generally must meet the following criteria:

- Be admitted as a regular student in an eligible program.
- Be a U.S. citizen or eligible non-citizen.
- Be making satisfactory academic progress toward a degree.
- If required, be registered with selective service.
- Not be in default on a federal student loan or owe a repayment on a federal grant.

Satisfactory Progress: Students receiving financial assistance are required to maintain satisfactory progress in their course work. Maintaining satisfactory academic progress means a student must fulfill certain minimum standards in regard to academic progress and academic performance. Criteria vary depending on the type of assistance received. Students should review the Satisfactory Academic Progress Standards located at http://www.unlv.edu/finaid/checklist/after-sap or
contact Financial Aid & Scholarships for information regarding satisfactory academic progress requirements specific to their financial assistance.

The minimum standards are demonstrated in three areas: grade point average (GPA), completed courses, and completion of the student's degree objective. Failure to maintain the required UNLV GPA, to earn the required number of credits annually, and/or complete the degree requirements in a reasonable time frame will result in suspension of the student’s financial assistance. Once financial assistance has been suspended, students have the right to appeal. Appeals may be made upon presentation of supportive documentation (e.g., explanation from physician, faculty advisor, counseling center, etc.) with the Satisfactory Academic Progress Appeal form.

Students receiving financial assistance, including scholarships, are notified of the satisfactory academic progress requirements at the time the award is made.

**Grants:** Grants are monies awarded based on need; the lower the expected family contribution (EFC) as determined by the FAFSA application, the more likely a student may qualify for grant funding. Grants are awarded by UNLV, the state of Nevada, and the U.S. Department of Education utilizing your FAFSA information. Grant dollars have limited financial funding streams. For more information regarding grant opportunities, please refer to www.unlv.edu/finaid/scholarships-grants

**Scholarships:** Scholarships are monies awarded by private donors based on a variety of criteria established by the donor of the scholarship program. Scholarships are awarded through the Financial Aid & Scholarships Office and departments and colleges. Scholarship awards vary from $250 to $22,000 per year. Many scholarship awards are renewable, but some are a one-time occurrence as specified by the donor.

For most scholarships, you are required to maintain enrollment in at least 12 credits (full time) per semester to make sure that the scholarship credits your account. Many outside agency scholarships require a full-time course load per semester as well. Your scholarships award notification should specify the terms and conditions.

**Student Loans:** A loan may be a good investment in yourself to help finance your education. Loans, which can help you pay your tuition and fees, as well as living expenses, must be repaid, usually after you graduate, withdraw from college, or drop below half-time enrollment status (fewer than six credit hours per semester for undergraduates or five credit hours per semester for graduates). For more information regarding interest rates and specific loan opportunities, please refer to http://www.unlv.edu/finaid/loans/
Student Services & Activities

The University is committed to placing students at the center of all that we do. In addition, we work to foster good citizenship and appropriate responsibility among all members of the university community. It is our job to create an environment in which students can learn—where they will be challenged, where they can take risks, where they will be safe. Students have opportunities for recreation and entertainment through intramural programs, athletic events, concerts, and other cultural events as well as opportunities for involvement in student government, campus activities, honor societies, and faculty research.

The Division of Student Affairs assists students in their intellectual, social, and personal development. We share responsibility for creating an environment that is conducive to learning and personal development. Programs and services within Student Affairs are organized in six units: Student Affairs Administration, Campus Life, The Center for Academic Enrichment and Outreach, Office of the Registrar, Police Services, and Student Wellness.

Office of the Vice President for Student Affairs
702-895-3656
www.unlv.edu/studentaffairs/vp-office
The Office of the Vice President for Student Affairs is located in Flora Dungan Humanities Building (FDH), Room S14. The Vice President is responsible for coordinating services and programs offered within the Division of Student Affairs. Responsibility for the student judicial affairs process rests with the Vice President. The Vice President works with student leaders, contract providers, and division staff to ensure that students are well served.

Housing and Residential Life
702-895-3489
housing.unlv.edu
The Office of Housing and Residential Life, in collaboration with the students living in the residence halls, is responsible for the development of a comprehensive housing and food service program. The residence halls are staffed by full-time professionals trained in counseling and college student development and by student peer advisors who undergo extensive training. Residence hall staff and students work together to create an environment that supports student academic achievement, healthy lifestyle choices, responsible behavior, and personal development.

The Office of Housing and Residential Life is located in Tonopah North. Students wishing to live in the residence halls must request a residence and dining hall contract directly from this office or can download the contract by accessing the Internet at housing.unlv.edu. Housing is available on a first come first-served basis to any full-time, regularly enrolled student. Freshman students graduating from high schools outside of Clark County, Nevada, are required to live in the on-campus residence halls unless excused by the Housing and Residential Life Office. For specific information on the freshman on-campus housing regulation, contact the Housing and Residential Life Office in Tonopah North or by telephone at 702-895-3489.

Freshman On-Campus Housing Regulation
The University of Nevada, Las Vegas Freshman On-Campus Housing Regulation requires that all unmarried undergraduate freshman students who have been admitted for study and who are enrolled for a least 12 credit hours reside in university residence halls unless:
1. The student has been excluded from this requirement (see A below).
2. The student has been granted an exemption from this requirement (see B below).
3. The student has been excused from this requirement (see C below).
4. Space is no longer available in the residence halls.

1. **Exclusion From the Freshman On-Campus Housing Regulation**
   Exclusions from the on-campus living requirement will be provided for those students who, prior to July 1 for fall semester, December 10 for spring semester, or May 1 for summer term, submit appropriate documentation to the Office of Housing and Residential Life indicating that they have:
   1. Married.
   2. Achieved sophomore class standing by earning at least 24 semester credits.
   3. Completed high school at least one calendar year previous and, because an independent living style has been established, it is unlikely that the residence hall experience would be educationally beneficial.
   4. Been previously enrolled at this or another university as a full-time student for at least two semesters or the equivalent.

2. **Exemptions for the Freshman On-Campus Housing Regulation**
   Graduates of high schools located in Clark County whose actual residence is with parents, guardians, or close adult relatives are automatically exempted from this requirement.

Requests for exemptions from this regulation by students who graduated from high schools outside of Clark County must be submitted on the form available through the Office of Housing and Residential Life by July 1 for fall semester, December 10 for spring semester, or May 1 for summer term and may be approved if actual local residence is with parents, guardians, or close adult relatives not subject to the on-campus living requirement. The student is required to register with the Office of Housing and Residential Life and qualifies for exemption when the actual local residence is with parent, legal guardian, grandparent, adult aunt or uncle, or adult brother or sister and the actual local residence is within metropolitan Las Vegas, including greater Las Vegas, North Las Vegas, Boulder City, Henderson, and Blue Diamond.

3. **Requests to Be Excused**
   Requests to be excused from compliance with the Freshman On-Campus Housing Regulation will be considered by the Office of Housing and Residential Life provided the specific request supports a reason listed below and that the written request to be excused is received by the Office of Housing and Residential Life by July 1 for fall semester, December 10 for spring semester, or May 1 for summer term.
   1. Medical necessity certified by a physician and approved by the Office of Campus Housing after reasonable accommodations are made in room assignment, facilities, or other adaptation.
   2. Financial hardship supported by Family Financial Statement (FFS) or Family Aid Form (FAF) evaluated by the Office of Student Financial Services and approved by the Office of Housing and
Residential Life in accordance with the established standards for the determination of financial hardship. Approximately six to eight weeks are needed to process the FFS or FAF forms, and no request for a financial hardship can be considered until the forms have been processed.

3. Special circumstances supported by compelling documentation. The denial or approval of the request will depend upon substantiation of the circumstances.

4. Compliance with Regulation

Compliance with the Freshman On-Campus Housing Regulation is a condition of initial registration and continuing enrollment at the University of Nevada, Las Vegas.

1. All regularly admitted students who have not earned 24 semester hours of college-level credits and who are enrolling as full-time students for either an academic semester (12 or more credits) or a summer term (six or more credits) are subject to this policy.

2. First-time freshmen requesting exemption or to be excused from the on-campus housing requirement must complete their requests with the Office of Housing and Residential Life prior to the dates specified in each section.

3. Transfer students to the University of Nevada, Las Vegas must present documentation of eligibility for exclusion in the form of transcripts to the Office of Housing and Residential Life.

The Office of Housing and Residential Life is the only agent for administration of the Freshman On-Campus Housing Regulation. All approvals for waiver (exclusion, exemption, or excused) from this requirement must be in writing from the Office of Housing and Residential Life. Proof of compliance with the Freshman On-Campus Housing Regulation is the responsibility of the student, and failure to comply with this regulation may be cause for denial or cancellation of registration.

On-Campus Housing and Food Service

Students choosing to live on campus will find themselves living in modern, comfortable, and conveniently located residence halls. All residence halls have been constructed or renovated since 1988 and are located in the southeast section of campus, only a few minutes' walk from the center of campus. Residence hall rooms, with few exceptions, are double-occupancy; two rooms share a bath. Each student will have a bed and mattress, study desk and chair, wardrobe or closet space, and drawers for storage. Ample lounge space for studying and socializing is found in each building. All buildings are air-conditioned, provide laundry facilities, and TV and are close to the Student Recreation and Wellness Center.

Students will find that a number of special features accompany residence hall living. Students have the opportunity to live in residential environments planned around specific themes such as freshman support programs, upper-class programs, substance-free and study-intensive. Computer labs are available at no charge. Parking is located near most of the buildings. Residents are provided with local phone service from their room at no additional cost; long-distance service can be accessed by the use of a calling card.

Students choosing to live in the residence halls become members of a vibrant community.
Students have the opportunity to participate in a wide variety of activities and take on leadership roles through student program committees, the Residence Hall Association (student government), and student employment positions. New residents will find their floor a center of activity and learning. Guided by a resident assistant, a carefully selected and specially trained upperclassman, the floor members will establish and monitor floor standards and plan events, and will assist each other in mastering the challenges of college.

Food Service: The Hazel M. Wilson Dining Commons, immediately adjacent to the residence halls, was constructed in 1990. All residents must participate in the dining program, the cost of which is included in the residence hall fee. A variety of meal plans and eating options are available, providing students with a wide variety of food from which to choose a balanced diet. Special meals and dining events occur throughout the year. For health and safety reasons, cooking is not permitted in the residence halls.

Residence and Dining Hall Costs: The cost of room and board will vary depending on the meal plan selected. For detailed information about housing and food service fees, please contact the Housing and Residential Life office or visit our website at http://housing.unlv.edu

Room and Board Refund: Residence hall students officially withdrawing from the university will receive a room and board refund according to terms and conditions of the dining and residence halls contract.

Applying for Housing: On-campus housing, 702-895-3489, is offered on a first-come, first-served basis. Freshmen who have graduated from high schools outside of Clark County, Nevada, are required to live in on-campus housing. The Freshman On-Campus Housing Regulation is published in the Admissions section of this catalog.

Questions regarding the regulation can be addressed to the Housing and Residential Life office. While approximately 1,700 beds exist on campus, the demand for housing usually exceeds availability. Interested students should request a contract directly from the Housing and Residential Life office or can download the contract by accessing the Internet at housing.unlv.edu. Associated fees and all reservation information can be accessed on the website or questions can be addressed by calling.

Other Housing: Married students must seek housing off campus. More than 40 apartment complexes are available within walking distance of the campus. These rental apartments are available at a wide range of costs, depending upon the accommodations.

Students living off campus may purchase a commuter student meal card or pay for each meal in the Dining Commons.

Campus Copy Center
702-895-3213
www.unlv.edu/print
A full-service copy center, off of Harmon near the Lied Library is available for faculty, staff, and students. Discounted prices are available. All copyright regulations apply.

Student ID Card (Rebel Card) Services
702-895-2351
rebelcard.unlv.edu/
You will need an identification card for various uses on campus, i.e., computer lab, library, physical education facility use, getting a parking permit, plays, concerts, selling back books, games room, CSUN elections, and student discounts.

The RebelCard is the official UNLV identification
To get your RebelCard you must be registered and present a state or federal ID to the RebelCard Service Center located in the Student Union Room 118, next door to Starbucks. You can deposit money to your card and use it as a debit card (RebelCash) at participating locations both on and off campus. Office hours are 8 a.m. to 7 p.m. Monday - Wednesday and 8 a.m. - 5 p.m. Thursday and Friday.

**UNLV Tickets**

702-739-FANS (3267) or 866-388-FANS (3267)
unlvtickets.com/
Ticket offices are located on campus to handle ticket sales to various events. Locations include: Performing Arts Center (702-895-2787) Thomas & Mack Center Special Events (702-739-3267).

**Student Union and Event Services**

Phone: 702-895-4449
Fax: 702-895-1609
www.unlv.edu/eventservices
Student Union and Event Services provides modern space in the Student Union for the campus community to eat, study and gather under one roof as well as provides centralized scheduling and event planning services for Student Affairs Facilities, the Stan Fulton Building; classroom events for student organizations and outside groups; and campus green space. The Student Union is the hub of student activity on campus, featuring over 2 million guests each year. It is the place to meet, socialize, play, learn and grow - all in an active environment that fits the livelihood of UNLV.

**Student Union & Event Services schedules and serves:**
Student Union
Student Recreation and Wellness Center
Stan Fulton Building Ballroom, Classrooms and Conference Rooms
Summer Conference Housing (groups)
Summer Intern Housing
Classroom Spaces for student groups and non-UNLV entities
University green spaces (Alumni Amphitheater, Student Union Courtyard, North Field, Pida Plaza, Intramural Fields, and SRWC lawn)

**Services we provide:**
Scheduling and planning
Customized event space set-ups
In-house and rental of audio visual and other specialty equipment
Business services for event Guests
Full selection of audio-visual and other equipment
Event-coordination services (if required or requested)
Risk management assessment and planning
Security and parking coordination
Registration services
Package shipping and receiving for event materials
Recycling coordination and recommendations
Food and beverage planning recommendations
Day of event services
Student Union marketing services (LED advertisements, table tents, banners, etc.)
Student Union and Student Recreation and Wellness Center marketing tables
Information for on-campus resources

**Career Services**

702-895-3495
unlv.edu/hirearebel
Assists all students and alumni with career planning, career development, and job searches. Students clarifying career decisions, seeking career-related experiences, or pursuing a professional job search can benefit from the many services of this office. Specifically, the office provides:
- Computerized career assessments
- Career counseling
• Internship assistance
• Career Fair events
• On-campus interviewing
• Hire A Rebel CareerLink; on-line postings for jobs, internships and career positions
• Resume-writing assistance
• Interview coaching (video-assisted)
• Career-related seminars and workshops
• Graduate School preparedness

Questions about career-related planning or issues should be directed to the department located in the Student Services Complex (SSC-A room 201) or by telephone at 702-895-3495. Our website is http://unlv.edu/hirearebel.

Disability Resource Center
702-895-0866
www.unlv.edu/drc

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 online at https://www.unlv.edu/drc/students/register

The DRC also provides academic adjustments for pregnant students and those needing assistance under Title IX.

Students experiencing a temporary injury such as a concussion, or broken bone(s) can also seek assistance from the DRC by completing the DRC application.

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

The DRC offers a wide range of supportive services 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 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. The DRC is located on campus in the Reynolds Student Services Complex, Building A in Room 143.

NCAA Academic Services and Compliance
702-895-0668

This office works in conjunction with academic programs and team coaches to provide advising, tutoring, computer access, and other academic support services for UNLV’s 400+ intercollegiate athletes. Office staff may be contacted by telephone at 702-895-0668 or in person at the Flora Dungan Humanities Building, Room 422 (FDH 422).

The Military & Veteran Services Center
702-895-2290
veterans@unlv.edu
www.unlv.edu/veterans
The Military & Veteran Services Center (MVSC) is located in the Donald W. Reynolds Student Services Complex, Building A, Third Floor, Room 311, and is open Monday through Friday, 8 am – 5 pm. (Phone: (702) 895-2290. Home page: unlv.edu/veterans)

In 2012, UNLV established the Military & Veteran Services Center (MVSC) to better serve our growing student veteran and military family community by developing a welcoming, veteran-friendly campus environment that fosters academic and personal success. We understand the many challenges related to pursuing a degree while serving on active duty, as well as the challenges associated with making the leap from the military to the civilian world. Working with the Student Veterans & Military Family Services Committee to meet these needs, the office is staffed with veterans and VA education benefit-experienced staff to assist more than 1,800 veterans, dependents, active duty service members, National Guard members and reservists with answers to questions concerning: admissions, VA Education Benefit enrollment certification, financial aid resources, campus and community support services, local veteran discounted-housing programs and various networks for veteran employment opportunities. The benefits of attending UNLV Las Vegas include the following:

- Nevada residency is granted to all "honorably" discharged veterans within five years of separation and within three years for military family members using VA education benefits.
- AB 76, signed by Governor Sandoval, will grant in-state tuition to any dependents of KIA service members awarded the Fry Scholarship.
- Priority registration is provided to all veterans to expedite payment of their Chapter 33 or 31 education benefit housing allowance.
- UNLV is ranked as a Top 15% or "Gold" "Veteran-Friendly" University (GIJOBS.COM 2011-2018).
- Military Times magazine ranked UNLV #62 in the Nation as "Best for Vets" out of 602 four-year schools.
- UNLV offers the VetSuccess program with a VA Benefits Counselor on campus, who serves all our disabled veterans using Chapter 31 benefits.
- UNLV sponsors a nationally recognized Student Veterans of America organization — Rebel Vets — which was recognized as a top-five chapter out of 1500 chapters.
- UNLV hosts "Safe Talk" suicide prevention training each semester.
- UNLV College of Education and Clark County School District are partners for the "Troops to Education" program at UNLV, which provides an accelerated licensing program to any veteran with a bachelor's degree.
- On January 6, 2017, Ross Bryant was named the Student Veterans of America (SVA) national "Chapter Advisor of the Year" at the 2017 SVA National Conference in Anaheim, California.
- UNLV co-sponsors the semiannual Veteran Hiring Fair with local employers ready to hire veterans.
- The MVSC, supported by the Las Vegas veteran community, has hosted ten Rebel Vet Graduation receptions to honor our 1,245 student veteran graduates. Each Rebel Vet graduate receives a Rebel Vet graduation coin; a red, white and blue cord; and certificates of recognition from
the Governor and the Nevada Delegation. We also conducted a drawing of prizes from the local community.

- UNLV is a founding partner of and participant in the University of Michigan Peer Advisors for Veteran Education (PAVE) program of peer-mentors, who welcome all new veterans, provide outreach to struggling veterans and coach all student veterans to greater academic and personal success.
- Las Vegas has a new VA Regional Hospital with state-of-the-art medical services.

Certifying Services include:

- Certifying student veterans' enrollment status to the Veterans Administration
- Making referrals to the Veterans Administration regarding benefits questions
- Providing the enrollment forms to be submitted each term, and related information
- Educating our student veterans on challenges related to any disruption in VA payment, changes in the program, and dropped or added courses
- Providing key transition information for new and transferring students
- Providing students with information about any changes in VA regulations

Office of International Students & Scholars (OISS)

www.unlv.edu/iss

For International Student Services:

Phone: 702-774-6477
Fax: 702-895-0155
Email: OISS@unlv.edu

For International Scholar Services:

Phone: 702-895-0218
Fax: 702-895-0165
Email: scholar@unlv.edu

The International Students and Scholars office (OISS) assists international students and scholars in their transition to UNLV and maintaining their immigration status while studying or working at the university. Initial inquiries about the university, admission applications, transcripts of previous college and universities, and I-20 issuance should be addressed to the Office of Admissions at internationaladmissions@unlv.edu.

Services provided by OISS include orientation, visa/immigration advising and documents for current students, personal and academic assistance, and social and cultural programs.

Campus Recreational Services

702-774-7120
SRWC.unlv.edu

The Office of Campus Recreational Services is responsible for developing and implementing a comprehensive recreational activities program that provides an opportunity to engage in organized activities for enjoyment, health, and social interaction. The activities that are scheduled and coordinated for UNLV students, faculty, and staff include intramural sports, outdoor equipment rental shop, Outdoor Adventures, and non-credit courses.

Fitness and Wellness Programs: This component of the department is responsible for all activities including; more than 250 exercise machines such as cardio and selectorized and free weights; group fitness classes including traditional and progressive class format; personal training and fitness assessments. Personal training, fitness assessment and body composition analysis can be scheduled in the Rebel Wellness Zone (RWZ), 2nd floor of SRWC. 702-895-4400, www.unlv.edu/srwc/rwz
**Intramural Sports:** This component of the department is responsible for individual and dual activities such as tennis, Ping-Pong, racquetball, etc. Team sports offered include flag football, basketball, soccer, floor hockey, dodge ball, kickball, volleyball and softball. Special events that occur during the year include ooze ball (mud volleyball), Table tennis tournaments, video game console tournaments, etc. The Intramural Sports office is located in the Student Recreation and Wellness Center (SRWC). Additional questions can be answered by calling our office at 702-774-7120 or going to SRWC.unlv.edu.

**Outdoor Equipment Rental Shop:** Students can rent camping or recreational equipment for an outdoor experience. Included in the inventory are two- and four-person tents, backpacks, sleeping bags, canoes, stoves, lanterns, snowshoes, coolers, volleyball sets and much, much more. The shop is located in the SRWC or can be contacted at 702-774-7120 or SRWC.unlv.edu.

**Outdoor Adventures:** This unit is responsible for providing opportunities to individuals who wish to participate in outdoor pursuits. Outdoor Adventures trips include canoeing, hiking, backpacking, camping, snowshoeing, and rock climbing trips throughout the southwest. Information about the current adventures is available for pick-up in the SRWC, call 702-774-7120, or go to SRWC.unlv.edu.

**Club Sports:** The office of Club Sports assists student organizations interested in recreational activities. Some of the clubs include rugby, boxing, lacrosse, water polo, volleyball, ice hockey, ultimate Frisbee, and tennis. Students interested in joining or starting a recreational club are encouraged to visit Club Sports in the SRWC or phone 702-774-7120, SRWC.unlv.edu.

**Student Employment:** Opportunities exist in all areas of responsibility within the Campus Recreation Office i.e. sports official, office attendant, fitness staff, outdoor trip leader, and supervisor positions. The main office is located in the SRWC. Additional questions can be answered by calling our office at 702-774-7120 or going to SRWC.unlv.edu.

**Service Learning & Leadership (SLL)**

702-895-5361
unlv.edu/sed/sll

Service Learning and Leadership (SLL) creates curricular and co-curricular experiences for participants to discover self, learn in community, and influence systems while pursuing social justice through service and leadership. SLL partners with faculty and community agencies to provide curricular service learning experiences, offers co-curricular leadership and service programs including alternative breaks, directs a 12 credit Leadership Development & Engagement academic certificate program, and oversees the endowed Engelstad Scholars Program and the Hope Scholars Program.

**Student Diversity & Social Justice (SDSJ)**

702-895-5361
unlv.edu/sed/sdsj

Student Diversity and Social Justice (SDSJ) is committed to providing a place for identity exploration and reclamation through co-curricular multicultural, intercultural, and social justice programming in order to serve the needs of underrepresented student populations at UNLV. SDSJ collaborates with the campus community to foster intentional programming, training, and leadership opportunities as well as operates the Center for Social Justice.
Student Involvement & Activities (SIA)
702-895-5361
unlv.edu/sed/sia
Student Involvement and Activities (SIA) is committed to helping students build connections to the vibrant and diverse UNLV community through innovative programming and involvement opportunities that elevate students' academic experience, resulting in engaged and empowered leaders in a global society. SIA promotes student involvement including student government, registered student organizations, fraternity & sorority life, and campus activities.

Student Government (CSUN)
702-895-3645
unlv.edu/csun
All undergraduate students are automatically members of the Consolidated Students of the University of Nevada, Las Vegas (CSUN) upon paying their fees and tuition. The goal of CSUN is to enhance students' college experience by offering needed services, desired programs, leadership opportunities, exciting entertainment, and enriching lectures. Most importantly, the primary focus is to serve as representatives of the students to the university administration and the local, state, and community governments. CSUN is made up of three branches:

• Executive Branch (President, Vice President, Senate President, Senate President Pro-Tempore, and Directors of student boards).
• Legislative Branch (25 Senators representing each undergraduate college).
• Judicial Branch (nine Justices appointed to 18 month terms).

All officers are elected by the student body and most serve one-year terms. CSUN has many boards and committees available for students to get involved; visit their main office in the Student Union for details and applications. Copies of the CSUN Constitution and all CSUN meeting agendas are available on their website and various locations around campus.

Student Media
Scarlet & Gray Free Press, 702-895-1512
The campus newspaper is produced and edited entirely by students, reflects student viewpoints and provides a learning experience for all interested students. The newspaper is distributed free on campus two times a week and can be viewed online at http://www.unlvfreepress.com.

KUNV, 91.5 FM, 702-798-9169: KUNV is the nonprofit, broadcast service of the University of Nevada, Las Vegas. The radio station offers quality cultural, informational, and entertainment programming to the Las Vegas community, and provides educational opportunities for students pursuing careers in the broadcast field. Internships, independent study and volunteer work can be arranged directly with KUNV or through the Journalism and Media Studies program in the Greenspun College of Urban Affairs.

Office of Student Conduct
702-895-2308
http://studentconduct.unlv.edu
The Office of Student Conduct (OSC) collaborates with the UNLV community to provide an inclusive system through enforcement of the UNLV Student Conduct Code by:

• Promoting awareness of student rights and responsibilities;
• Establishing accountability for student choices;
• Creating opportunities for involvement in the process; and
• Striving to uphold the values and ethics that advance the common good.

Students' rights and responsibilities are outlined in the UNLV Student Conduct Code which governs
student behavior on campus. Each student is expected to become familiar with the expectations outlined in the Code. Based on the premise that all students share responsibility for creating a safe and supportive learning environment, the Code outlines procedures for disciplinary action against a student who violates the provisions of the Code. Copies of the Student Conduct Code are available in the office of the Vice President for Student Affairs (FDH 514) and in the Office of Student Conduct (Central Desert Complex, Bldg. #1).

The Office of Student Conduct has responsibility for implementing the Code’s provisions and creating educational interventions that assist students in meeting their responsibilities as members of the university community. This office may be reached by calling 702-895-2308.

Center for Academic Enrichment and Outreach
702-895-4777
caeo.unlv.edu
The mission of the Center for Academic Enrichment and Outreach (The Center) is to provide traditional and innovative educational opportunities to a diverse community through targeted services and research that promote personal success. The Center helps middle school, high school, and college students from low-income families (and from families where neither parent nor guardian has graduated from a four-year institution) access and graduate from institutions of higher learning. The Center’s purpose, then, is to introduce higher education as an option to populations that have been traditionally underrepresented in postsecondary education because of class, social, physical, and cultural barriers.

The Center offers the following services: academic advising, tutoring, instruction in developmental courses (math, science, English, writing, reading comprehension, and English as a second language), assistance with college admissions and financial aid/scholarship applications, counseling on college-adjustment issues, school decisions and admissions, personal counseling, and referrals to other campus and community resources. The Center houses 16 federally funded TRiO programs (Ronald E. McNair Scholars Institute, three Student Support Services programs, two Upward Bound Math and Science programs, three classic Upward Bound programs, four Educational Talent Search programs, Educational Opportunity Center and two TRiO training projects), as well as three federally funded GEAR UP programs. Other initiatives within The Center include the Family Support Services, Parents Educational program, Mentor and Volunteer program, Summer Food Nutrition program, and Summer Youth Employment program.

Ronald E. McNair Scholars Institute (McNair) is committed to helping diversify the ranks of American faculty and of research institutions by encouraging undergraduate students who are members of underrepresented groups to pursue doctoral studies and consider faculty careers. Students who participate in this program are provided with research opportunities, faculty mentors, stipends, and publication opportunities.

Student Support Services (SSS) assists college students with overcoming personal concerns, academic deficiencies, and financial difficulties that could impair their chances of succeeding in college. It provides students with the necessary tools to develop life skills that aid in increasing retention and graduation rates and to adjust to the demands of the campus environment. Participants, who include disabled college students, receive individualized tutoring, guidance and counseling, financial aid assistance, remedial instruction, GRE/GMAT preparation assistance, and career exploration assistance.
Upward Bound (UB) and Upward Bound Math & Science (UBMS) help high school students prepare for higher education. Qualified participants receive instruction in literature, composition, and foreign languages, while maintaining a heavy focus on mathematics and science. The program has two components: academic year and summer residential. During the academic year component, participants attend classes and workshops at the UNLV campus, where they also receive academic and career counseling, tutoring, financial aid assistance, and college admission information. During the summer residential program, students live in the UNLV residence halls, obtain first-hand experience of being college students, participate in activities that promote educational and cultural enrichment, and receive regular program services.

Educational Talent Search (ETS) serves students in Grades 6 through 12 by providing academic advising/counseling, financial management, admissions requirements, and assistance with various student financial aid programs.

Educational Opportunity Center (EOC) assists qualified individuals 19 years of age and older to pursue postsecondary education. EOC assists qualified participants with choosing a career path and appropriate education channels as well as encourages high school dropouts to return to high school or obtain a GED (General Education Diploma). The goal of EOC is to increase the number of adult participants who enroll in postsecondary education institutions.

TRiO Training Institute provides professional development seminars for TRiO professionals from projects across the nation. Participants receive instruction regarding TRiO regulations and budget management, as well as workshops on assisting TRiO participants with college admission and the financial aid application process.

GEAR UP (Gaining Early Awareness and Readiness for Undergraduate Programs) focuses on providing intense and intrusive services to entire grade levels of Clark County's poorest schools. The GEAR UP cohort model allows CAEO to serve more than 20,000 students, their parents, their school and their community. Services include instructional enhancements, after-school programming, teacher professional development, volunteer and mentor services, tutoring, skill-building workshops, parental workshops, a speakers' bureau, and much more.

In addition to providing direct services to participants, The Center conducts, contributes, and sponsors academic research aimed at enhancing the body of knowledge that supports the improvement of retention and academic attainment rates of the disadvantaged and underrepresented populations. The Center's objective is to increase the enrollment, retention and graduation rates of individuals who come from disadvantaged and underrepresented backgrounds. GEAR UP and TRIO programs at The Center are federally funded through the U.S. Department of Education. All services provided through The Center are FREE to those who qualify. The Center's offices are located in the Student Services Complex, Room 301, and at 1455 E. Tropicana Ave., Suite 400.

UNLV Department of Police Services
702-895-3668
unlv.edu/police
The Department of Police Services is divided into three sections: the Police Patrol Section, the Administrative Operations Section, and the Police Emergency Communications & Dispatch Section (Student Security Services is a part of this unit). All are service-oriented and provide a resource to the university community. The Police Patrol Section provides police services to the university 24 hours a
day, 365 days per year. All officers are P.O.S.T. (Peace Officer Standards & Training) certified by the State of Nevada as Category 1 Police Officers and have the same authority as Las Vegas Metro officers in their respective jurisdictions. Police Officers are available for emergency assistance by calling 911. University Police provide other services including crime prevention presentations, bicycle, laptop computer, and mobile device property registrations, ride-alongs, crime prevention booths called "Rebel Round-table Meet & Greets" (during fall and spring semesters), background investigations, security surveys, and special-event security for campus events. To inquire about any of these services please call 702-895-3668. The Police Patrol Section also registers and maintains a registry of all sex offenders enrolled as students or working as employees of the university. The list can be viewed at https://www.unlv.edu/police/sexual-offender. When necessary this list is used to warn the campus community and surrounding businesses of the presence of sex offenders within the campus community.

The Police Administrative Operations Section provides support services for the department and the university community. Several services are available to the campus community through this unit including: police report copy services, fingerprinting services, notary services, and lost & found services. To inquire about report copy and fingerprinting services please call 702-895-4747. Report copy services are available for a fee Monday through Friday from 8 a.m. to 5 p.m. Fingerprinting services are also available for a fee Wednesdays from 9 a.m. to 4 p.m. Lost and found services are based on employee availability and interested individuals should call 702-895-5795 in advance to make an appointment. Notary services are available Monday through Friday 8 a.m. to 5 p.m. based on employee availability. The Police Records Office is also responsible for distributing the annual campus safety & security report, daily crime log and timely warnings to the campus to keep community members informed of any criminal activity on the campus. The most recent campus safety & security report or "Jeanne Clery" Report is available on the Internet at https://www.unlv.edu/police/report. The daily crime log can also be viewed on the Internet at https://www.unlv.edu/police/crime-log. Timely warnings and crime alerts are circulated to the campus community as necessary via e-mails, department website, social media, UNLV's RebelSAFE mobile app, intercampus mailings and posted flyers.

The Police Emergency Communications & Dispatch Section provides a 24-hour emergency communications center for the UNLV Police Department that is open 365 days a year. In addition to providing this service the unit also provides the following services to the university community: campus emergency call boxes, alarm-monitoring capability, and student security services. Student Security Services personnel are uniformed student employees who carry police radios and act as eyes and ears for the campus police. Suspicious activity is reported to campus police, but no intervening measures are taken by these students, who are not police officers. The Student Security Services Unit also provides a safety escort service to the campus community. Students studying late who wish to be escorted to their residence hall or vehicle need only call 702-895-3668, and a Student Security Services team will respond to escort them where they want to go (based on availability). In addition, Police Services works in cooperation with the UNLV Department of Parking & Transportation Services to provide vehicle assistance (jump starts and tire inflation) for stranded vehicles on campus during the off-hours when Parking Services is closed. If you need assistance with your vehicle please call the Parking Services Division at 702-895-1300; or if after hours, call Police Dispatch at 702-895-3668.
The Department of Police Services has expanded its operations and administration headquarters to three locations. The Police Emergency Communications & Dispatch Section and Student Security Services are located on the main UNLV campus at the Claude I. Howard Public Safety Building located on Harmon Avenue, across the street from the Environmental Protection Agency complex and west of the Lied Library Building. The UNLV Police Headquarters Building is located just off the main campus at 1325 East Harmon Avenue east of the corner of Maryland Parkway and Harmon Avenue (near the Chipotle) The Police Headquarters Building is home to the Police Administrative Operations Section's operations. UNLV Police Services also has a police facility on the UNLV Shadow Lane Campus in the Shadow Lane Campus Services Building (Building C). This facility houses UNLV Police Services' Shadow Lane Police Patrol.

UNLV Police Services manages an emergency notification system (E.N.S.) called the RebelSAFE Alert System, which is intended to provide all members of the campus community (faculty, staff and students) with messages regarding imminent or on-going emergencies via personal and university phones and cell phones, university e-mails, the department's social media (Facebook & Twitter), public announcement systems on outdoor emergency phones in various locations, video display kiosks, and on the desktops of some university computers. Enrollment in the system is completely voluntary and absolutely free. The system is done through an "opt out" system where all faculty, staff, and students are enrolled in the system from the moment they become part of the UNLV community. Automatic enrollment is only for university e-mail accounts, so anyone interested in receiving text and/or voice messages will have to add these contacts to the system. To update your contact information on UNLV's E.N.S. simply go to https://www.unlv.edu/police/rebelsafe/update.

Once you have arrived on UNLV's emergency notification page you will be able to login to the appropriate database & register. In order to register with the system, you will have to use your NSHE student identification number and MyUNLV student password to login. If you wish to remove yourself from the E.N.S. you may do so by contacting Ryan Doyle at 702-774-4122.

In the case of an immediate emergency or crime in progress, please call 911. You should know that dialing 911 from any campus phone will put you in direct communication with UNLV Police Dispatchers (not Metro). This system enhances UNLV Police response times thereby providing more immediate police services to the university community. For all non-emergency reports of crime on campus please call the UNLV Police Department at one of its non-emergency numbers (311 or 702-895-3668).

Student Health Services
702-895-3370
https://www.unlv.edu/srwc/health-center

The Student Health Center is nationally accredited and offers comprehensive health services to UNLV students at a convenient on-campus location. The Student Health Center is open Monday through Thursday from 8 a.m. to 6 p.m. and Friday from 9 a.m. to 5 p.m. The semester health fee allows registered and enrolled students to utilize the center without the added burden of paying an office visit fee. Services are available to students through same-day appointments; just call to schedule an appointment on the day you wish to be seen. Specialty clinics (such as sports medicine and gynecology) require a pre-scheduled appointment, so be sure to call ahead. Appointments may also be scheduled through our patient portal, UNLV WellnessView. The portal allows students to make appointments 24/7 from any computer or mobile device. To access the portal, please visit:
https://unlv.medicatconnect.com. The health center is staffed by licensed and board certified physicians and nurse practitioners, along with registered nurses, and certified medical assistants and support staff, to provide essential wellness and medical services of the highest quality on an outpatient basis to the UNLV community. We are located on the first floor of the Student Recreation and Wellness Center within Student Wellness on the south side of campus near the Tropicana Parking Garage.

Services offered at the Student Health Center include:

1. Treatment of various illnesses and injuries.
2. Minor surgical procedures, such as skin biopsies, laceration repair/sutures, and joint injections.
3. Various immunizations and vaccinations (including free flu shots).
4. Nutrition counseling by a Registered Dietitian.
5. Early detection and referral of chronic illness or coordination of ongoing care.
6. Immediate first aid and blood pressure checks.
7. Evaluation of allergies, referral for initial antigen treatment, and continuation of allergy antigen injections.
8. Pregnancy testing and contraception evaluation.
9. Screening exams and testing for sexually transmitted infections and, free HIV testing.
11. Evaluation, assistance, and referrals for substance abuse and eating disorders.
12. Blood draws and lab tests available through our licensed, accredited laboratory with a licensed practitioner’s order.
13. Standard prescription and non-prescription medications available through our licensed, accredited pharmacy.
14. Free health information and health education programs.
15. Evaluation and treatment by specialists: sports medicine and gynecology.
16. Care Management services by a licensed social worker.
17. For services not available on campus, referral lists to community physicians and services are available.

ALL MEDICAL RECORDS ARE KEPT STRICTLY CONFIDENTIAL IN ACCORDANCE WITH STATE AND FEDERAL LAW. Information will not be released to anyone without the written consent of the student except as provided by law or in the case of life-threatening emergency. Students under the age of 18, by Nevada state law, are minors and must have a signed, notarized parental consent and release for medical care on file at the Student Health Center prior to care being given. These forms are available on-line at http://www.unlv.edu/srwc/health-center/forms.

Student Health and Counseling/Psych Service Fees: These mandatory fees support the various medical and mental health services on campus.

Student Health Insurance: All graduate students taking 9 credits or more per semester, all graduate assistants taking 6 credits or more, and all Law students taking 12 credits or more, must have health insurance coverage either through UNLV or the insurance carrier of their choice. What that means is that all full time graduate and professional students will be charged for UNLV student health insurance. If you are able to provide proof that you carry alternate insurance from a non-UNLV provider, you may qualify for a waiver, and the UNLV health insurance fee will be removed from your account. All F-1 UNLV international
students are REQUIRED to purchase UNLV health insurance. International students are automatically charged health insurance fees when they register for classes.

**Mandatory Immunization Requirement:** The state of Nevada follows the guidelines of the U.S. Department of Health and Human Service Advisory Committee on Immunization Practices (ACIP). Nevada Administrative Code 441A.755 states that a person shall not attend a college or university in this state without proof of immunity to tetanus, diphtheria, measles, mumps, rubella and any other disease specified by the state Board of Health unless excused because of religious belief or medical condition. Additionally, all college freshmen less than 23 years of age who are enrolled at a Nevada university are required to show proof of immunity to or vaccination against meningitis. Students must provide proof of immunity or vaccination directly to the Office of Admissions.

**Student Counseling & Psychological Services**

**702-895-3627**

http://unlv.edu/srwc/caps

Pursuing a university education can be exciting and challenging. It can also be highly stressful since social and personal concerns can interfere with students’ academic work and emotional well-being. Student Counseling and Psychological Services (CAPS) is committed to helping students benefit fully from their college experience at UNLV. Our psychologists, counselors, and psychiatrist specialize in dealing with the problems commonly experienced by college students of all ages and backgrounds. We collaborate with students to increase self-understanding and develop the skills necessary to overcome personal concerns.

Confidential services offered to assist students manage the adjustment demands and personal challenges of college include:

- Individual counseling
- Group Counseling
- Couples counseling (At least one member of the couple must be a currently enrolled UNLV student.)
- Crisis assessment and intervention
- Psychological assessment and testing
- Drug and alcohol use assessment
- Eating Disorder Assessment and Treatment
- Medication evaluation and management
- Referrals to community health care providers when the student's needs cannot be adequately provided for within the limits of a short-term therapy approach
- Educational workshops and presentations
- Consultation to members of the campus community (faculty, staff, and students)

All currently enrolled UNLV students who paid their Student Health and Mental Health Fees are eligible for confidential counseling services. Please call us at 702-895-3627 to schedule an initial intake appointment. Our office hours are Monday through Thursday from 8:00 a.m. to 6:00 p.m. and Fridays from 9:00 a.m. to 5:00 p.m. For situations that need immediate attention, a crisis counselor is available during operating hours.

Our services are provided free of charge, except for certain psychological testing and cost of medication. We are located on the third floor of the Student Recreation and Wellness Center. For more information, call us at 702-895-3627 or visit our website at http://www.unlv.edu/srwc/caps
Rebel Wellness Zone (RWZ) - Wellness Promotion

702-895-4400
http://www.unlv.edu/srwc/rwz
Location: 2nd Floor SRWC
The Rebel Wellness Zone is your wellness and recreation resource on campus. Our programs and services enhance the collegiate learning experience and encourage lifelong personal wellness. It’s a place for you to relax, recharge and learn to help a friend and yourself! The RWZ and Wellness Promotion staff offer a safe space for GLBTQIA and students in recovery. Programs and services offered via the RWZ include:

- **Relaxation Room** with automated massage chairs. Free! Call 702-895-4400 to reserve or drop in. www.unlv.edu/srwc/wellness-promotion/relaxation-room
- **Registered Dietitian** - Nutrition consultations are free for students who have paid the Student Health Fee. Call 702-895-4377 or 702-895-3370. www.unlv.edu/srwc/wellness-promotion/dietitian
- **Free HIV Testing Clinics offered** 3-4 times per Fall and Spring semester. Check our website for current semester's dates/times. Tests are always available for a fee in the Student Health Center. www.unlv.edu/srwc/wellness-promotion/sexual-health
- **Personal Training** – Convenient and affordable! Hire a personal trainer to help motivate, educate and guide you to your fitness goals. www.unlv.edu/srwc/fitness-rec/personal-training
- **Fitness Assessments** – The first step in developing your fitness goals. Includes measures of flexibility, strength, cardiovascular endurance and body composition. www.unlv.edu/srwc/fitness-rec/assessments
- **Healthy Rebel Peer Educators** – Student organization of peers who teach, advocate, and encourage healthier lifestyles on campus. www.unlv.edu/srwc/groups/healthy-rebels
- **HYPER: Collegiate Recovery Support** – A student organization of peers supporting other peers in recovery and in living a substance-free lifestyle for any reason. www.unlv.edu/srwc/groups/hyper
- **Campus programs/presentations/events** – We host events on campus and offer presentations and programs on alcohol and other drugs, impaired driving, nutrition, physical activity, stress management, sleep, safer sex, relationship communication, body image and more!
- **BACCHUS Certified Peer Educator Training** – Leadership empowerment training to become a peer educator and teach with us. National Certification. www.unlv.edu/srwc/education-workshops
- Resource brochure library and safer sex kits can be found in our lounge.
- Free personal hygiene products.
- Internships, practicum hours and professional leadership opportunities available! www.unlv.edu/srwc/wellness-promotion/internships
The Jean Nidetch Women’s Center
Phone: 702-895-4475
Fax: 702-895-0601
https://www.unlv.edu/womenscenter
The Jean Nidetch Women’s Center is committed to creating a supportive and inclusive environment for all genders through programming, services, and advocacy for the UNLV campus community.

Our programs and services are:

- **Interpersonal violence advocacy:**
  - We offer students of all genders and backgrounds advocacy support related to sexual assault, domestic and dating violence, and stalking.
  - We provide in-office advocacy, where you can talk face to face with a trained CARE Advocate in a confidential space.
  - All CARE Advocates undergo an intensive 45-hour training as well as continuing education on topics surrounding interpersonal violence.
  - CARE Advocates also staff our 24-hour hotline the UNLV CARE Line. The CARE Line is dedicated to helping victims, survivors, and secondary victims of interpersonal violence. The CARE Line is a 24/7 service for the UNLV community and connects students, staff and faculty with referrals and resources. You can reach the UNLV CARE Line at 702-895-0602 for assistance.

- **Education, Prevention & Outreach:**
  - Education to campus through CARE Advocates. They provide presentations and help facilitate conversations on a variety of topics to UNLV departments, organizations, or classrooms.
  - Green Dot Student Training is an opportunity for UNLV students to learn the skills they need to safely intervene in potentially violent situations. Through videos, group conversations, discussions, role plays, and interactive activities, students will learn about how to detect a red dot, the barriers that exist for all of us when we try to do green dots, and how to find the most helpful green dot for every situation.

- **Awareness Events:**
  - In conjunction with campus and community groups, we organize key events throughout the year that bring awareness and builds community in regards to interpersonal violence and parenting.

- **Internships, practicum and projects**
  - Undergraduate and graduate students are encouraged to explore applying theory to practice through their respective academic discipline. Projects, internships and special events are opportunities for students to get involved and advance their academic goals.

- **Lactation rooms:**
  - We oversee six lactation rooms throughout campus to ensure there is a safe and private space for students, staff and faculty who
would like to meet their breastfeeding goals!
All students are welcome to visit the JNWC on the second floor of the Student Service Complex SSC-A, Room #255 (located directly behind the Cox Pavilion).

Honors, Awards, and Scholarships
Nevada Centennial Medallion Award: A silver medallion is presented each year to the graduating senior who achieved the highest four-year scholastic record at the university. The first medallion, representing the state's 100th birthday, was awarded June 3, 1964, to a senior in UNLV's first graduating class. The last of 101 medallions made available by the Rotary Club of Las Vegas will be presented in the year 2064 on Nevada's bicentennial anniversary. A plaque listing all the recipients hangs in the library.

Phi Kappa Phi Medallion: Graduating seniors who have been initiated into UNLV's chapter of Phi Kappa Phi National Honor Society are presented with bronze medallions hung on a blue cord to wear over the gown at commencement. Each year UNLV's chapter of Phi Kappa Phi invites to membership the top members of the senior and junior class in all academic disciplines.

College of Business
Phi Gamma Nu Award. Presented to the graduating senior with the highest grade point average.
Wall Street Journal Student Achievement Award. Given to an outstanding business student.

College of Education
Lilly Fong Outstanding Student Teacher Award. Presented to an outstanding senior completing student teaching.
Science and Art Technology. Presented to an undergraduate or graduate seeking initial licensure with a science or art education major.
Evelyn Semling Endowment. Presented to sophomores, juniors, and seniors in undergraduate programs in elementary education.

College of Fine Arts
Colonel Koch Award. Presented to an outstanding art student.
Outstanding Achievement in Art Award
Outstanding Choreographer Award in Dance
Outstanding Graduating Music Student Awards
Outstanding Performer Award in Dance
Outstanding Scholar Award in Dance
Outstanding Theatre Arts Senior Award

Division of Health Sciences
E.R. Squibb and Sons Award. Presented for outstanding achievement in nuclear medicine and radiological sciences.
Outstanding Student Awards in Nursing. The Clark County Medical Society Auxiliary presents awards to outstanding students in the baccalaureate degree programs.

School of Nursing
Outstanding Student Awards in Nursing. The Clark County Medical Society Auxiliary presents awards to outstanding students in the degree programs.
Mary Lou Loveday Endowed Memorial Scholarship: Memorial scholarship offered to a full-time student with children at home.
Maria Tiberti Nursing Scholarship: Awarded by the Tiberti Foundation to a full-time prenursing or nursing student.
Alfred and Marjorie Rappaport Foundation: Awarded by Lahr Foundation to full-time undergraduate and graduate students.
Harry and Rebecca Lahr Scholarship: Awarded by Lahr Foundation to full-time undergraduate and graduate students.

College of Hotel Administration, William F. Harrah
Merit Award of American Hotel Foundation. Presented for meritorious achievement to a finalist in nationwide competition for the Arthur J. Packard Memorial Scholarship.
Outstanding Achievement in Hotel Accounting. Awarded to a hotel student showing superior academic achievement overall and in accounting by the Las Vegas chapter of the International Association of Hotel/Motel Accountants.

College of Liberal Arts
Academic Merit Scholarship. Awarded to a graduating sociology student holding the highest GPA.
Audre Lorde Award for the Outstanding Student in Gender and Sexuality Studies. Established to honor a graduating Gender and Sexuality Studies major who has demonstrated outstanding scholarship, service, and activism within the field of Gender and Sexuality Studies.
Award for Excellence in Philosophy. Given to a junior or senior majoring or minoring in philosophy, based on a paper submitted in an annual competition.
C. Wright Mills Student Award. Awarded to an outstanding graduating senior in sociology.
John S. Wright Award. Given for best graduating history major.
Joseph A. (Andy) Fry Award. History award given for the best senior capstone paper.
Maura Kaufman Award. Presented to an outstanding student majoring in English.
Ralph Roske Award. Given for best beginning history major.
Outstanding Student in Psychology. Presented to the outstanding senior in psychology.
Psi Chi Distinguished Service Award. Presented to a graduating senior for outstanding service contributions.
Sidney Green Award. Awarded to an outstanding junior in sociology.
Undergraduate Research Award. Presented to seniors in psychology for outstanding achievements in research.
VISTA Award. Awarded to an outstanding graduating senior in the College of Liberal Arts.
C. Wright Mills Student Award. Awarded to an outstanding graduating senior in sociology.

College of Sciences
American Institute of Chemists Student Award. Given to an outstanding senior in chemistry.
American Chemical Society Undergraduate Award in Analytical Chemistry.
American Chemical Society Undergraduate Award in Organic and Polymer Chemistry.
Anne Wyman Mineralogy Award.
Boulder Dam Section of the American Chemical Society. Given to an outstanding chemistry student.
Chemical Rubber Company Chemistry Achievement Award. Presented to an outstanding freshman chemistry student.
Chemistry Department Awards for Achievement in General Chemistry.
Clark County Gem Collectors, Inc. Presented to outstanding geology students.
Geological Society of Nevada Scholarship.
Outstanding Graduating Senior in Mathematics Award.
Outstanding Beginning Physics Student Award.
Ronald L. Lynn Award. Given for outstanding service to the geoscience department.
Terry Evans Memorial Award. Given to exceptional students in aquatic biology.

College of Urban Affairs, Greenspun
Outstanding Student of the Year in the Department of Social Work.
University Policies

- Student Academic Misconduct Policy
- UNLV Student Computer Use Policy
- Dangerous Weapon Policy
- Animal Policy
- Alcoholic Beverages
- Use of Automobiles and Parking
- Use of University and Facilities
- Fundraising
- Handbills and Posters
- Skateboard Policy
- Smoking Policy
- Student Use of Hazardous Materials

The conduct of all persons affiliated with the University of Nevada, Las Vegas is governed by 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. Additionally, a student conduct code provides standards for student behavior.

Printed copies of these codes are available in the office of Student Conduct, CDC 1 118 (702) 895-2308. For the most recent version of the policy, visit http://studentconduct.unlv.edu/

Student Academic Misconduct Policy

STATEMENT OF PURPOSE

UNLV is first and foremost an academic community, with its fundamental purpose the pursuit of learning and student development, and enabling all to reach their highest potential.

UNLV asserts that any instance of academic misconduct hurts the entire community, and that the values of honesty, trust, respect, fairness, responsibility and professionalism are paramount.

UNLV will uphold these standards through fair and objective procedures governing instances of alleged student academic misconduct.

ENTITIES AFFECTED BY THIS POLICY

All academic units, libraries, and/or units with teaching and research faculty.

WHO SHOULD READ THIS POLICY

Administrators, academic faculty, staff and students who would be affected by this policy.

POLICY

I. EXPECTATIONS

Integrity is a concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility, and professionalism. By choosing to join the UNLV community, students accept the Student Academic Misconduct Policy and are expected to always engage in ethical decision-making. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV’s function as an educational institution.

1. HONESTY

Honesty is the foundation of teaching, learning, research and service; and is the prerequisite for full realization of trust, fairness, respect and responsibility. Students and faculty alike must be honest with themselves and others.

2. TRUST

The UNLV community fosters a climate of mutual trust, encourages the free exchange of ideas. Only with trust can the public believe in the social value and meaning of an institution's scholarship and degrees.

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3. **FAIRNESS**
We strive to establish clear standards, practices, and procedures and we expect fairness in the interactions of students, faculty and administrators. Important components of fairness are predictability, clear expectations, a predictable and transparent process, as well as consistent and just responses.

4. **RESPECT**
As an academic community of integrity, we recognize the participatory nature of the learning process and honor and respect a wide range of opinions and ideas. Students and faculty must respect themselves and each other as individuals. All must show respect for the contribution of others by acknowledging their intellectual debts.

5. **RESPONSIBILITY**
Every member of an academic community—each student, faculty member and administrator—is responsible for upholding the integrity of scholarship and research. Individuals must take responsibility for their own honesty and must tolerate and ignore academic dishonesty on the part of others.

6. **PROFESSIONALISM**
Because students are aspiring professionals, our community expects them to exercise professional conduct during their career as students and uphold the core value of integrity.

II. **ACADEMIC MISCONDUCT VIOLATIONS - DEFINITIONS**
Academic misconduct is intentional or unintentional occurrence of the following:

1. Using the words or ideas of another, from the Internet or any source, without proper citation of the source(s), commonly called plagiarism.
2. Receiving unauthorized external assistance during an examination or any academic exercise for credit. This includes, but is not limited to:
   1. Providing or receiving aid in connection with any academic assignment;
   2. Use or possession of camera telephones, text messages, computer disks, audio recorders, calculators, solution materials, photocopies, materials from previous classes, commercial research services, notes or other means to copy or photograph materials used or intended for academic evaluation or assignment;
   3. Communication in any manner with another student;
   4. Working with others on graded coursework, including in-class, on-line and take-home examinations; or
   5. Possessing, reading, buying, selling or using any materials intended for an academic evaluation or assignment in advance of its administration.
3. Turning in the same work in more than one class (or when repeating a class), unless permission is received in advance from the instructor.
4. Falsifying information for inclusion in an assigned paper, project or exercise; including inventing or altering data from a laboratory or field project, or creating fictional citations for a paper.
5. Attempting to influence or change any academic evaluation, assignment or academic records for reasons having no
relevance to academic achievement. This includes, but is not limited to, bribery, threats and making unauthorized changes to any academic record.

6. Falsifying or misrepresenting attendance, hours, or activities in relationship to any class, internship, externship, field experience, clinical activity or similar activity.

7. Acting or attempting to act as a substitute for another, or using or attempting to use a substitute, in any academic evaluation or assignment.

8. Facilitating, permitting or tolerating any of the above-listed items.

III. PROCEDURES FOR HANDLING STUDENT ACADEMIC MISCONDUCT

These procedures are designed to encourage a fair and appropriate response to allegations of student academic misconduct. They may be modified in individual cases, so long as the student agrees to the proposed modifications, is provided an opportunity to respond to allegations of academic misconduct within a reasonable time after the allegations have been made, and the modifications do not violate fair process.

1. Anyone with a good-faith basis for believing a student has violated this policy may report the alleged violation to the responsible instructor, chair/director, dean or appropriate designee within the academic unit. The person who pursues the allegation may be the responsible instructor or a designee appointed by the supervisor of the academic unit in which the course is located. It is expected that appropriate review and consultation with a supervisor, chair and/or director is a part of this process.

2. A faculty member or primary course instructor who suspects that a student has committed an act of academic misconduct:
   1. Shall notify the student of the nature of the allegation and offer the student an opportunity for an initial meeting to discuss the allegation and to present any relevant information. When possible, this initial meeting shall occur within five (5) college working days of discovery of the alleged violation. (or)
   2. Shall notify the student of the nature of the allegation and schedule an initial meeting with the student within five (5) college working days of discovery of the alleged violation. The message shall contain the following:

   "This message concerns the _____(paper, report, assignment, etc.) that you submitted in partial fulfillment of the course requirement in your _______(course number and section) class on ______(date). My initial examination of that (paper, report, assignment) reveals that you may have violated the UNLV Student Academic Misconduct Policy. I request that you meet with me on _____(date of initial meeting) at _______(time) in ______(location)." (parenthetical material deleted)

3. Proceedings in case discussions are informal and non-adversarial. The responsible instructor/designee may make a verbal agreement on, or provide the student with a written or electronic notice of, a scheduled meeting. The responsible instructor/designee may request a witness to be present for this meeting. In compelling circumstances, this initial meeting may also be referred to the appropriate Office of Student
Conduct (OSC) officer or designee. This option shall occur only after consultation with OSC.

4. The purpose of this initial meeting will be to review and discuss the charges before a decision is reached. The responsible instructor/designee may use documentary evidence, provided the student is allowed to respond to it at the meeting. At the sole discretion of the responsible instructor/designee, a student may bring relevant witnesses and/or an advisor. Neither the responsible instructor/designee nor the student may have legal counsel as their advisor at an initial meeting. An advisor is not permitted to participate directly or speak for the student, but may only be present during initial meetings or any subsequent university hearings.

5. At this initial meeting, the following results may occur:
   1. The allegations are dismissed.
   2. The student accepts responsibility for the violation and accepts the academic sanction(s).
   3. The responsible instructor/designee believes a violation occurred with the student not admitting responsibility and requesting a hearing.
   4. The student accepts responsibility for the violation but does not accept the academic sanction(s) and requests a hearing.

6. In any of the above circumstances, the "UNLV Alleged Academic Misconduct Report" form shall be completed, with a signed copy being provided to the student. Authority and jurisdiction for actual determination of academic misconduct and appropriate academic sanctions are with the primary instructor of the class and/or assignment or the approved departmental process in accordance with the academic unit chair's/director's/supervisor's/dean's approval. If the responsible instructor/designee facilitating the initial meeting is not the primary instructor, appropriate communication regarding such sanctions is necessary before signing the UNLV Alleged Academic Misconduct Report form.

7. Upon completion of this initial meeting/approved departmental process, if the responsible instructor/designee believes academic misconduct has occurred at any level, he or she shall notify the Office of Student Conduct (OSC) for resolution of a UNLV Student Conduct Code violation. Notification to OSC shall include a copy of the signed UNLV Alleged Academic Misconduct Report form and copies of any relevant documentation used in determining the violation. The responsible instructor/designee shall forward the Alleged Academic Misconduct Report and copies of relevant documentation within ten (10) college working days of discovery and/or initial meetings with the student.

8. OSC will notify the charged student per notification procedures specified in the UNLV Student Conduct Code, which can be found at http://studentconduct.unlv.edu. The student will be informed of his or her applicable rights and the process(es) for accepting the academic and conduct sanctions and/or appealing the academic decision and sanctions.
9. If the student does not attend the initial meeting, the instructor shall forward the charge to the Office of Student Conduct.

IV. HEARING AND APPEAL PROCEDURES FOR ACADEMIC MISCONDUCT

1. In any case where a student requests a hearing beyond the initial meeting, it shall occur in the following order:
   1. If the student wishes to appeal the findings of the chair/director/designee/committee, he/she must file the appeal of the decision and any sanctions to the UNLV Academic Integrity Appeal Board. This appeal must be filed within five (5) college working days of the student’s initial meeting with the Office of Student Conduct. The Academic Integrity Appeal Board will meet and all parties will be notified within fifteen (15) college working days of the outcome of the appeal; sending its decision to the student, instructor, department/unit and Office of Student Conduct. The decision of the Academic Integrity Appeal Board will serve as the final place of appeal.
   2. The UNLV Academic Integrity Appeal Board shall have the option of inviting the student and responsible instructor or department designee, and allow for witnesses of each party. If the Academic Integrity Appeal Board invites either party of the allegation to the hearing, both parties shall be invited.
   3. When a student is appealing the academic sanctions given as a result of an allegation of academic misconduct, and when such sanctions are provided in departmental publications and/or in the responsible instructor's class syllabus, close consideration of materials will be given based on the clarity of the publication.
   4. In cases involving suspension, the Academic Integrity Appeal Board's decision shall constitute a recommendation to the Vice President of Student Affairs (VPSA), who shall have final authority. In case involving expulsion, the Academic Integrity Appeal Board's decision shall constitute a recommendation to the President, who shall have the final authority.

2. A student alleged to have committed academic misconduct is not permitted to withdraw from the class in question unless the matter is resolved in the student's favor, without the responsible instructor's expressed permission, and may not be permitted to do so if withdrawing from the class would negate the academic sanction.

V. CONFIDENTIALITY OF RECORDS

All records in relation to a student misconduct case will be maintained in accordance with the Family Educational Rights and Privacy Act (FERPA) of 1974 and the U.S. Department of Education guidelines for implementation. Transcripts of academic records shall contain information about academic status, including disqualification for academic or conduct reasons, and expulsion, suspension and revocation of admission for disciplinary reasons. In accordance with UNLV policy and the U.S. Family Education Rights and Privacy Act of
1974 (FERPA), UNLV vigorously protects the privacy of student education records. UNLV's FERPA policy is located in its entirety at frepa.unlv.edu.

VI. SANCTIONS FOR ACADEMIC MISCONDUCT

Potential sanctions for academic misconduct may include, but are not limited to, any one of the sanctions listed below singularly or in combination with each other:

1. **Academic Sanctions**
   - Each of the above may be agreed upon at the initial meeting.
   1. Resubmitting an assignment
   2. Reduction of points/letter grade for the assignment
   3. Dropping a class
   4. Reduction of points/letter grade for class
   5. Failing grade for assignment
   6. Failing grade for class

2. **Conduct Sanctions**
   1. Reflection letter of understanding
   2. Skill Remediation
   3. Academic Integrity Seminar
   4. Conduct Warning or Probation
   5. Loss of Privileges* 
   6. Transcript notation (approved by Dean/Academic Unit Equivalent)
   7. Suspension or removal from program, school or college (approved by Dean/Academic Unite Equivalent)
   8. Suspension
   9. Expulsion
   10. Withdrawal of credit for previously accepted course or requirement
   11. Revocation of a degree or certificate
   12. Referral to the appropriate legal authorities

*In instances where it is determined that the academic misconduct is of both an intentional and egregious nature, and the resulting academic sanction is a failing grade in the course, the student may lose privilege of evaluating a course instructor.

VI. GENERAL POINTS

1. All time limits specified in this policy should be extended for good cause.
2. This policy is not intended to address differences of opinion over grades issued by an instructor exercising good faith and professional judgment regarding a student's work.
3. Before any action is taken under this policy that may result in the withdrawal, suspension or expulsion of an international student; both the student and the academic program are advised to consult with the UNLV Office of International Students and Scholars.

VII. ACADEMIC INTEGRITY APPEAL BOARD

1. The Academic Integrity Appeal Board members will come from a variety of areas on campus and will serve two-year terms, with the exception of the members from the UNLV Faculty Senate Academic Standards Committee. To create the overall campus-wide pool of Academic Integrity Appeal Board members:
   1. The faculty of each college/school shall designate:
      - Two (2) faculty members
   2. Each Dean's Office/Academic Unit Equivalent shall designate:
      - Two (2) administrators/professional staff
      - Two (2) undergraduate students
• Two (2) graduate students

3. In addition, the following will be members of the pool:

   1. All members of the UNLV Faculty Senate Academic Standards Committee, during their term on the Committee (See VIII.B. below).

   2. When an appeal of an academic misconduct case is forwarded to the Academic Integrity Appeal Board, the hearing panel for each case will consist of the following, drawn from the pool:

      ▪ One (1) academic faculty member

      ▪ One (1) student

      ▪ One (1) administrative faculty or Academic Standards Committee Member.

2. Any member of the Academic Integrity Appeal Board pool may serve on a hearing panel unless there are compelling academic discipline issues to be addressed at such hearing. In such cases, specifically designated pool members may be assigned from the college/school in which the alleged academic misconduct occurred. All efforts to eliminate or avoid conflict of interest and bias will be given in each case.

3. Before serving on an Academic Integrity Appeal Board hearing, members shall receive an orientation and training on academic integrity and misconduct.

4. Recruitment, training and facilitation of the Academic Integrity Appeal Board will be the responsibility of the Office of Student Conduct, in collaboration with the UNLV Faculty Senate; and with appropriate authority and jurisdiction being afforded to university designees as dictated in the NSHE and UNLV Student Conduct Codes.

VIII. TRANSCRIPT NOTATION FOR ACADEMIC MISCONDUCT

1. In instances where it is determined that the academic misconduct is of both an intentional and egregious nature, the conduct sanction shall be recorded on the student's official and unofficial transcript with a transcript notation. The transcript of the student shall be marked "Disciplinary Notation due to Academic Dishonesty in (class) during (semester)." The transcript notation shall occur only upon completion of the student conduct proceedings. The conduct sanction notation shall not affect the grade point average, course repeatability or determination of academic standing. This conduct sanction notation is intended to denote a failure to accept and exhibit the fundamental value of academic honesty.

2. Once a conduct sanction notation is made, the student may file a written petition to the Academic Integrity Appeal Board to have the notation removed. The decision to remove the conduct sanction notation shall rest in the discretion and judgment of a majority of a quorum of the Board; provided that:

   1. At the time the petition is received, at least 180 calendar days shall have elapsed since the
conduct sanction notation was recorded; and,

2. At the time the petition is received, the student shall have successfully completed the designated non-credit Academic Integrity Seminar, as administered by the Office of Student Conduct; or, for the person no longer enrolled at the University, an equivalent activity as determined by the Office of Student Conduct; and,

3. The Office of Student Conduct certifies that to the best of its knowledge the student has not been found responsible for any other act of academic misconduct or similar disciplinary offense at the University of Nevada, Las Vegas or another institution.

3. Prior to deciding a petition, the Academic Integrity Appeal Board will review the record of the case and consult with the Office of Student Conduct and responsible instructor or appropriate chair/director/supervisor. The decision of the Appeal Board shall not be subject to subsequent Appeal Board reconsideration for at least 180 calendar days, unless the Appeal Board specifies an earlier date on which the petition may be reconsidered. Subsequent Appeal Board determinations pertaining to the removal of the conduct sanction notation may be appealed to the Vice President for Student Life. If the Vice President removes the conduct sanction notation from the student's transcript, the Vice President shall provide a written rationale to the appeal board.

4. No student with a student conduct notation on the student's transcript shall be permitted to represent the University in any extracurricular activity, or run for or hold an executive office in any student organization which is allowed to use University facilities, or which receives University funds.

Sexual Harassment Policy and Complaint Procedure

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.

When sexual harassment exists on the university campus, both the integrity and the learning environment are threatened. Students, community members, and employees should feel safe and comfortable here. The university environment is a place for learning and growing—sexual harassment interferes with that process.

UNLV strives to create and maintain a safe environment where everyone can enjoy freedom from sexual harassment and intimidation.

As a matter of course, the Board of Regents of the Nevada System of Higher Education and the University of Nevada, Las Vegas, have established policies regarding sexual harassment/discrimination and consensual
relations within the Nevada System of Higher Education (NSHE) Sexual Harassment Policy and Complaint procedure. It is available on the Human Resources web page at http://hr.unlv.edu.

The consensual relations policy and other valuable information about the federal laws and policies governing sexual harassment are available on the web page for the Office of the Vice President for Diversity and Inclusion at http://diversity.unlv.edu.

ACCEPTABLE USE OF COMPUTING AND INFORMATION TECHNOLOGY RESOURCES POLICY

STATEMENT OF PURPOSE

The purpose of this policy is to:

- Ensure that use of computing and information technology resources is consistent with the principles and values of the university including academic freedom, privacy, and security.
- Ensure that computing and information technology resources are used for their intended purposes and meet compliance requirements.
- Ensure the confidentiality, integrity, availability, reliability and proper performance of computing and information technology resources.

ENTITIES AFFECTED BY THIS POLICY

Entities affected by this policy include UNLV students and employees and anyone who accesses UNLV computing and/or information technology resources.

WHO SHOULD READ THIS POLICY

UNLV students and employees and anyone who accesses UNLV computing and information technology resources should read this policy.

THE CONTEXT

UNLV’s computing and information technology resources are dedicated to the support of the university’s mission and its core themes to promote student learning and success, advance and support research scholarship, and creative activity, and foster inclusion and community engagement. While advancing the mission and core themes, UNLV respects, upholds, and endeavors to safeguard the principles of academic freedom, freedom of expression, and freedom of inquiry. UNLV’s commitment to the principles of academic freedom and freedom of expression includes electronic information.

The use of computing and information technology resources in a manner consistent with the mission and ideals of the university and with the Nevada System of Higher Education (NSHE) Computing Resources Policy requires adherence to legal statutes, approved policies, and responsible behavior, including:

- using only assigned account(s) or account information
- respecting the privacy and rights of other computer users
- protecting the integrity of the physical environments in which information technology equipment resides
- complying with all pertinent software license and contractual agreements, and
- obeying all UNLV and NSHE regulations, state and federal laws.

UNLV seeks to create an atmosphere of privacy with respect to information and UNLV information technology resources. UNLV acknowledges its responsibilities to respect and advance free academic inquiry, free expression, reasonable expectations of privacy, due process, equal protection of the law, and legitimate claims of ownership of intellectual property. Such responsibilities are balanced with the
acknowledgement that users should be aware that they should have no expectation of privacy in connection with the use of UNLV resources beyond the explicit provisions of university policy and applicable federal and state law (e.g., NRS Chapter 239, Public Records). UNLV is a public institution, and because the university must be able to respond to lawful requests and ensure the integrity and continuity of its operations, use of the university’s information resources cannot be completely private.

Information on university computers and equipment may be subject to legal discovery and disclosed:

- In response to lawfully executed court ordered warrants or subpoenas
- As a result of the Nevada Public Records Act (i.e. public records request)
- In response to federal "Freedom of Information Act" requests
- In litigation involving the university and/or university employees
- In criminal investigations or investigations of student or employee misconduct
- In university investigations in accordance with NSHE or university policy.

When warranted, university staff are asked to assist in investigations and discovery and have direct responsibility for investigating and responding to some alleged offenses and incidents involving computing resources.

POLICY

1. Each person may use only those computing and information technology resources for which he or she has authorization.

Examples of violations include, but are not limited to:

a) asking another person for individual account passwords or attempting to obtain such passwords by any means
b) using resources without authorization
c) sharing university accounts with other persons without authorization
d) accessing files, databases, data or processes without authorization
e) using former system and access privileges without authorization after association with the university has ended.

2. Computing and information technology resources must be used in a manner that respects the privacy and rights of others.

Examples of violations include, but are not limited to:

a) accessing, attempting to access, or copying someone else’s electronic mail, data, programs, or other files without authorization
b) divulging sensitive, personal information without a valid business or academic reason
c) developing or using programs that may cause problems or disrupt services for other users
d) misrepresenting another user’s identity in any electronic communication (e.g., forging an e-mail address)
e) using electronic resources for deceiving, harassing or stalking other individuals
f) sending threats, "hoax" messages, chain letters, or phishing
f) intercepting, monitoring, or retrieving any network communication without authorization.

3. The access to and integrity of computing and information technology resources must be protected.

Examples of violations include, but are not limited to:

a) sharing passwords
b) purposefully propagating computer malware such as computer viruses, worms or Trojan Horses, except under secure conditions for
research or teaching purposes
c) preventing others from accessing an authorized service
d) degrading or attempting to degrade performance or deny service
e) corrupting information
f) altering or destroying information without authorization
g) making university systems and resources available to those not affiliated with the university
h) installing hacking or vulnerability tools in university systems without authorization
i) circumventing or attempting to circumvent security mechanisms without authorization.

4. Applicable laws and university policies must be followed.

Examples of violations include, but are not limited to:

a) uploading, downloading, distributing or possessing material deemed illegal under US and state laws, such as child pornography or classified information
b) using university computing or network resources for advertising, partisan political activities or commercial purposes (see the exception for "UNLV Student elections, which are governed by CSUN policy" in Section II.1. "Partisan Political Activity" and the definition of political activity from the NAC 284.770, both referenced in the Related Documents section)
c) making unauthorized copies of licensed software
d) downloading, using or distributing illegally obtained media (e.g., software, music, movies) using the campus network, whether on a UNLV-issued computer or not) accessing, storing or transmitting sensitive, personal information without a valid business or academic reason, or outside the parameters of limited personal use
f) transmitting sensitive, personal information without using appropriate security protocols (NRS 603A).

5. Limited personal or non-university use of UNLV computing and information technology resources is allowable only if ALL of the following conditions are met:

a) the use does not interfere with an employee’s duties
b) the cost and value related to use is nominal
c) the use does not create the appearance of impropriety or UNLV endorsement
d) the use is otherwise consistent with this policy.

Refer to the Office of Information Technology’s Policies and Procedures web page at http://oit.unlv.edu/about-oit/policies for additional information, including how to request an exception to this policy.

RELATED DOCUMENTS

Nevada System of Higher Education (NSHE) Computing Resources Policy. NSHE Title 4, Chapter 1, Section 22
http://www.scs.nevada.edu/default/index.cfm/about-us/policies-guidelines/

Guidelines for Scheduling University Facilities, Section II, A1 Partisan Political Activity
http://www.unlv.edu/visit/visitingcampus/reserve-space/guidelines#partisan

Nevada Administrative Code, 284.770 – Political activities
http://www.leg.state.nv.us/nac/NAC-284.html#NAC284Sec770

Nevada Revised Statutes, Chapter 603A – Security of Personal Information
http://www.leg.state.nv.us/NRs/NRS-603A.html

Nevada Revised Statutes, Chapter 239, State of Nevada Public Records Law
http://www.leg.state.nv.us/nrs/nrs-239.html
CONTACTS

Refer to the Office of Information Technology's Policies and Procedures web page at http://oit.unlv.edu/about-oit/policies for a list of individuals who can answer questions about the policy.

DEFINITIONS

These definitions apply to these terms as they are used in this policy.

Authorization - Permission to engage in activities otherwise deemed unacceptable only if required by existing policies, procedures, documented approval, assigned responsibility, or research or teaching purposes with adequate protections and in accordance with federal, state, and local laws.

Phishing - A scam by which an e-mail user is duped into revealing sensitive, personal or confidential information, which the scammer can use illicitly.

Sensitive, personal information - Any information about the individual maintained by the university, including the following: (a) Education, financial transactions, medical history, and criminal or employment history; and, (b) Information that can be used to distinguish or trace the individual's identity, including name, social security number, date and place of birth, mother's maiden name, or biometric records.

Student - Currently admitted to UNLV - or - enrolled in at least one course at UNLV - or - has completed at least one course at UNLV within the previous six academic semesters (spring, summer, and fall).

Systems - Devices and applications accessed via the network.

OIT COMPUTER LAB RULES

The UNLV computer labs are provided to support the academic computer needs of all currently enrolled UNLV students. Use of the labs for other purposes, commercial or otherwise, is prohibited. The rules below are intended to maintain an environment in the labs where all students can work effectively.

- Students must have their UNLV identification card with them to use any UNLV computer lab.
- An account that allows access to the UNLV computer labs can be obtained by currently enrolled UNLV students. However, this account is to be used only by the student to whom it is given. Students may not share their account with anyone else.
- Lab patrons may not duplicate or use copyrighted materials without appropriate licenses and/or permission.
- All users must respect the privacy of others, and courteous behavior is expected in the facilities.
- Lab patrons are expected to maintain the decorum of a library at all times. No user may engage in behavior that will disturb or distract other students. The use of cell phones in the facilities is restricted. Phones should be taken outside when receiving a call, and ringers should be turned to vibrate when possible.
- Changing the current hardware and software configuration is prohibited. To make specific or unusual hardware or software requests, contact the Facilities Supervisor for the lab.
- Students may not use their own paper in the facilities, and must use the paper provided by the labs. The reprographics
department can accommodate special paper and printing needs.

- The use of any tobacco product in computer facilities is prohibited.
- Users may not leave their personal belongings unattended or leave their workstation unattended without logging off for any extended period (i.e., more than 20 minutes). UNLV is not responsible for any items left unattended in the facilities.
- The repeated violation of lab rules may result in lab privileges being suspended.
- Users may not engage in behavior that creates a hostile atmosphere for other students wishing to use the lab. For further explanation of this rule see below:

Procedures Regarding Offensive Behavior in Computer Facilities

- The computer facilities at UNLV are solely intended to support the academic computer needs of all students. Offensive behavior by some can create an environment that detracts from the ability of others to fully utilize the facilities. Loudness or otherwise creating a disturbance is behavior incompatible with the proper function of the facilities. People persisting in engaging in such impermissible behavior will be asked to leave.
- The computer facilities at UNLV exist to assist students in their academic work. This includes both formal assignments and informal supplemental learning and research. The use of the computer facilities for non-academic purposes is prohibited. While offensive behavior is impermissible, using material, for academic purposes, that others might find offensive is protected by both the First Amendment and the NSHE Computing Resources Policy. However, as UNLV is a university community, the spirit of civility requires that all computer facilities users show respect and consideration for the sensibilities of others.
- Students who are planning to work with material that others might find offensive or that may violate Title IX, including but not limited to vulgar language, explicit sexual material or material from hate groups -- should attempt, whenever possible, to use computers whose screens are least likely to be viewed by passersby. If a student is offended by material displayed prominently on a computer screen, he or she should inform the facilities staff who will resolve the problem based on procedures established by the Computer Facilities Office. We all share the goal of keeping the UNLV computer facilities an environment where all students feel free to work. Your cooperation is greatly appreciated.

Student Email Policy

- Official email communications are intended to meet student, faculty, and staff academic and administrative needs within the campus community. Unless otherwise prohibited by law, the university and its faculty may communicate with students officially by email and will expect that such email messages will be received and read in a timely manner. Official UNLV email accounts are created for all admitted students. The addresses are all in the form of [name]@unlv.nevada.edu. These accounts must be activated by the students through the Office of Information Technology Help Desk or online.
If a student wishes to have email redirected from their UNLV official email to another email address, they may do so but at their own risk. The university is not responsible for the handling of email by outside vendors or departmental/unit servers, none of which are considered official student email accounts. Having email redirected does not absolve a student from the responsibilities associated with official communication sent to his or her [name]@unlv.nevada.edu account. Students are expected to check their email on a frequent basis in order to stay current with UNLV related administrative and course communications and to recognize that certain communications may be time-critical. Students must ensure that there is sufficient space in their accounts to allow for delivery of official email communications. It is a violation of the UNLV Code of Student Conduct to use email to impersonate a university office, faculty/staff member, another student or any other person. Email users should exercise extreme caution in using email to communicate confidential or sensitive matters, and should not assume that email is private or secure. It is also important that users are careful to send messages only to the intended recipients. Faculty will determine how electronic forms of communication will be used in their classes, and will specify their requirements in the course syllabus. Such use by students and faculty shall be consistent with this policy. The Student Email Policy is available at: http://www.unlv.edu/assets/provost/policies-forms/Student-email-policy.pdf

**Dangerous Weapon Policy**

It shall be the policy of the University of Nevada, Las Vegas that dangerous weapons will not be permitted on campus without the express written approval of the President of UNLV or his/her designee. Currently, the Director of Police Services serves as the President’s designee. This policy shall apply to all persons on the campus of the University of Nevada, Las Vegas, except law-enforcement officers in the performance of their duties.

Dangerous weapons include, but are not limited to, all weapons named in Nevada Revised Statutes (NRS) 202.265. For purposes of this policy, facsimile weapons are also banned.

Any person found carrying such weapons upon their person may be prosecuted for carrying concealed weapons. If the weapons are found on the campus, they shall be seized by the University Police. If the weapon, by its nature, is not illegal, it shall be returned to its owner when the owner has made arrangements for its removal from campus.

**Animal Policy**

The Nevada Revised Statutes empower the university to establish regulations for the health, safety, and welfare of all. In this interest, the university will restrict the presence of animals on campus by enforcing the following two guidelines:

* Any animal permitted on campus must be controlled by the owner or responsible person on a walking leash at all times except for Service Animals.

1. Any animal permitted on campus must be controlled by the owner or responsible person on a walking leash at all times except for Service Animals.
2. If the animal creates solid waste, it is the responsibility of the owner or person responsible to gather and properly dispose of it. Failure to comply with these
guidelines subjects the responsible party to a fine, or to the university withdrawing permission for access through the campus.
*Exception: Animals used for scientific purposes, in designated museums, service animals, or animals indigenous to an arboretum.

Alcoholic Beverages

Neither the storage, possession, nor use of alcoholic beverages is allowed on the university campus or other university property unless prior approval has been obtained in writing from the university president. The only exception is in the case of a student over the age of 21 in his or her own residence hall room. Student-sponsored events at which alcoholic beverages will be served may be held in the Student Union, on the Student Union courtyard or on the north field by those recognized student organizations that accept the responsibilities outlined in the UNLV Alcohol Events Policy. Copies of the UNLV Alcohol Use Policy may be obtained from the Office of the Vice President for Student Affairs, FDH-516.

Use of University Facilities

University facilities including campus grounds, are provided primarily for the support of the regular educational functions of the university and the activities necessary for the support of these functions. The university's functions take precedence over any other activities in the use of university facilities.

Freedom to speak and to hear will be maintained for students, faculty, and staff, and university policies and procedures will be used to provide a full and frank exchange of ideas. An effort will be made to allow a balanced program of speakers and ideas. An invitation to speak at the university does not imply that the university endorses the philosophy or ideas presented by the speaker.

Fundraising

No individual or organization may sell, solicit, or peddle on university property without permission nor may funds be solicited from alumni of the university without initial permission of the Vice President for University and Community Relations and final approval of the president.

Any fund-raising efforts by student organizations off campus must be approved by the Vice President for Student Life.

University facilities may not be used for the purpose of raising monies to aid projects not related to some authorized activity of the university or of university groups, and no efforts at conversion and solicitation by uninvited non-campus groups or individuals will be permitted on campus.
**Handbills and Posters**

The university campus is maintained for the orderly operation of the school. Other uses are permitted only when they will not interfere with the normal functions of the university. The campus is governed by a university sign policy regarding distribution and posting of handbills and other printed materials. The Student Union has separate signage policies involving its spaces and functions.

**Skateboard Policy**

The Nevada Revised Statutes empower the university to establish regulations for the health, safety, and welfare of all. In order for those who use sidewalks and walkways safely, the university bans the use of skateboards. The recreational use of skateboards is prohibited on the University of Nevada, Las Vegas campus. Violation will result in the university withdrawing permission for access through the campus and/or disciplinary actions. If any damage has occurred, the parties responsible will make restitution. If the situation involves a minor, the parents will be notified of their financial responsibility. Such a violation may result in confiscation of the skateboard.

**Smoking Policy**

The Nevada Revised Statutes place certain restrictions on the smoking of tobacco in state and public buildings. In the interest of human health and safety, the university prohibits the smoking of tobacco in university buildings. Smoking may be permitted only when so designated in areas identified by the facilities management department. Failure to comply with these guidelines subjects the responsible party to administrative action.

**Student Use of Hazardous Materials**

Certain courses may require students to work with potentially hazardous materials in the laboratory, darkroom, or workshop as part of the course work. Instructors will provide instructions regarding the safe handling of all materials. Questions regarding the use of these materials should be directed to the specific academic department.
Other Edu Opportunities

Early Studies Program
Nevada students wishing to enroll in university courses while still attending high school should refer to the Early Studies Program information under the Academic Success Center’s section of this catalog or email earlystudies@unlv.edu.

Honors College
Details on admission to the Honors College are outlined in the Honors College section of this catalog.

International Programs
The Office of International Programs coordinates and administers a growing number of quality international education experiences for interested students. Academic credit earned abroad may be used toward degree completion. Scholarships and financial aid are available to qualified students. For more information about new study abroad opportunities, financial aid, or scholarships, contact International Programs, Classroom Building Complex (CBC) Building B, Room 325 (CBC B325), 702-895-3896, international.programs@unlv.edu, http://internationalprograms.unlv.edu.

Study Abroad: UNLV students in a variety of academic disciplines may choose to study abroad for the summer, winter break, semester, or academic year on a UNLV-sponsored study abroad program. Currently, UNLV offers study programs in Australia, Brazil, Chile, China, Costa Rica, Cuba, Czech Republic, England, France, Germany, India, Ireland, Israel, Italy, Japan, Korea, Netherlands, New Zealand, Norway, Scotland, South Africa, Spain, Sweden, Thailand, Vietnam and other locations.

International Student Teaching: Students in the College of Education can apply to participate in international student teaching in a variety of locations worldwide.

Graduate Research: Graduate students can apply for funding, including Fulbright, through the UNLV International Programs office for some international research purposes.

Faculty Exchanges: UNLV students are further exposed to international experiences on campus by means of faculty exchanges. Academic colleges have welcomed visiting professors from around the world, while UNLV tenure-track faculty have the option to apply to teach abroad. These professors add an extra dimension to the classes they teach and to the academic life on campus by means of a dynamic exchange of cross-cultural ideas.

International Students: For specific entrance requirements and regulations for international students, please consult the Admissions section of this catalog.

Travel/Study Tours: The Division of Educational Outreach sponsors short tours to various countries. In most cases, tour leaders are university professors who present lectures prior to departure on the culture, geography, and natural history of the areas being visited.

National Student Exchange
UNLV is affiliated with the National Student Exchange (NSE) program, which offers qualified undergraduate students the opportunity to study for up to one year at another NSE member institution without paying out-of-state tuition. There are approximately 180 members of NSE throughout the United States, Puerto Rico, Guam, Virgin Islands, and Canada. For more information,
The Office of Student-Athlete Academic Services

The Office of Student-Athlete Academic Services (SAAS) provides academic advising and support services for over 400 of UNLV's student-athletes. The office is committed to assisting student-athletes in earning a degree of their choice, while fulfilling UNLV, Mountain West Conference (MWC), and National Collegiate Athletic Association (NCAA) eligibility requirements. Further, every effort is made to instill in each individual those skills necessary to become an independent, responsible member of the UNLV student body. SAAS is committed to providing an environment that facilitates the academic success of every student-athlete. SAAS' goal is to prepare student-athletes to be fully accountable for their academic progress, resulting in graduation, personal, and professional development.

The academic services staff provides a variety of academic services, to both prospective student-athletes and currently enrolled UNLV student-athletes, per NCAA Bylaw 16.3.1. These services include, but are not limited to:

- Providing UNLV athletic department coaching staff preliminary evaluations of the eligibility and admission status of prospective student-athletes (recruits).
- Assisting student-athletes in course selection, planning, and scheduling for their specific UNLV degree program.
- Monitoring the academic progress of student-athletes toward degree program requirements.
- Informing student-athletes of the myriad NCAA, MWC, and UNLV requirements they must satisfy in order to remain eligible to participate in intercollegiate athletics at UNLV.
- Monitoring the eligibility status of student-athletes and providing direction for meeting eligibility requirements.
- Assisting the faculty athletics representative (FAR) in the eligibility certification of all student-athletes.
- Providing assistance and direction to student-athletes regarding UNLV's non-academic support services, which may help them adjust to and cope with the challenges of university life.
- Creating and administering programs that will support and enhance the academic performance and potential of student-athletes.
- Preparing student-athletes for graduation and the ensuing challenges, including employment and post-graduate education.
Graduate & Professional Programs

Graduate College
Offering more than 155 graduate programs, including 46 doctoral and professional degrees, UNLV provides wide-ranging and unique areas of study to more than 5,000 graduate and professional students. The Graduate College provides strong leadership to cultivate outstanding graduate education, extend educational opportunities to graduate students, ensure the consistent and fair application of policies, and provide support for graduate faculty and programs by cultivating an environment in which the highest quality graduate scholarship and research can thrive. Our guiding principles are: excellence, equity, diversity, opportunity, and impact.

The university's advanced degree programs are based on close working relationships between students and faculty. Graduate students, by definition, are pursuing advanced study to become specialists in their field. As such, graduate students apply for admission through the Graduate College and the particular academic department in which they choose to study. Once admitted, graduate students must follow their prescribed program of study under the mentorship of a faculty advisor in their field. Graduate education is rigorous and research-based; students learn the cutting edge knowledge and scholarship in their discipline(s), and doctoral students all engage in research or creative activity that creates new knowledge. For guidance on everything from the application process, to degree and graduation requirements, as well as policies that govern graduate education, prospective and current graduate students are encouraged to visit the UNLV Graduate College website and to carefully review the UNLV Graduate Catalog. Graduate faculty and students are responsible for being aware of and observing the degree program requirements, policies, and regulations outlined in the Graduate Catalog. For additional information or guidance about UNLV's outstanding graduate programs, please contact the Graduate College.

William S. Boyd School of Law
The William S. Boyd School of Law at the University of Nevada, Las Vegas, offers both a three-year, full-time day program and four-year, part-time programs (day and evening) for the Juris Doctor degree.

The mission of the 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 law school 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 skills they gain for their own personal development and for the good of society.

Curriculum: The Boyd School of Law maintains a curriculum that responds to the needs of the students as well as the needs of the profession and adopts for its curriculum the best aspects of traditional and skills-oriented legal education. The core curriculum is designed to teach students to "think like lawyers," to enable students to comprehend, analyze, and synthesize complex material, and to effectively communicate solutions. Throughout the curriculum, the Boyd School of Law emphasizes writing, professionalism, and community service. Students
must complete 89 hours of course work in the J.D. program.

**Selection of Applicants:** To be eligible to apply for admission to the Boyd School of Law, applicants must have an undergraduate degree from an accredited four-year college or university and must have taken the Law School Admission Test (LSAT). The Boyd School of Law seeks to enroll an accomplished and diverse group of women and men who will contribute to the enrichment of the educational program of the school and to the community and the profession after graduation. The law school seeks students who have demonstrated significant accomplishments in their lives, for example, by achieving distinguished academic records as undergraduate or graduate students, by engaging successfully in important and challenging careers, by providing significant service to their communities, or by meeting challenges associated with their race, ethnicity, gender, economic status or disability. The law school seeks to have a student body that is both academically well-qualified and diverse. The presence in the school of students who have diverse backgrounds, attitudes, and interests contributes to the breadth and quality of the classroom and non-classroom dialogue, which is a critical element of legal education.

**Accreditation:** The William S. Boyd School of Law at the University of Nevada, Las Vegas is fully accredited by the American Bar Association and is a member of the Association of American Law Schools.

**More Information:** For further information about the William S. Boyd School of Law, please call 702-895-4189 or visit the law school’s website at www.law.unlv.edu.

**Pre-law Students:** Law schools neither prescribe nor encourage any specific undergraduate major. A broad general education with emphasis on courses that develop clear and systematic thinking is better preparation for the study of law than is specialized study in subjects closely related to law. Most important for prospective law students is that they develop a command of the English language and the ability to communicate ideas clearly, logically, and critically.

Students are encouraged to discuss pre-law interests with an appropriate staff member in the Wilson Advising Center at 702-895-1997.

Phi Alpha Delta, a pre-law fraternity associated with the pre-law association, is also very active in helping pre-law students. For information on joining, contact the Consolidated Students (CSUN) office.

**Pre-Professional Students**

Many students plan to seek admission to health-related professional schools that provide advanced degrees in specialties such as medicine, osteopathic medicine, veterinary medicine, dentistry, optometry, pharmacy, podiatry and chiropractic. UNLV provides a complete array of courses that are required by professional schools for admittance. Students who plan to apply to a professional school should be aware of the existence of the UNLV Pre-Professional Interview Committee. This committee consists of faculty from a variety of disciplines, including non-science areas, and health care professionals from the community. The committee interviews students prior to their applications to professional schools and writes letters of recommendation. For more information about pre-professional preparation, contact the Chair of the UNLV Pre-Professional Interview Committee, Joseph Nika, at 702-895-3170.

**School of Dental Medicine**

The UNLV School of Dental Medicine, which accepted its Inaugural Class in August of 2002, is designed to serve our local community and the
State of Nevada. The School of Dental Medicine provides world class oral health education while providing for the dental needs of Nevada residents. The School of Dental Medicine is a driving educational force that is improving the health of the citizens of Nevada through its innovative programs in oral healthcare services to the community through its evidence-based program. Education of dental students is accomplished through a competency-based curriculum with a strong foundation in biomedical sciences and an innovative, vertically integrated team approach for clinical instruction and delivery of patient care. The School of Dental Medicine has a diverse and distinguished world class 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. Student doctors are exposed to in-depth studies of biological and clinical sciences as well as biomedical and bio-ethical disciplines. They encounter a broad spectrum of clinical experiences to prepare them for entry into the profession. These experiences begin in year one of the curriculum, and clinical responsibilities expand in scope and depth throughout the four years. They also have exposure to business and financial management designed to meet the challenges of dental practice. Furthermore, they are introduced to principles of research, have an opportunity to conduct independent research and are encouraged to pursue scholarly activities with the possibility of creating a career in academic dentistry.

Training occurs 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. These facilities are also home to the Advanced Dental Education Programs of Orthodontics, Pediatric Dentistry and General Practice. Students have access to the latest technology and partner with other health care professionals in diagnosing disease and treating patients. By the time of graduation, students are competent and confident to begin a rewarding career as a provider of comprehensive oral health care.

Whether the goal is to become a dental educator or a dental professional engaging in the private practice of dentistry or to further professional development in one of the dental specialty areas, the faculty and staff at UNLV's School of Dental Medicine are poised to be partners in building a successful career.

Dental Medicine is awarded on a competitive basis to individuals who have completed the interview process at the institution. Invitations for interview are extended to applicants deemed appropriate and eligible for consideration. Preference is given to Nevada residents.

**Admission Requirements and Selection of Applicants**

In agreement with guidelines established by the Commission on Dental Accreditation and the American Dental Education Association, admissions policies at the UNLV School of Dental Medicine are based on specific objectives, criteria and procedures designed to identify students with high standards of integrity, motivation, and resourcefulness and with the basic knowledge and attitude required for completing the integrated curriculum. Acceptance to the UNLV School of

**Prerequisite Courses:**

- One year of general biology with lab
- One year of general chemistry with lab
- One year of organic chemistry with lab
- One year of general physics with lab
- One semester of biochemistry or equivalent
- One year of English
- One semester of human anatomy or one year of anatomy and physiology

It is highly recommended that the applicant complete these prerequisite courses prior to filing an application or taking the Dental Admission Test. It is required that all above prerequisite courses and units be completed by June of the year of intended enrollment.

**Minimum College Units:** A minimum of 90 semester units, or the equivalent completed or in progress, at the time of application, in an accredited college or university in the United States or Canada is required. A minimum of 30 semester units must be completed at a four-year institution. Selection factors include: grade point average, Dental Admission Test, letters of evaluation, interview, commitment to dentistry, dental/work experience, community service, and interpersonal communication skills.

For more information about the School of Dental Medicine, please call (702)-774-2520 or visit http://dentschool.unlv.edu.

**University of Nevada School of Medicine (UNSOM)**

The School of Medicine was established in 1969 as a two-year basic science program. It converted to a full four-year M.D. degree program in 1977 and graduated its first class of physicians trained in Nevada in 1980.

The goal of the school is to graduate students who are knowledgeable, caring, skillful, responsible physicians capable of entering any specialty training program and delivering high-quality health care to the individual, the family, and the community.

Unique features of the UNSOM program include small class size, hands-on clinical experience beginning in the first weeks of medical school, access to top level researchers, and a culture of honor and professionalism.

The School of Medicine is fully accredited by the Liaison Committee on Medical Education.

**Curriculum:** The first two years of instruction provide opportunities to learn the concepts, skills, and professional values essential to the practice of medicine, including the basic sciences such as anatomy, behavioral sciences, biochemistry, cell biology, microbiology, pathology, pharmacology, and physiology; the foundation skills in patient care necessary for entering the clinical years; and courses in clinical problem solving.

The third and fourth years, the clinical years, are spent in affiliated hospitals, clinics, and ambulatory care centers throughout the state. Students are required to complete the following clinical rotations under the close supervision of our faculty: family medicine, internal medicine, obstetrics and gynecology, pediatrics, psychiatry, and surgery. Students will also take "Clinical Reasoning in Medicine" which is a case-based, interdisciplinary, semester-long course.

Fourth-year medical students may choose from a number of elective courses both in Nevada and out-of-state. Students are required to spend four weeks with a rural Nevada physician in order to become acquainted with the practice of medicine in a small community.

Students apply to postgraduate residency programs through the National Resident Matching Program and are accepted to many of the top programs in the nation.
**Student Profile:** Students attending the University of Nevada School of Medicine have completed four years of college and, in some cases, have earned graduate degrees. Prior to entering the School of Medicine, students have demonstrated strong academic ability at the undergraduate level and an aptitude for medical science as reflected by their MCAT scores. Some have completed military service or have entered medical school from another field or profession. The average age is 23, and many students are married and have families. Almost all students have extensive health care experience, often as volunteers. The school encourages applicants from all socio-economic, racial, religious and educational backgrounds, and genders. Applications from members of minority groups who meet residency criteria are especially encouraged.

**Faculty:** The faculty of the University of Nevada School of Medicine is dedicated to the training of caring and competent physicians who will be responsive to their patients and local communities. In addition to their teaching duties, distinguished faculty members also make significant contributions to the advancement of medical science. Researchers at the school have achieved major breakthroughs in cancer biology, in the epidemiology of new or re-emerging infectious diseases, and the discovery and function of ion channels in both heart and gastrointestinal smooth muscle. Ongoing research projects may lead to better diagnosis and treatment of diseases of the digestive tract, AIDS, cancer, and cardiovascular diseases as well as a better understanding of the effects of stress and nutrition on the body. The school operates a kidney and pancreas transplant program and a trauma center at University Medical Center in Las Vegas.

**Selection Factors:** The School of Medicine seeks well-rounded, academically prepared individuals who have completed a minimum of three years of college. A bachelor’s degree is preferred. Candidates are required to take the Medical College Admissions Test (MCAT) no later than the fall prior to the year of anticipated entrance. Applicants are evaluated on the basis of:

- Nevada residency
- Academic performance
- Personal interviews
- Nature and depth of scholarly activities
- Extracurricular community service or related health care activities
- Academic letters of reference

Applicants are encouraged to have a broad educational background and to enroll in an in-depth curriculum that will lead to a discipline-oriented major, e.g., biology, English, or psychology. However, no specific major is favored over any other. The School of Medicine does require specific courses as a requisite for admissions:

- General chemistry 8 credits
- Organic chemistry 8 credits
- Biology 12 credits (Three credits must be upper-division)
- Physics 8 credits
- Behavioral sciences 6 credits (Three credits must be upper division and deal with the psychological stages of the life cycle, such as human growth and development, adolescence, aging, human sexuality, abnormal psychology, family dynamics or medically oriented sociology.)

Supplementary courses strongly recommended as useful to the study or practice of medicine but not required for admission include: microbiology,
genetics, biochemistry, statistics, and mathematics through introductory calculus.

**Residence Requirements:** First priority for acceptance is given to residents of Nevada. Students are considered Nevada residents if:

1. Applicants have resided in Nevada for a minimum of 21 months prior to matriculation.
2. Applicants’ parents are current Nevada residents and the applicant is under 27 years of age.

Non-U.S. citizens must have permanent resident visas and be Nevada residents to be considered. A limited number of out-of-state applications with strong residential ties to Nevada are considered each year. Applicants from Western states without medical schools - Alaska, Idaho, Montana, and Wyoming - are also considered. The School of Medicine is a member of the Western Interstate Commission for Higher Education (WICHE).

**More Information:** Students or prospective students with questions regarding the School of Medicine’s programs should contact:

Dean’s Office, Pre-professional Committee
College of Sciences, University of Nevada, Las Vegas
Las Vegas, NV 89154-4023

Office for Admissions and Student Affairs
2040 W. Charleston Blvd., Fourth Floor, Medical Education Building
University of Nevada Las Vegas School of Medicine (UNLVSOM)
Las Vegas, NV 89102-2231
702-895-4573

**Academic Calendars:**
https://www.unlv.edu/medicine/academic-calendar
Academic Success Center

(702) 895-3177 / asc@unlv.edu
https://www.unlv.edu/asc

Purpose and Focus
The Academic Success Center (ASC) is a resource and service hub that partners with the UNLV campus community to welcome, guide, and support students through their academic careers. The ASC offers a wide variety of programs that include academic advising for Exploring Majors and non-degree seeking students, campus-wide tutoring and supplemental instruction, academic success coaching, math bridge programs, first- and second-year seminars for Exploring Majors, student-athlete services, scholarship programs, a learning specialist program, and much more.

Academic Success Center Service Areas

Academic Advising (Exploring Majors and Major Pathways Students)
Exploring Majors and Major Pathways students are required to meet with an Academic Advisor in the ASC at least once a semester, to discuss their goals, interests, and major/career plans. The Academic Advising Unit also has tools designed to help with the exploration of various majors, minors, careers, and continuing educational pursuits. The planning process for Exploring Majors begins with new students and continues each time a student meets with an Academic Advisor. Upon earning 30 credits, students are required to schedule an appointment to discuss future plans in more detail. Upon completion of 48 cumulative credits, students are required to change from Exploring to a degree-granting major. Students can also decide to change their majors at any time as long as they meet the entrance requirements for the major selected.

Change of Major Policies
Students can change their major to the Academic Success Center as an Exploring Major if they are: 1) unsure of a major/career path, 2) are in a Good Academic Standing with a minimum UNLV or transfer GPA of 2.00, and 3) have earned fewer than 48 cumulative credits.

Probation/Suspension
A student may be subject to a one-semester college/center suspension after being on academic probation (less than 2.00 cumulative UNLV GPA) for two consecutive semesters. Students wishing to appeal the suspension may submit a Reinstatement after College Suspension form to the Academic Success Center Academic Standards Committee for review. Also, a transfer student entering a probation contract who fails to fulfill that contract may be subject to college/center suspension. All students are subject to University policies regarding University probation and suspension.

Undergraduate Non-Degree Seeking Students
Undergraduate non-degree seeking students can take a maximum of eight credits per semester. No more than 24 credits earned as a non-degree seeking student at UNLV may be applied toward a bachelor’s degree at UNLV. Non-degree seeking students who are close to earning or have earned 24 credits are highly encouraged to apply for degree-seeking status.
Credit Overload Petitions
Degree-seeking freshmen may take a maximum of 17 credits per semester and sophomores through seniors may take a maximum of 18 credits per semester. Degree-seeking and non-degree seeking students wanting to enroll in more semester credits than their standing allows may submit a credit overload petition. Credit overload petitions will be considered only for students who possess at least a 3.00 UNLV GPA or at the most recently attended institution and/or a combination of all institutions attended.

Tutoring
The ASC provides a campus-wide tutoring program for a variety of UNLV courses. Tutoring is available in the Lied Library, second floor, and College of Engineering Tutoring LAB TBE A207. Subjects typically tutored every semester include, but are not limited to, math, biology, chemistry, physics, economics, accounting, and foreign languages. Additional subjects are added each semester based on tutoring requests and availability. Tutoring is provided throughout the school year, including the summer. Additional information about tutoring and the schedule is available at www.unlv.edu/asc or on Facebook at UNLV Tutoring. The mission of the program is to enhance a student's overall academic experience at UNLV by providing a respectful, educational environment to reinforce classroom learning. Students who have excelled in their chosen subject(s) and are highly recommended by a UNLV faculty member, are hired throughout the school year as peer tutors.

Supplemental Instruction
The UNLV Supplemental Instruction (SI) Program is a peer-led study group that partners with historically difficult courses and provides an interactive environment to assist students with course concepts and discuss learning strategies. Each group is conducted by an SI Leader who has recently completed the course with a grade of B or better and is highly recommended by partnering academic faculty. SI is free for students in partnered courses and is typically offered for freshman and sophomore level Biology, Chemistry, Math, and Physics. In a partnered course, frequent SI attendance by students has been correlated to increased rates of performance and retention when compared to non-SI participants. Please feel free to visit our website for a current listing of courses and session times. https://www.unlv.edu/asc/supplemental-instruction.

Bridge Programs
Expect Success Math Bridge is a free, on-campus program sponsored. It is designed to help UNLV students who are placed into Math 95, 96, or 120. The program aims to help students test into their college level math requirement. The program combines online learning with in-class assistance to help students gain a better understanding of core math concepts and overcome their math anxiety. The program uses an online platform which students access in our computer labs for the duration of the program. Class time is split between online work with tutor assistance, and tutor-led activities. Students are also able to access the platform at home if they wish to work on concepts outside of class time. Experienced tutors lead the Math Bridge Program. They assist students as they work through an online program and give lessons on math concepts. Our tutoring team allows for individualized student attention as well as the chance to work in small groups by addressing problem areas such as proper note taking, study skills, and test anxiety. By addressing these issues, we help students to gain confidence and feel empowered about their ability to learn. Students are also able to meet and interact with their peers in the same major and become familiar with the UNLV campus before courses start in Fall.
Rebel PRIDE: College Readiness

Rebel PRIDE is a free 2-day conference for students and parents/guardians to help with their transition to UNLV. Students will be able to interact with faculty, staff, and other students to prepare and have a smooth transition into college. You will learn about UNLV and the many resources offered!

PRIDE stands for:

P – Develop a peer network
R – Connect with campus resources
I – Learn valuable UNLV information
D – Participate in discussions about transitioning to college
E – Engage with faculty

Academic Success Coaching Program

Academic Success Coaches help students develop strategies for successfully navigating college academically, socially, and personally. Coaches individualize their approach with every student by engaging in the processes of reflection, goal-setting, and planning. The Academic Success Coaching Program empowers students by helping them:

- Objectively assess obstacles to academic success
- Establish attainable educational goals
- Create and maintain positive daily routines
- Improve time management and organizational skills
- Develop a positive mindset
- Study more effectively and efficiently
- Engage in courses through participation and effective note taking
- Prepare for exams
- Build rapport with professors
- Utilize campus resources

First-Year Seminar for Exploring Majors (COLA 100E)

The ASC, in partnership with the College of Liberal Arts, provides a 3-credit first-year seminar designed to help students build a strong foundation for academic success. COLA 100E: First-Year Seminar for Exploring Majors addresses topics regarding learning strategies, critical thinking, citizenship, ethics, multiculturalism, writing, and other topics relating to student development. Major and career exploration is also intertwined throughout the course content, as students are exposed to a blend of information and experiences to help them explore potential major and career choices.

Second-Year Seminar for Exploring Majors (ENG 231E)

The ASC partners with World Literature to offer ENG 231E, which is a second-year seminar (SYS) designed for Exploring Majors with the theme, "Finding Your Path." It is a three-credit course that explores issues of identity and vocation through the reading of original literature from antiquity to the present day. ENG 231E reinforces the University Undergraduate Learning Outcomes (UULOs) introduced in the first-year seminar, COLA 100E.

Scholarships

The ASC annually offers the ASC Dean's Award for qualifying Exploring Majors. In order to be eligible for the scholarship, Exploring Majors must be in good academic standing (GPA of 2.0 or higher) and be enrolled full time. Students submit applications to the ASC Advising Unit in the spring, and successful awardees are notified in the summer for fall and spring semesters.

The ASC also offers the Hixson-Lied Success Scholars Program during the Fall and Spring semesters for selected incoming and current undergraduate students. The scholarship is geared toward students who have overcome significant challenges (academic, economic, etc.) to find success in-and-out of the classroom. For more information, visit www.unlv.edu/asc or email hlscholars@unlv.edu.
Student-Athlete Academic Services
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- Assisting student-athletes in course selection, planning, and scheduling for their specific UNLV degree program
- Monitoring the academic progress of student-athletes toward degree program requirements.
- Informing student-athletes of the myriad NCAA, MWC, and UNLV requirements they must satisfy in order to remain eligible to participate in intercollegiate athletics at UNLV
- Monitoring the eligibility status of student-athletes and providing direction for meeting eligibility requirements
- Assisting the faculty athletics representative (FAR) in the eligibility certification of all student-athletes
- Providing assistance and direction to student-athletes regarding UNLV’s non-academic support services that may help them adjust to and cope with the challenges of university life
- Creating and administering programs that will support and enhance the academic performance and potential of student-athletes
- Preparing student-athletes for graduation and the ensuing challenges, including employment and post-graduate education

Learning Specialist Program
In partnership with the Disability Resource Center and the PRACTICE, the Learning Specialist Program provides services to undergraduate UNLV students who face challenges that pose barriers to their academic success.

Dual Enrollment Program
The ASC hosts the UNLV Dual Enrollment Program, which provides highly-motivated high school students an opportunity to get a head start on their college education by enrolling in UNLV courses before high school graduation. Dual Enrollment students have the opportunity to earn dual credit (university and high school credit) with the approval of their high school counselor. In addition, Dual Enrollment students receive full access to ASC resources, such as tutoring, advising and academic success coaching. The Dual Enrollment Program attracts some of the best and brightest students in Clark County and creates a more streamlined bridge from their high school to UNLV.
Lee Business School

Purpose and Focus
The Lee Business School is one of a select number of professional schools of business accredited by the AACSB International — The Association to Advance Collegiate Schools of Business. The school offers academic programs designed to prepare students to be successful in the global marketplace and to meet the challenges of a constantly changing international environment. Graduates are also well-prepared to undertake advanced studies in business, economics, public administration, or law through the combination of liberal arts and professional business education. Both the theory and the practice of business are emphasized throughout the curriculum. Graduates of the Lee Business School acquire basic skills in accounting, economics, and statistics as well as specific skills in the areas of people management, asset and information technology management, and product and service management. The Lee Business School curriculum is structured so students not only acquire an understanding of business operations but also are provided the opportunity for in-depth study in an area of concentration. Integrated throughout the curricula are topics reflecting the unique sectors of Nevada’s economy such as tourism, gaming, and nonprofit and governmental agencies. The development of intellectual and professional competence is stressed in all areas of study.

Accreditation
Northwest Commission on Colleges and Universities
AACSB International — The Association to Advance Collegiate Schools of Business

Departments, Majors and Undergraduate Degrees

Department of Accounting
Accounting — Bachelor of Science in Business Administration

Department of Economics
Economics — Bachelor of Arts
Economics — Bachelor of Science in Business Administration
Real Estate and Urban Economics — Bachelor of Science in Business Administration

Department of Finance
Finance – Bachelor of Science in Business Administration

Department of Management, Entrepreneurship and Technology
Entrepreneurship — Bachelor of Science in Business Administration
Information Management — Bachelor of Science in Business Administration
Management – Bachelor of Science in Business Administration

Department of Marketing and International Business
International Business — Bachelor of Science in Business Administration
Marketing — Bachelor of Science in Business Administration

Minors
Lee Business School
Business Administration (for non-business majors only)
Business Analytics

Department of Accounting
Accounting
Auditing
Department of Economics
Economics
Real Estate

Department of Finance
Finance
Risk Management and Insurance

Department of Management, Entrepreneurship and Technology
Entrepreneurship
Global Entrepreneurship Experience Minor
Information Management
Management

Department of Marketing and International Business
Business Spanish Experience
International Business
Marketing

Graduate Degree Programs
Please refer to the Graduate Catalog for information regarding graduate programs.

Catalog Clarifications and Corrections
The Lee Business School periodically posts catalog clarifications on the Undergraduate Advising website. Please go to www.unlv.edu/business/advising for more information. The Lee Business School periodically e-mails updates to students via their official UNLV e-mail accounts.

Student Responsibility
Academic success requires that students be diligent and proactive in their educational careers. The ultimate responsibility for that success rests with the student. The Lee Business School expects students to be prepared to participate actively and knowledgeably in the advising process. Therefore, we expect students to understand their degree requirements; meet prerequisites; seek clarification as needed; and behave responsibly, maturely, courteously, and in accordance with the Student Code of Conduct. All Lee Business School students must activate and monitor their UNLV e-mail accounts.

Admission to the Lee Business School
Upon admission to UNLV, all eligible (see below) business students are classified as pre-major students. While classified as such, students must complete the pre-major courses required by the Lee Business School as well as general-education courses (also called university core). Students may enroll in upper-division courses (300- or 400-level) only after satisfying the specific requirements listed below and after having been admitted to upper-division status.

Freshman admits
Lee Business School pre-major (BUSPRE) admissions standards: All students must place into MATH 124 - College Algebra or higher and into ENG 101 (or ENG 113 or ENG 101E or ENG 113E) - Composition I or higher.

Transfer students
Lee Business School pre-major (BUSPRE) admissions standards: All students must place into MATH 124 - College Algebra or higher and into ENG 101 (or ENG 113E or ENG 101E or ENG 113E) - Composition I or higher. In addition, transfer students must have a minimum 2.75 cumulative GPA from all schools as calculated by UNLV Office of Admissions.

UNLV students who change major to pre-major (BUSPRE)
Lee Business School pre-major (BUSPRE) admissions standards: All students must place into MATH 124 - College Algebra or higher and into ENG 101 (or ENG 113 or ENG 101E or ENG 113E) - Composition I or higher. UNLV students changing majors must have a minimum 2.50 UNLV GPA.

Pre-major designation and requirements: While classified as a business pre-major, students must satisfactorily complete the requirements for admission to a business major before enrolling in
upper-division (300- and 400-level) business courses.

For the BSBA degree program, those requirements are: (1) 55 credit hours completed or in progress; (2) completion of the eight pre-major courses with grades of C (2.00) or better; (3) computer proficiency; and (4) a minimum 2.75* UNLV GPA. For more information about satisfying computer proficiency, contact Undergraduate Advising.

For the BA in Economics, those requirements are: (1) 55 credit hours completed or in progress, (2) completion of all three pre-major courses with grades of C or better (ECON 102, ECON 103 and ECON 261); and (3) a minimum 2.75* UNLV GPA.

Pre-major courses for the BSBA degree program:
ACC 201, ACC 202, COM 101, ECON 102, ECON 103, ECON 261, ENG 102, and select one from MATH 127, MATH 128, MATH 132, MATH 176, MATH 181 or MATH 182. (Minimum grade of C [2.0] or better required in each course.)

Pre-major courses for the BA in Economics: ECON 102, ECON 103 and ECON 261. (Minimum grade of C (2.00) or better required in each course.)

Application to the major (upper division): Students who have met the pre-major requirements may apply to the major by obtaining an application online (www.unlv.edu/business/advising) or from the Undergraduate Advising office. Notification of the admission decision will be e-mailed to the student's Rebelmail address. A business student who has already been admitted to upper-division business status and wants to change from one business major to another business major must have a minimum 2.0 UNLV GPA to apply for the major change.

*It is possible that the minimum GPA for admission to the Lee Business School and/or to the major may change.

Transfer Policies

Upon admission to UNLV, the Office of Admissions reviews transfer transcripts to determine which courses transfer to UNLV for university credit. The Lee Business School then evaluates the accepted courses to determine whether and how they may apply to a business degree. To determine the degree applicability of a course, the student may be asked to submit an official course description, syllabus, and/or other materials. In addition to the university's transfer requirements, the Lee Business School has the following conditions for transfer credit.

1. Transfer credits toward upper-division business requirements and toward Microsoft Office proficiency (or equivalent) or IS 101 (or equivalent) are considered only for those courses completed within the seven-year period prior to admission to the business program.

2. Only transfer business courses completed with a grade of C (2.00) or better may be considered for degree applicability. The Lee Business School does not accept satisfactory/fail credit for business courses except for the approved CLEP credits and advanced placement credits.

3. Regardless of the number of transfer credits awarded, transfer students must complete at least 50 percent of the required business courses or credits (including pre-major, upper-division business courses and major courses) in residence at UNLV. In addition, at least 50 percent of the major courses must be completed in residence at UNLV. Those students pursuing a business minor must complete 50 percent of the required courses in residence at UNLV.

4. Only those upper-division business courses taken at an AACSB-accredited school may
be considered for upper-division business requirements at UNLV.

5. The Lee Business School does not accept DANTES credit for upper-division business requirements.

6. The Lee Business School does not grant transfer credit for the business capstone courses (BUS 496/497/498), therefore, this course must be taken at UNLV.

7. In accordance with the policies of accrediting authorities, the Lee Business School does not accept lower-division courses for upper-division business requirements.

General Academic Policies

Minimum C (2.0) Grade Requirement
Lee Business School requires a minimum C (2.00) grade in each business course required for a business degree or minor. Students must earn a minimum C (2.00) grade in the prerequisite to be able to take subsequent courses. Additionally, students must earn a minimum C (2.0) grade in each non-business course that is required as a prerequisite for a business course.

Maximum Number of Attempts
The maximum number of attempts for each business course is three, regardless of the institution at which the courses are taken. Failure to earn the minimum required grade within three attempts may make the student ineligible for a particular business major/minor or for any business degree in the Lee Business School.

For each upper-division accounting (ACC) course, the maximum number of three attempts includes earned grades, withdrawals and audits.

Advanced Placement, CLEP Credits and Satisfactory/Fail Grades
The Lee Business School accepts credit for Advanced Placement and CLEP only for those courses accepted by the university. For more information about Advanced Placement and CLEP, read the Admissions section of this catalog.

The Lee Business School does not accept satisfactory/fail credit for business courses except for the approved Advanced Placement and CLEP credits.

Probation and Suspension
Lee Business School adheres to the university's policies on probation and suspension. Please refer to the appropriate sections of the Undergraduate Catalog for details on these policies. Students on probation or students returning to UNLV after suspension must meet with an advisor for academic planning.

Business Capstone Course
Each business student pursuing the BSBA degree must select one of the Lee Business School capstone courses, selecting from BUS 496, BUS 497 or BUS 498. The student's major may dictate which capstone course the student must take. Because the Lee Business School does not grant transfer credit for the business capstone course this requirement must be satisfied at UNLV. Only degree-seeking students admitted to the Lee Business School BSBA degree program may be eligible for the capstone course. Check the current undergraduate catalog’s course descriptions for prerequisites for the capstone courses. Although the school offers summer courses, the college cannot guarantee that the specific courses a student needs will be offered. Please contact Undergraduate Advising for details.

Dual Major, Dual Degree and Minor within Lee Business School
Students may pursue more than one business major, degree or minor. To do this, students must successfully complete all the courses required for each business major, degree and/or minor. Additionally, a minimum of 12 credits must be unique to the additional business majors, degrees and/or minors. A course is considered unique if it is
not satisfying a requirement for another business major, degree and/or minor.

The GPA requirement for admission to additional (second, third, etc.) business majors and degrees is the minimum requirement at the time of the student's admission to these additional majors, regardless of when the student matriculated to UNLV or to the Lee Business School.

Students pursuing a dual degree or dual major must complete at least 50 percent of the required business courses or credits (including pre-major, upper-division business courses, and major courses) in residence at UNLV. In addition, at least 50 percent of the major courses must be completed in residence at UNLV. These policies apply regardless of the number of transfer credits awarded.

Students pursuing a minor must complete at least 50 percent of the minor courses in residence at UNLV, regardless of the number of transfer credits awarded.

For more information about the requirements for dual major, dual degree or minor, please read the information in the Academic Policies section of the Undergraduate Catalog.

Graduation Requirements
In addition to the university's degree requirements, students pursuing a degree from the Lee Business School must earn at least 120 degree-applicable credits, successfully complete the required courses, and meet the grade and GPA requirements.

To earn a Bachelor of Science in Business Administration degree students must have at least a 2.00 GPA* in each of the following: the major, the business core (includes both the pre-major and the upper-division business courses), and UNLV overall. Please refer to the individual departmental sections of the Undergraduate Catalog for academic and graduation requirements specific to the various majors.

Students pursuing a Bachelor of Arts in economics must have at least a 2.00 GPA* in both the major and UNLV overall. Please refer to the individual departmental section of the Undergraduate Catalog for academic and graduation requirements specific to this degree program.

Students must apply for graduation through the Office of the Registrar at least two semesters prior to graduation. (See the Graduation Policies section of the catalog for more information.)

*The graduation GPAs may change at the dean's discretion.

Scholarships
The Lee Business School is pleased to have the ability, based upon donor funding, to award annual scholarships to undergraduate, graduate and professional students pursuing a degree within the school. For information about eligibility requirements and the application process, go to www.unlv.edu/business/scholarship

Department of Global Entrepreneurship Experience
The Global Entrepreneurship Experience attracts creative, high-achieving students to the Lee Business School to study entrepreneurship on a global scale. Through an engaging curriculum that combines immersive learning and leadership development, students gain experience crafting unique business models to bring new products and services to world markets.

The GEE program stimulates creativity and innovation, emphasizes strategic thinking, and promotes leadership and team-building. This signature series is a complementary curriculum that gives students from any major the tools to become entrepreneurial in their chosen profession.

Students who successfully complete this program are eligible to earn the Global Entrepreneurship Experience minor. For additional information about the Global Entrepreneurship Experience,
Internships

Departments within the Lee Business School offer internship courses, based on availability, that are open to a limited number of qualified upper-division students. These courses consist of supervised, on-site research in various participating local enterprises, culminating in a written report.

Students pursuing an internship are required to do so within their major fields. Most internship courses are offered on a satisfactory/fail grading basis only. Generally, a student may earn a maximum of three credits of internship, and the credits are usually used as an elective in the major.

Minimum college requirements to enroll in an internship course are: a 3.00 GPA or higher, admission to a business major and completion of nine credit hours of courses within the major. Some academic departments have additional requirements. For more information, contact Undergraduate Advising or go to www.unlv.edu/business/advising.

Academic Advising

The Lee Business School offers professional advising through its Undergraduate Advising office. The school’s advisors assist undergraduate students in identifying academic goals; serve as a resource to other campus services; and assist with academic questions, scheduling, graduation procedures and various other paperwork.

To assist in the advising process, students should come to advising meetings prepared, that is having recently read the Undergraduate Catalog, and with a list of questions and a tentative course schedule.

For office hours and advising availability, please call Undergraduate Advising at 702-895-3363 or go to the website at www.unlv.edu/business/advising.

Business Administration Minor - Only for non-business majors

Students majoring in areas outside the Lee Business School are encouraged to complete the minor in Business Administration.

Requirements - Total Credits: 24

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 261 - Principles of Statistics I (or equivalent)
- FIN 301 - Principles of Managerial Finance
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management

Business Analytics Minor

Requirements - Total credits: 18

Required foundation courses
- ECON 261 - Principles of Statistics I
- ECON 262 - Principles of Statistics II

Required Tools Area Courses - 6 credits
Select two of the following courses:
- ECON 306 - Applied Economic Analytics
- MKT 400 - Marketing Research
- MGT 391 - Quantitative Analysis

Select two from the following list of courses. The courses selected must be different than those courses take to fulfill requirements for the tools area. - 6 credits
- MGT 486 - Seminar in Quantitative Management Systems
- MGT 495 - Advanced Decision Systems
- FIN 322 - Insurance and Risk Management
- FIN 405 - Advanced Managerial Finance
- ECON 441 - Introduction to Econometrics
- ECON 455 - Industrial Organization
- MKT 468 - Database Marketing
- IS 383 - Business Intelligence
**Business Global Entrepreneurship Scholars**

**BGES 201 - Entrepreneurial Creativity**
Creativity is the driving force behind successful entrepreneurial organizations. This course will allow students to develop their creative abilities through experimentation and experience with a multitude of techniques. Students will be empowered to develop their own approaches, guidelines, and skills for integrating creativity into their entrepreneurial goals.
Credits: 3
Prerequisites: The maximum number of attempts for this course is three.

**BGES 202 - Innovation and Teams**
Increasingly, entrepreneurship happens in a team setting. This course focuses students on how to create and sustain an innovative organizational culture. Students will develop and demonstrate leadership and teambuilding skills through working on team-based creative projects and will learn how creative people and organizations behave in pursuit of entrepreneurial opportunities.
Credits: 3
Corequisites: BGES 201. The maximum number of attempts for this course is three.

**BGES 301 - Starting Entrepreneurial Organizations**
Students will learn a variety of tools and concepts including feasibility analysis, trends analysis, opportunity recognition, and financial analysis for creating an entrepreneurial venture through a hands on, experience based curriculum.
Credits: 3
Prerequisites: BGES 201, BGES 202. The maximum number of attempts for this course is three.

**BGES 302 - Growing Entrepreneurial Organizations**
The course 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. The class is integrative and experiential in nature.
Credits: 3
Prerequisites: BGES 201, BGES 202, BGES 301. The maximum number of attempts for this course is three.

**BGES 430 - International Entrepreneurship**
This course explores the knowledge necessary to create "global start-ups," acquire sustained competitive advantage, and make global venturing decisions in light of the opportunities and threats faced by entrepreneurs in today's global economy.
Credits: 3
Prerequisites: BGES 301, BGES 302. The maximum number of attempts for this course is three.
Notes: Satisfies International Requirement.

**BGES 431 - International Seminar**
This course provides students "on the ground" exposure to the environment and challenges of international business and requires an integrative analysis of the issues. Students will visit selected organizations, meet business people, and engage in the culture of a designated country.
Credits: 3
Prerequisites: BGES 430. The maximum number of attempts for this course is three.
Notes: Satisfies International Requirement.

**BGES 440 - Sustainability and Entrepreneurship**
Sustainability and entrepreneurship are intertwined, encompassing environmental issues as well as social and financial issues. At its heart, sustainability is about applying creativity and innovation to systems thinking. Throughout the semester, students use practical tools and techniques for identifying issues, developing solutions, troubleshooting problems, measuring progress, and implementing entrepreneurial change.
Credits: 3
Prerequisites: BGES 301, BGES 302. The maximum number of attempts for this course is three.
**BGES 441 - Social Entrepreneurship**
Social Entrepreneurship is about using entrepreneurial skills to craft innovative responses to social problems. It aims at social impact but does not exclude economic wealth creation. Social Entrepreneurship involves recognizing opportunities, combining and mobilizing resources, triggering positive change in various domains, and building sustainability.

Credits: 3
Prerequisites: BGES 440. The maximum number of attempts for this course is three.

**BUS 103 - First-Year Seminar: Business Connections**
This course is designed to help freshmen new to UNLV and interested in business learn, understand, and employ the skills needed for a successful academic experience and for effective career exploration. Instruction will include specific business applications.

Credits: 3
Prerequisites: Freshman only. The maximum number of attempts for this course is three.
Notes: Fulfills First-Year Seminar requirement.

**BLW 101 - Personal Law**
Practical and legal situations about family, consumer, sales, real property, landlord tenant, wills, estates, criminal and tort law in the context of Nevada law.

Credits: 3
Prerequisites: The maximum number of attempts for this course is three.

**BLW 302 - Legal and Ethical Environment of Business**
This course presents an overview of the legal and ethical environment of business. Topics include the courts systems, constitutional law, agency law, contracts, torts, intellectual property and employment regulations. The course also examines ethical decision making models.

Credits: 3
Prerequisites: Lee Business School major or Real Estate minor. The maximum number of attempts for this course is three.
Notes: Satisfies the Multicultural Requirement.

**BLW 331 - Real Estate Law I**
Law of real property transfers, deeds, leases, title insurance, escrows, land contracts, foreclosures, recordings. Law as it affects brokers and salesmen.

Credits: 3
Prerequisites: Lee Business School major or Real Estate minor and a minimum of C grade in BLW 302. The maximum number of attempts for this course is three.

**BLW 375 - International Business Law**
Legal regulations which promote or restrain trade and investment by business firms engaged in international business activities. Regional, national and international sources of law affecting international business transactions explored.

Credits: 3
Prerequisites: Lee Business School major and a minimum C grade in BLW 302. The maximum
number of attempts for this course is three.

Notes: Satisfies International Requirement.

BLW 431 - Real Estate Law II
Legal environment of real estate. Zoning laws, land use regulation, eminent domain, growth controls, impact fees, and other regulation of the use of real estate.
Credits: 3
Prerequisites: Lee Business School major and a minimum C grade in BLW 331. The maximum number of attempts for this course is three.

BLW 435 - Construction Law
Focuses on the legal and ethical environment of basic Construction Law concepts in Nevada. Topics include the legal aspects of engineering and construction contracts and specifications, contract formation, interpretation, rights and duties, and changes, legal liabilities and professional ethics of architects, engineers, and contractors, Nevada's mechanic's lien laws, Nevada's Prompt Pay Statute for Public Works and Nevada's Right to Stop Work Statute.
Credits: 3
Prerequisites: Lee Business School major or Real Estate minor and a minimum of C grade in BLW 302. The maximum number of attempts for this course is three.

BLW 450 - Law of the Internet
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.
Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in BLW 302. The maximum number of attempts for this course is three.
Notes: This course is crosslisted with BLW 650.
Credit at the 600-level requires additional work.

BLW 474 - Business Law II
Law of commercial paper; secured transactions; creditor's rights; bankruptcy; agency; business organizations (partnerships and corporations); securities regulation.
Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in ACC 473. The maximum number of attempts for this course is three.

BLW 478 - Seminar in Current Business Law Topics
Structured analysis of current topics in business law. Topics covered vary from semester to semester, depending upon developments in the discipline.
Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in BLW 302. The maximum number of attempts for this course is three.
Department of Accounting

BSBA - Accounting
Accounting Minor
Auditing Minor

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

Purpose and Focus

The Department of Accounting is committed to providing high quality undergraduate and graduate programs that prepare our students for careers in business and to advance the understanding and practice of accounting through teaching, research, service, and outreach activities.

Accreditation

Northwest Commission on Colleges and Universities
AACSB International — The Association to Advance Collegiate Schools of Business (separate accreditation for the accounting program)

Internships

The Accounting Department offers an internship course that is open to a limited number of qualified upper-division students. An internship consists of supervised, on-site work at various participating local enterprises, culminating in a written report.

Minimum requirements are admission to a business major, junior standing, a 3.00 GPA or higher, and successful completion of at least nine credits of upper-level accounting courses. Students interested in participating in the internship program should visit the Department of Accounting web site for more information.

Students taking an internship course are required to do so within their major field. Internship courses are offered on a satisfactory/fail grading basis only and are considered to be a major elective. A student may receive only three credit hours for an internship.

Accounting Major (BSBA)

Accounting Major- Bachelor of Science in Business Administration (BSBA)

Please see the UNLV Lee Business School web page at http://www.unlv.edu/business for information about department programs, faculty and facilities. Degree worksheets and 4/5 year plans for the major are available at https://www.unlv.edu/degree/bsba-accounting.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at http://www.unlv.edu/business/advising

Accreditation

Institution - Northwest Commission on Colleges and Universities (www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business (www.aacsb.edu)

Learning Outcomes

1. Upon completion of the BSBA in Accounting program, students should be able to think critically
2. Apply analytical/decision-making skills to accounting issues
3. Communicate well both in writing and orally
4. Understand ethical issues facing accountants
5. Apply interpersonal and teamwork skills
6. Use technology appropriate to accounting
7. Research accounting issues

University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits
General Education Requirements - Subtotal: 35-46 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I and
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3
- MATH 124 - College Algebra (or higher)

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Credits: 9
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses
  - Fine Arts, 3 credits required

- Social Science
  - Automatically satisfied by business requirements

- Life and Physical Sciences and Analytical Thinking - Credits: 6-7
  - Science with a lab or non-lab science
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

- Multicultural and International Requirement (Credits: 0-6)

Multicultural, one three-credit course required
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://www.unlv.edu/provost/multicultural-requirements.

Business Administration Core Requirements - Subtotal Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
  - Microsoft Office proficiency
- ACC 473 - Law for Accountants I
- FIN 301 - Principles of Managerial Finance
- IS 330 - Strategic Management of Technology and Innovation
- IS 335 - Business Analytics
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 371 - Leadership & Managerial Skills
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:
- BUS 496* - Strategy Management and Policy
- BUS 498 - Global Business Strategy

Other Lee Business School Requirements - Subtotal Credits: 6-7

- BUS 321/ MGT 321 - Business Communication
  - Select one from:
    - MATH 127 - Precalculus II
    - MATH 128 - Precalculus and Trigonometry
    - MATH 132 - Finite Mathematics
    - MATH 176 - Introductory Calculus for Business and Social Sciences
    - MATH 181 - Calculus I
Major Requirements - BSBA in Accounting - Subtotal: 24 credits

- ACC 400 - The Accounting Environment
- ACC 401 - Financial Reporting I
- ACC 402 - Financial Reporting II
- ACC 405 - Cost Management and Control
- ACC 409 - Accounting Information Systems
- ACC 410 - Federal Taxation
- ACC 470 - Auditing and Assurance Services

one three-credit upper-division (300- or 400-level) accounting elective.

General Electives - Credits: 0-13

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: 120

Notes

1. Students planning to take the CPA examination should take additional courses at the graduate level. Consult with the State Board of Accountancy for CPA examination requirements.
2. Students preparing for careers in industry should consider taking ACC 420 as an upper-division accounting elective.
3. Students interested in focusing their elective course work should consult an advisor early in their academic career to allow for proper planning of electives.
4. All courses in the accounting major must be completed with a grade of C or better. To satisfy an accounting prerequisite, a student must earn a C or better in the prerequisite course(s).

Accounting Minor — Only for non-accounting majors

Requirements - Total Credits: 18

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ACC 400 - The Accounting Environment
- ACC 401 - Financial Reporting I

Select six credits from the following:

- ACC 406 - Auditing in the Gaming Industry
- ACC 420 - Internal Auditing
- ACC 470 - Auditing and Assurance Services

Any upper-division course that is applied toward a major degree will not count as a minor elective.

Auditing Minor — Only for non-accounting majors

Requirements - Total Credits: 18

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ACC 400 - The Accounting Environment
- ACC 401 - Financial Reporting I

Select six credits from the following:

- ACC 406 - Auditing in the Gaming Industry
- ACC 420 - Internal Auditing
- ACC 470 - Auditing and Assurance Services

Any upper-division course that is applied toward a major degree will not count as a minor elective.
Accounting

ACC 201 - Financial Accounting
Overview of the annual report with emphasis on financial statements. Analysis of business transactions and their effects on external financial statements. Theories, practices, and concepts underlying accounting information used in the decision-making process.
Credits: 3
Prerequisites: Sophomore standing or higher. The maximum number of attempts for this course is three.

ACC 202 - Managerial Accounting
Basic concepts and procedures of managerial accounting. Focuses on making management decisions using financial and related information. Provides methods for managers to correctly identify and analyze alternative courses of action in a business context.
Credits: 3
Prerequisites: ACC 201 with a minimum C grade. The maximum number of attempts for this course is three.

ACC 400 - The Accounting Environment
Explores the accounting profession, accounting information systems, internal controls, accounting decision-making, the accounting process and financial accounting, and accounting research.
Credits: 3
Prerequisites: Admissions to a business major or minor in Accounting or Auditing, successful completion of a Competency Exam, completion of ACC 201 with a grade of B- or better, completion of ACC 202 with a grade of B- or better. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 600. Credit at the 600-level requires additional work.

ACC 401 - Financial Reporting I
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.
Credits: 3
Prerequisites: Lee Business School major and Accounting or Accounting minor or Auditing minor; and a minimum C grade in ACC 400, ACC 405 and FIN 301. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 601. Credit at the 600-level requires additional work.

ACC 402 - Financial Reporting II
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.
Credits: 3
Prerequisites: Lee Business School major or Accounting minor; and a minimum C grade in ACC 400, ACC 401, ACC 409. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 602. Credit at the 600-level requires additional work.

ACC 405 - Cost Management and Control
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.
Credits: 3
Prerequisites: Lee Business School major or Accounting minor, successful completion of a Competency Exam, minimum grade of B- in ACC 201 and ACC 202. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 605. Credit at the 600-level requires additional work.

ACC 406 - Auditing in the Gaming Industry
Audits of gaming entities; terminology; regulatory requirements and the associated compliance audit requirements; control systems and the inherent risks unique to the gaming industry.
Credits: 3
Prerequisites: Admission to a Lee Business School major or Accounting minor or Auditing minor; a minimum C grade in ACC 470 as either a prerequisite or a corequisite. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 606. Credit at the 600-level requires additional work.

ACC 407 - Governmental and Not-for-Profit Accounting
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.
Credits: 3
Prerequisites: Admission to a Lee Business School major or Accounting minor. Minimum of C grade in ACC 401. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 607. Credit at the 600-level requires additional work.

ACC 409 - Accounting Information Systems
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.
Credits: 3
Prerequisites: Admission to a Lee Business School major or Accounting minor; and a minimum C grade in ACC 400, ACC 405. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 609. Credit at the 600-level requires additional work.

ACC 410 - Federal Taxation
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.
Credits: 3
Prerequisites: Admission to a Lee Business School major or Accounting minor, and a minimum C grade in each of these classes: ACC 400, ACC 405. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with ACC 610. Credit at the 600-level requires additional work.

ACC 412* - Fraud Examination
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.
Credits: 3
Prerequisites: Admission to a Lee Business School major or Accounting minor. A minimum C grade in ACC 409. The maximum number of attempts for
this course is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with ACC 612*.
Credit at the 600-level requires additional work.

**ACC 420 - Internal Auditing**
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.

Credits: 3
Prerequisites: Admission to a Lee Business School major or Accounting or Auditing minor. A minimum C grade in ACC 470 as either a prerequisite or a corequisite. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with ACC 620.
Credit at the 600-level requires additional work.

**ACC 450 - International Accounting**
Comparative accounting systems and their economic and social development patterns, foreign currency translation, analyzing multinational financial transactions and statements, accounting for international inflation, auditing in an international environment, international reporting and disclosures and international taxation and transfer pricing.

Credits: 3
Prerequisites: Admissions to a Lee Business School major or Accounting minor. A minimum C grade in ACC 202. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with ACC 650.
Credit at the 600-level requires additional work.

Satisfies the International Requirement.

**ACC 470 - Auditing and Assurance Services**
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.

Credits: 3
Prerequisites: Lee Business School major or Accounting minor or Auditing minor and a minimum C grade in each of these classes: ACC 401, ACC 409. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with ACC 670.
Credit at the 600-level requires additional work.

**ACC 473 - Law for Accountants I**
Introduction to law and the court system; introduction to torts and criminal law; contracts and sales; real and personal property.

Credits: 3
Prerequisites: Admission to a Lee Business School major. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.

Notes: May not earn duplicate credit in BLW 273 and ACC 473 or in BLW 474 and ACC 473. This course is crosslisted with ACC 673. Credit at the 600-level requires additional work.

**ACC 481 - Accounting Internship**
Supervised practical experience in accounting leading to experience at a professional level.

Credits: 1-3
Prerequisites: Admission to the major, a 2.5 GPA or higher and successful completion of at least six credits of upper-division accounting courses.

Notes: S/F grading only.

**ACC 490 - Independent Study**
Independent study in selected topics.

Credits: 1-3
Prerequisites: A 3.00 GPA, admission to the major, senior standing, successful completion of nine credit hours of upper-division accounting courses, and consent of instructor. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits.

May be repeated to a maximum of six credits.
Department of Economics

BA-Economics
BSBA-Economics
BSBA-Real Estate and Urban Economics
Economics Minor
Real Estate Minor

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

Purpose and Focus

Economics explores decision making in a world of scarce resources and unlimited wants, focusing on the behavior and interaction of consumers, workers, businesses, and government. People with training in economics experience high demand in the job market for several reasons. First, employers value the skills that studying economics challenges students to develop. These skills include critical thinking; problem solving; and the ability to find, manage, and analyze data. Second, world events often involve economic concepts, making economics majors desirable to financial institutions, government agencies, corporations, labor unions, consulting firms, and other organizations. Training in economics also provides excellent preparation for law school, master’s and MBA programs, and doctoral studies. As a result, economics as a major, minor, or second major proves an attractive option to many students.

Accreditation

Northwest Commission on Colleges and Universities
AACSB International—The Association to Advance Collegiate Schools of Business

Economics Major (BA)

Economics Major- Bachelor of Arts (BA)

Please see the UNLV Lee Business School web page at www.unlv.edu/business for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-economics.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at www.unlv.edu/business/advising.

Accreditation

Institution - Northwest Commission on Colleges and Universities (www nwccu.org)
Program - The Association to Advance Collegiate Schools of Business (www.aacsb.edu)

Learning Outcomes

1. Use supply and demand analysis;
2. Apply the concept of opportunity cost;
3. Use marginal analysis;
4. Use the appropriate models to explain the behavior of economic agents in different market structures;
5. Explain the causes of short-run fluctuations in macroeconomic variables;
6. Explain the determinants of long run economic growth;
7. Predict the effects of various micro- and macroeconomic policies using the appropriate models;
8. Gather, analyze, and interpret economic data;
9. Describe the role and function of financial markets, institutions, and policies;
10. Analyze global economic issues.

University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits
General Education Requirements - Subtotal: 35-49
Credits

If students’ ACT or SAT test scores place them directly into ENG 102, then the number of general education credits will be reduced by 3.

Where specific courses are not identified, please see the related section of the Undergraduate Catalog for information about which courses may satisfy university core requirements.

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3
- MATH 124 - College Algebra or higher

Distribution Requirements - Credits: 18-19

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 credits**
  - Humanities, 6 credits required from two different areas.
  - Fine Arts, 3 credits required
- **Social Science**
  - Automatically satisfied by economics requirements
- **Life and Physical Sciences and Analytical Thinking: 9-10 credits**
  - Life and Physical Sciences - 6-7 credits
    - One science course with a lab
    - One non-lab science course
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement

Multicultural, one three-credit course required
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirements.

Foreign Language/Foreign Culture - Credits: 6

Two courses in the same foreign language at the university level or the equivalent or two courses (at least six credits) in a foreign culture. Students should consult with an academic advisor regarding acceptable foreign culture courses.

Pre-major and Major Requirements - BA in Economics - Subtotal: 33 Credits

Nine of the 33 required economics major credits must be 400-level ECON courses.

- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
- ECON 262 - Principles of Statistics II or
- ECON 441 - Introduction to Econometrics
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics
- ECON 495 - Seminar in Economic Research

General Electives - Credits: 38-52

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: 120
Advanced Track

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

Minimum of 3.0 GPA
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
Department chair or graduate coordinator’s recommendation
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.

Notes:

Students planning to pursue graduate studies in economics are encouraged to take Advanced Track.

Economics Major (BSBA)

Economics Major- Bachelor of Science in Business Administration (BSBA)
Please see the UNLV Lee Business School web page at www.unlv.edu/business for information about department programs, faculty and facilities. Degree worksheets and 4/5 year plans for the major are available at www.unlv.edu/degree/bsba-economics

Please see advising information at the UNLV Lee Business School Undergraduate Advising at www.unlv.edu/business/advising

Accreditation
Institution - Northwest Commission on Colleges and Universities (www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business (www.aacsb.edu)

Learning Outcomes
1. Use supply and demand analysis;
2. Apply the concept of opportunity cost;
3. Use marginal analysis;
4. Use the appropriate models to explain the behavior of economic agents in different market structures;
5. Explain the causes of short-run fluctuations in macroeconomic variables;
6. Explain the determinants of long run economic growth;
7. Predict the effects of various micro- and macroeconomic policies using the appropriate models;
8. Gather, analyze, and interpret economic data;
9. Describe the role and function of financial markets, institutions, and policies;
10. Analyze global economic issues.

University Graduation Requirements
- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 35-46 Credits

Where specific course is not identified, please see the related section of the Undergraduate Catalog for information about which courses may satisfy university core requirements.

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3

MATH 124 - College Algebra or higher

Distribution Requirements - Credits:18-19
Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 credits**
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required

- **Social Science**
  - Automatically satisfied by business requirements

- **Life and Physical Sciences and Analytical Thinking: 9-10 credits**
  - Life and Physical Sciences - 6-7 credits
    - One science course with a lab
    - One non-lab science course
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International (Credits: 0-6)

Multicultural, one three-credit course required
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirement

Lee Business School Requirements - BSBA in Economics - Subtotal: 75-80 Credits

Business Administration Core Requirements - Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
  - Microsoft Office proficiency
- BLW 302 - Legal and Ethical Environment of Business
- FIN 301 - Principles of Managerial Finance
- IS 330 - Strategic Management of Technology and Innovation
- IS 335 - Business Analytics
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 371 - Leadership & Managerial Skills
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:
- BUS 496* - Strategy Management and Policy
- BUS 498 - Global Business Strategy

Other Lee Business School Requirements - Subtotal Credits: 6-7

- BUS 321/ MGT 321 - Business Communication and
  - Select one from:
    - MATH 127 - Precalculus II
    - MATH 128 - Precalculus and Trigonometry
    - MATH 132 - Finite Mathematics
    - MATH 176 - Introductory Calculus for Business and Social Sciences
    - MATH 181 - Calculus I
    - MATH 182 - Calculus II

Economics Major Requirements - Credits: 24

Nine of the 24 required economics major credits must be 400-level ECON courses.

- ECON 262 - Principles of Statistics II
  - or
- ECON 441 - Introduction to Econometrics
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics
- ECON 495 - Seminar in Economic Research
  - and four three-credit upper-division (300-400 level) economics electives.

General Electives - Credits: 0-13
The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: 120

Economics Major Advanced Track Program

The Advanced Economics Program allows undergraduates to take one or two 700-level graduate courses (6 credits) in their undergraduate program and then count them in the MA program in economics. Students planning to pursue graduate studies in economics are encouraged to take the Economics Advanced Track Program.

**Economics Major Advanced Track Requirements: Credits: 24**

Nine of the 24 required economics major credits must be 400 or 700 level ECON courses.

- ECON 262 - Principles of Statistics II
- ECON 441 - Introduction to Econometrics
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics
- ECON 495 - Seminar in Economic Research
- And 2 or 3 three-credit upper-division (300- or 400-level) economics electives. (At least one of these electives must be a 400-level ECON course)
- And 1 or 2 three-credit 700 level economics courses

General Electives - Credits:0-10

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: 120

UNLV undergraduate Economics majors must meet all of the following criteria to be eligible for the Advanced Program Track:

1. Satisfactory completion of Graduate College admission requirements
2. Senior standing
3. Minimum of 3.0 GPA
4. 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.
5. Department chair or graduate coordinator’s recommendation
6. 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

**Economics**

**ECON 102 - Principles of Microeconomics**

Introduction to economic organization of society with emphasis on how markets and prices guide and direct economic activity. Economic analysis applied to a wide range of contemporary issues.

Credits: 3

Prerequisites: Degree Seeking and a minimum grade of C in MATH 124 or MATH 126 or MATH 127 or MATH 132 or MATH 170 or MATH 176 or MATH 181 or MATH 182 or ACT math score of 24 or SAT math score of 560 (taken before March 2016) or SAT math score of 580 (taken after March 2016).

Notes: Satisfies the Social Science Requirement.

**ECON 103 - Principles of Macroeconomics**

Integration of markets to determine gross domestic product and national income. Relation between the United States economy and the world economy. Determination of consumption, capital formation,
government services, and international trade. Cause and cure for unemployment, inflation, and economic stagnation.

Credits: 3
Prerequisites: MATH 124 or higher with a minimum grade of C.
Notes: Satisfies the Social Science Requirement.

ECON 104 - Current Economic Issues
Analysis of current economic issues. Economic theories and concepts basic to the analysis of issues introduced, explained, and applied.
Credits: 3
Notes: Satisfies the Social Science Requirement.

ECON 150 - Economics for Teachers
Specialized instruction in basic economic concepts with discussions of strategies and techniques dealing with the introduction of these concepts into the curricula of elementary and secondary schools.
Credits: 3
Prerequisites: Sophomore standing or higher.
Notes: Satisfies the Social Science Requirement.

ECON 180 - The Economics of Discrimination
Investigates the economic causes, effects, and remedies of discrimination based on age, ethnicity, gender, religion, national origin, or sexual orientation.
Credits: 3
Prerequisites: Must be degree seeking student.
Notes: Satisfies the Multicultural and Social Science Requirement.

ECON 190 - Global Economics
Introduction to the economic organization of global markets. Analysis of international trade and finance, transnational corporations, global economic institutions, economic growth and economic systems.
Credits: 3
Notes: Satisfies the Social Science and International requirements.

ECON 200 - Capitalism, Constitutions and American Ideals
Economic analysis of the role of federal and state governments in the United States, particularly as it relates to their constitutional powers and limitations. Students will be expected to read original works in the field, and produce analytical critiques of actual and proposed government policies.
Credits: 3
Prerequisites: Sophomore standing.
Notes: Satisfies United States and Nevada Constitutions Requirement.

ECON 222 - Applied Economics
Application of economics to policy choices on global, national, state, and local scales. Students will read original source materials, and produce analyses of active and proposed government policies.
Credits: 3
Prerequisites: ECON 102.
Notes: Satisfies Social Science Requirement.

ECON 261 - Principles of Statistics I
Descriptive and inferential statistics for prediction and decision making, with managerial and economic applications. Includes probability theory and distributions, hypothesis testing, and regression analysis.
Credits: 3
Prerequisites: MATH 124 or higher with a minimum grade of C.

ECON 262 - Principles of Statistics II
Advanced statistical techniques, including multiple regression, the cross-sectional time series model, analysis of variance, and non-parametric statistics.
Credits: 3
Prerequisites: ECON 261 or equivalent with a minimum grade of C.

ECON 302 - Intermediate Microeconomics
Analysis of the price mechanism, resources allocation, output composition, and income
distribution in a market economy.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 303 - Intermediate Macroeconomics
Analysis of income, output, employment, and price level determination in a market economy. Role of fiscal and monetary policy in promoting stability and growth.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum of C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 304 - Money and Banking
Nature of money. Determination of the quantity of money by the commercial banks, the Federal Reserve, and the United States Treasury. Intensive analysis of commercial banking, money, and capital markets, interest rate determination, the foreign sector, and banking.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum of C grade in ECON 103. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 305 - Comparative Economics
Analysis of the economic institutions of capitalism and other economic systems.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum of C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies the Multicultural and Social Science Requirement.

ECON 306 - Applied Economic Analytics
Topics related to business, management and economic decision making are covered. Excel and other programs are used to work through applications of supply and demand, pricing strategies, market simulations, applied welfare analysis, and other topics.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum of C grade in both ECON 102 and ECON 261. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

ECON 307 - Environmental Economics
Economics of environmental quality and resource development. Consideration of public policies to account for environmental pollution to air, water, and land resources.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 309 - Resource Economics
Economics analysis of renewable and non-renewable resources. Examination of resource allocation across generations. Other topics include species extinction and conservation of resources. Emphasis on public policy alternatives.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 312 - Global Economics and Development
Examination of diverse international economic conditions and paths of development. Analysis of policies fostering economic development, integration, and sustainable financial relations in the global economy.
Credits: 3
Prerequisites: Lee Business School major or Economics minor or International Business minor; and a minimum C grade in ECON 103. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 313 - Economics of Public Policy
Course addresses the role of government, economic rationales for policy interventions, and policy evaluation. Topics include: externalities; public goods; taxes; asymmetric information and others. Students will be asked to conduct analyses of a variety of public-policy issues, such as the environment, health care, energy, regulation of industry, and education.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 320 - Health Economics
Economic analysis of the health care sector, including physician, hospital, and insurance markets. Emphasis on roles of government, information, and externalities in health care.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 321 - Economics of Sport and Entertainment
Economic analysis of college and professional sports, gaming, and the performing arts, including film, music, television, and the Internet. Topics include economic effects on host communities, labor issues, government regulation, facility economics, copyright law, and industry structure and competitiveness.
Credits: 3
Prerequisites: Lee Business School major or Economics minor or International Business minor; and a minimum C grade in ECON 102 or HON 202. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 334 - Economic History of the United States
Origin and development of economic institutions including industry, agriculture, commerce, transportation, labor, and finance. Analysis of the economic progress of the United States.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 354 - Government and Business
General survey of government activities affecting business, emphasizing on the legal concepts of property and contract and such policies as antitrust regulation. Primary reference to the public utility industries.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

ECON 358 - International Economics
Introduction to the principles of international economics. Covers international trade and international finance. Emphasizes the forces of globalization and how they affect U.S. firms and workers.
Credits: 3
Prerequisites: Lee Business School major or Economics minor or International Business minor; and a minimum C grade in ECON 102; or HON 202; and in ECON 103; or HON 203. The maximum number of attempts for this course is three.
Notes: Satisfies International and Social Science Requirements.
ECON 359 - Economic Development
Analysis of problems, principles, and policies of economic development. Case studies of selected countries.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102 or HON 202. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

ECON 365 - Labor Economics
Labor union history and organization; labor market analysis of wages, hours, employment and working conditions; collective bargaining and labor legislation.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum grade C in ECON 102. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

ECON 402 - Topics of Microeconomics
Extensions of microeconomic analysis. Application of traditional microeconomic concepts to study economic phenomena. Emphasis on decision making in the public policy arena.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 102 and MATH 124. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

ECON 403 - Topics in Macroeconomics
Extensions of macroeconomic analysis. Application of economic analysis to study macroeconomic phenomena. Implications for inflation, unemployment, growth, and the effectiveness of fiscal and monetary policy.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 303 and MATH 124. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

ECON 440 - Introduction to Mathematical Economics
Application of mathematics to economic analysis. This course is crosslisted with ECO 640. Credit at the graduate level requires additional work.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in MATH 124 and, ECON 302 or ECON 303. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

ECON 441 - Introduction to Econometrics
Measurement of economic relationships, with stress upon the estimation of parameters of stochastic economic models.
Credits: 3
Corequisites: ECON 302 or ECON 303.
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 261 or HON 125. The maximum number of attempts for this course is three.

ECON 442 - History of Economic Thought
Analysis of the ideas of the principal contributors to the development of economics.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in six credits of economics. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

ECON 451 - Public Finance
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.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON
The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

**ECON 455 - Industrial Organization**
Causes and implications of economic concentration and monopoly power. Comparison of alternative approaches to monopoly power in terms of social and economic goals.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 302. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

**ECON 457 - Law and Economics**
Introduction to the use of economic reasoning to analyze legal issues. Topics include economic reasoning, trespass, breach of contract, torts, crime and punishment, the economics of trial and settlement, and careers in law and economics.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 261 or HON 125 and ECON 302. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

**ECON 462 - International Trade**
Analysis of the theory of international trade, balance of payments, commercial policies, international institutions, and international economic integration.
Credits: 3
Prerequisites: Lee Business School major or Economics minor or International Business minor and a minimum C grade in ECON 302. The maximum number of attempts for this course is three.
Notes: Satisfies International and Social Science Requirement

**ECON 463 - International Monetary Relations**
Examination of the theory and policies relating to past and present international monetary relations. Comprehensive view of contemporary monetary institutions and problems.
Credits: 3
Prerequisites: Lee Business School major or Economics minor or International Business minor; and a minimum C grade in ECON 303. The maximum number of attempts for this course is three.
Notes: Satisfies International and Social Science Requirement

**ECON 470 - Urban and Regional Economics**
Analysis of the structure and functioning of economic activities in urban and non-urban areas, including location and growth of cities and regions, inter- and intrametropolitan distribution of firms and residences, operation of land markets, planning local public services, and urban fiscal problems.
Credits: 3
Prerequisites: Lee Business School major or Economics minor or Real Estate minor; and a minimum C grade in ECON 302. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement

**ECON 480 - Managerial Economics**
Integrates the microeconomic theory of the firm and the tools of mathematical and statistical analysis to provide an analytical framework for the formulation of business policy.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 302 and ECON 262 or ECON 441. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.
**ECON 489 - Economics Internship**
Internship with business firms, nonprofit organizations, or government agencies. Joint supervision of activity supervisor and instructor. S/F grading.
Credits: 3
Prerequisites: Admissions to the major, 3.00 GPA, completion of nine credit hours of courses within the major and permission of instructor.
Notes: Project report and internship conferences required. Satisfies Social Science Requirement.

May be repeated to a maximum of six credits. Only three credits count as an upper-division economics major elective.

**ECON 490 - Independent Study**
Individual study in selected topics.
Credits: 1-3
Prerequisites: Admissions to the major, 3.00 GPA, completion of nine credit hours within the major, and permission of instructor.
Notes: Satisfies Social Science Requirement.

May be repeated to a maximum of six credits. The maximum number of attempts for this course is three.

**ECON 493 - Special Topics**
Study of selected topics of current interest in economics and of significance to the discipline.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum C grade in ECON 262 or ECON 441, and in ECON 302, and in ECON 303, and senior standing. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

May be repeated to a maximum of six credits.

**ECON 495 - Seminar in Economic Research**
Capstone course for economics majors. Reviews the major theories and tools used by professional economists. Students attend Friday economics research seminars with faculty and graduate students. Culminates in a student research project presented to the department in oral and written form.
Credits: 3
Prerequisites: Lee Business School major or Economics minor; and a minimum of C grade in ECON 262 or ECON 441, and in ECON 302, and in ECON 303, and senior standing. The maximum number of attempts for this course is three.
Notes: Satisfies Social Science Requirement.

**Economics Minor**
Requirements - Total Credits: 21
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
- and four additional three credit upper-division (300- or 400-level) ECON classes.

Recommended electives include:
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics

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

Senior standing
Minimum of 3.0 GPA
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
Department chair or graduate coordinator’s recommendation
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
Real Estate and Urban Economics Major (BSBA)

Real Estate and Urban Economics Major - Bachelor of Science in Business Administration (BSBA)
Please see the UNLV Lee Business School web page at www.business.unlv.edu for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at www.unlv.edu/degree/bsba-real-estate

Please see advising information at the UNLV Lee Business School Undergraduate Advising at www.business.unlv.edu/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - The Association to Advance Collegiate Schools of Business www.aacsb.edu/

Learning Outcomes
Upon graduation, students earning a degree in Real Estate and Urban Economics should be able to:

1. use supply and demand analysis;
2. use the appropriate models to explain the behavior of economic agents in different market structures;
3. describe the role and function of financial markets, institutions, and policies;
4. predict the effects of various micro- and macroeconomic policies using the appropriate models;
5. explain the determinants of long run economic growth;
6. gather, analyze, and interpret economic data;
7. apply the time value of money to a variety of situations;
8. explain the relationship between risk and return;
9. analyze, compare, and contrast various real estate appraisal valuation methods; investment opportunities, and mortgage instruments;
10. identify basic regional demographics and migration.

University Graduation Requirements
Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 35-46 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3
- MATH 124 - College Algebra or higher

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required

- Social Science
Automatically satisfied by business requirements

- **Life and Physical Sciences and Analytical Thinking: 6-7 credits**
  - Life and Physical Sciences, 6-7 credits required
  - One science course with a lab
  - One non-lab science course
  - Analytical Thinking, 3 credits required
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International - Credits: 0-6

- Multicultural, one three-credit course required
- International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirements.

Lee Business School Requirements - BSBA in Real Estate and Urban Economics - Subtotal: 65-80 Credits

Other Lee Business School Requirements - Credits: 6-7

- BUS 321/ MGT 321 - Business Communication
  and

Select one from:
- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences
- MATH 181 - Calculus I
- MATH 182 - Calculus II

Business Administration Core Requirements - Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
  - Microsoft Office proficiency
- BLW 302 - Legal and Ethical Environment of Business
- FIN 301 - Principles of Managerial Finance
- IS 330 - Strategic Management of Technology and Innovation
- IS 335 - Business Analytics
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 371 - Leadership & Managerial Skills
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:
- BUS 496* - Strategy Management and Policy
- BUS 498 - Global Business Strategy

Real Estate and Urban Economics Major Requirements - Credits: 24

**Major Courses:** Required: (12 credits)

- BLW 331 - Real Estate Law I
- RE 332 - Real Estate Finance
- RE 334 - Real Estate Investment
  - RE 451 - Real Estate Development I or
  - RE 481 - Real Estate Internship

Choose 12 credits from the following electives:

- AAE 457 - Architecture in Las Americas
- AAE 481 - Architecture, Place and Identity
- AAL 430 - Land Use Management
- AAL 446 - Land Use Planning and Controls
- ACC 401 - Financial Reporting I
- BLW 431 - Real Estate Law II
- BLW 435 - Construction Law
- ECON 262 - Principles of Statistics II
Electives - Credits: 0-13

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: 120

Real Estate

RE 130 - Introduction to Real Estate
Economic, legal, financial, marketing, managerial, and operational aspects of real estate.
Credits 3
Prerequisite(s): Sophomore standing. The maximum number of attempts for this course is three.

RE 301 - Real Estate Fundamentals
Serve as a gateway course for the study of real estate. Students who take this course will be prepared for advanced study in real estate finance, valuation, investments, and law. Topics include legal aspects of real estate transactions, valuation and appraisal, mortgages, real estate brokerage, real estate finance, investments and ownership.
Credits 3
Prerequisite(s): Lee Business School major or Real Estate minor, and a minimum C grade in each of these classes: ECON 102, ECON 103, and ECON 261. The maximum number of attempts for this course is three.

RE 332 - Real Estate Finance
Sources of funds, procedures for making and servicing loans, economic aspects of real estate financing, laws relating to ownership, zoning and transfer of real property.
Credits 3
Prerequisite(s): Lee Business School major or Real Estate minor and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

RE 333 - Real Estate Valuation
The appraisal process and theory and techniques of residential and income property appraisal. Sales comparison, cost and income approaches to valuation examined, evaluated, and applied to valuation situations. Function and role of the real estate appraiser. Credits 3
Prerequisite(s): Lee Business School major or Real Estate minor and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

RE 334 - Real Estate Investment
Process and techniques of analyzing real property as an investment medium. Effects of market conditions and government policies upon real estate investment.
Credits 3
Prerequisite(s): Lee Business School major or Real Estate minor and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

RE 451 - Real Estate Development I
Evaluates "ground-up" development. Starting from an analysis of raw land different product types such as retail, office, single-family residential, multi-family, and industrial as well as specialty types (golf courses, assisted living) are discussed in terms of
inception of an idea, site selection and analysis, market research, and feasibility, public regulations, contractual and commitment issues, construction process, asset management, and risk management. Credits 3
Prerequisite(s): Lee Business School major or Real Estate minor and BLW 331, and six credit hours of RE 300-level courses. A minimum of C grade is required in all Prerequisite(s): The maximum number of attempts for this course is three.

RE 452 - Real Estate Development II
Case study course oriented to the types of commercial real estate projects discussed in RE 451. Students will review real estate development utilizing the case study method. Lectures may be supplemented with guest speakers from the community focusing on different types of real estate development.
Credits 3
Prerequisite(s): Lee Business School major and a minimum of C grade in RE 451. The maximum number of attempts for this course is three.

RE 481 - Real Estate Internship
Supervised on-site practical and professional learning experience in various participating local real estate enterprises, culminating in a written report.
Credits 3
Prerequisite(s): Admissions to the major, 3.00 overall GPA, and minimum 3.00 major GPA with at least nine credit hours of RE 300-level courses completed. A minimum grade of C is required for all Prerequisite(s): The maximum number of attempts for this course is three.
Note(s): S/F grading only.

RE 490 - Real Estate Independent Study
Study and research in the field of real estate.
Credits (1-3)
Prerequisite(s): Admission to the major, 3.00 overall GPA, and minimum 3.00 major GPA with at least nine credit hours of RE 300-level courses completed. A minimum grade of C is required for all Prerequisite(s): The maximum number of attempts for this course is three. May be repeated to a maximum of six credits.

RE 495 - Current Topics in Real Estate
Analysis of current topics in real estate issues such as valuation, finance, and investment.
Credits 3
Prerequisite(s): Lee Business School major; BLW 331, and six credit hours of RE 300-level courses. A grade of C or better is required for all Prerequisite(s): The maximum number of attempts for this course is three.

Real Estate Minor
Requirements - Total Credits: 21

Required courses - Total Credits: 15
- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- BLW 331 - Real Estate Law I
- FIN 301 - Principles of Managerial Finance
- RE 332 - Real Estate Finance

and two additional three-credit courses (6 credits) selected from:
- BLW 435 - Construction Law
- ECON 470 - Urban and Regional Economics
- RE 333 - Real Estate Valuation
- RE 334 - Real Estate Investment
- RE 451 - Real Estate Development I
Department of Finance
BSBA-Finance
Finance minor
Risk Management and Insurance minor
For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

Purpose and Focus
The Department of Finance offers courses to prepare students for a variety of careers in the rapidly changing fields of finance, insurance, and investments. Students are exposed to both the theory and the practical applications of finance as it relates to their area. They are taught to focus on the key elements in complicated financial issues and to provide a solution based on theory, knowledge, analysis, and logic. During the second semester of the sophomore year, students should meet with a Lee Business School advisor to plan a specific program of study since it is essential that proper course sequencing be observed.

Accreditation
Northwest Commission on Colleges and Universities
AACSB International—The Association to Advance Collegiate Schools of Business

Internships
The Finance Department offers an internship course that is open to a limited number of qualified upper-division students. These courses consist of supervised, on-site work in various participating local enterprises, culminating in a written report. Minimum requirements are a 3.00 UNLV GPA, admission to the finance major, and a minimum grade of C in FIN 303 and FIN 307. Students interested in participating in the internship program should contact the Finance Department office and then apply for approval through Undergraduate Advising.

Students pursuing an internship course are required to take the internship within their major field. Internship courses are offered on a satisfactory/fail grading basis only and are considered to be a major elective. A student can generally use up to three hours of internship.

Finance Major (BSBA)

Finance Major - Bachelor of Science in Business Administration (BSBA)
Please see the UNLV Lee Business School, Finance Department web page at www.unlv.edu/finance for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bsba-finance

Please see advising information at the UNLV Lee Business School Undergraduate Advising's web page at www.unlv.edu/business/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities (www.nwccu.org)
School - Association to Advance Collegiate Schools of Business (www.aacsb.edu)

Learning Outcomes
Upon completion of the B.S.B.A. program in Finance, students should be able to:

1. Be able to recognize and apply time value of money concepts.
2. Be able to recognize and explain the relationship between risk and return.
3. Be able to recognize and explain how cash flows create value.
4. Be able to recognize and explain how information is reflected in market prices.

University Graduation Requirements
- Please see Graduation Policies for complete information
Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal 35-46 Credits

Where specific courses are not identified, please see the related sections of the Undergraduate Catalog for information about which course may satisfy University core requirements.

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement - Credits 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Total Credits: 9
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required

- Social Science:
  - Automatically satisfied by business requirements

- Life and Physical Sciences and Analytical Thinking: 9-10
  - Life and Physical Sciences - 6-7 credits
  - One science course with a lab
  - One non-lab science course
    - Analytical Thinking - 3 credits
      - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement (Credits: 0-6)

Multicultural, one three-credit course required
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirement.

Lee Business School Requirements - BSBA in Finance - Subtotal: 75-80 Credits

Business Administration Core Requirements - Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
  - Microsoft Office proficiency
- BLW 302 - Legal and Ethical Environment of Business
- FIN 301 - Principles of Managerial Finance
- IS 330 - Strategic Management of Technology and Innovation
- IS 335 - Business Analytics
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 371 - Leadership & Managerial Skills
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:
• BUS 496* - Strategy Management and Policy
• BUS 498 - Global Business Strategy

Other Lee Business School Requirements - Credits: 6-7

• BUS 321/ MGT 321 - Business Communication
  and

Select one from:
• MATH 127 - Precalculus II
• MATH 128 - Precalculus and Trigonometry
• MATH 132 - Finite Mathematics
• MATH 176 - Introductory Calculus for Business and Social Sciences
• MATH 181 - Calculus I
• MATH 182 - Calculus II

Finance Major Requirements - Credits: 24

Part 1 (9 credits):
• FIN 303 - Intermediate Managerial Finance
• FIN 307 - Investments
  and either
• FIN 405 - Advanced Managerial Finance
  or
• FIN 419 - Portfolio Management

Part 2 (15 credits):
• Two courses have to be FIN 400 level courses.
• Two more courses have to be FIN 300/400 level courses (except FIN 345). Students are encouraged to take FIN 308 and FIN 312.
• One more course from FIN 300/400 level courses (except FIN 345) or from the following list of non-FIN courses:
  o ECON 262 Principles of Statistics II
  o ECON 302 Intermediate Microeconomics
  o ECON 303 Intermediate Macroeconomics
  o RE 332 Real Estate Finance
  o RE 333 Real Estate Valuation
  o RE 334 Real Estate Investment

General Electives - Credits: 0-13

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

Total Credits: 120

Notes
1. Students must have earned 39 credits of 300- and 400-level courses upon graduation.
2. Suggested programs of study:
   Students who intend to focus on certain functional areas in finance can choose one of the following suggested programs.
   b. Investments: finance core courses, FIN 410, FIN 419, one elective finance course, RE 334.
   c. Financial services: finance core courses, FIN 322, FIN 445, one 400-level FIN course, RE 332.
3. The prerequisites for some electives, such as ACC 401, are not degree applicable.

Finance Minor

Requirements - Total Credits: 21

• ACC 201 - Financial Accounting
• ACC 202 - Managerial Accounting
• FIN 301 - Principles of Managerial Finance
• FIN 303 - Intermediate Managerial Finance
• FIN 307 - Investments
  and either
• FIN 405 - Advanced Managerial Finance
  or
• FIN 419 - Portfolio Management
  and one elective from 300- or 400-level FIN courses.
Risk Management and Insurance
Minor

Requirements - Total Credits: 21

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- FIN 301 - Principles of Managerial Finance

and four additional three-credit courses selected from the list below. Two of the electives must be insurance courses offered by the Finance Department. (If students majoring in areas outside of the Lee Business School do not have a statistical method background equivalent to ECON 261, then ECON 261 is required as one of the four additional elective courses.)

- FIN 321 - Corporate Risk Management
- FIN 322 - Insurance and Risk Management
- FIN 420 - Property and Liability Insurance
- FIN 421 - Life and Health Insurance
- FIN 422 - Risk Management Seminar
- MATH 320 - Mathematics of Interest
- MATH 471 - Actuarial Mathematics I
- MATH 472 - Actuarial Mathematics II
- MATH 473 - Risk Theory

Finance

FIN 101 - Personal Finance
Introduction to management of personal expenses and savings. Protection of family income, assets, and health. Taxes and estate planning. Does not apply toward a major in the Lee Business School.
Credits: 3
Prerequisites: Degree seeking. The maximum number of attempts for this course is three.

FIN 115 - Introduction to Investments
Major types of investment securities and the markets in which they are traded. Mechanics of making an investment, including basic analytical and valuation techniques and a survey of investment literature and terms. Does not apply toward a major in the Lee Business School.

FIN 151 - Introduction to Risk and Insurance
Consumer-oriented approach to analyzing the impact of significant risks in business and personal life; a presentation of the available methods for treating those risks.
Credits: 3
Prerequisites: Sophomore standing. The maximum number of attempts for this course is three.

FIN 301 - Principles of Managerial Finance
Finance function within business organizations; tools and techniques of financial management. Topics include financial mathematics; valuation of securities; financial analysis; capital budgeting; concepts of capital structure and dividend policy; and working capital management.
Credits: 3
Prerequisites: Lee Business School major or any of the following minors; Accounting, Auditing, Business Administration, Finance, International Business, Real Estate, or Risk Management and Insurance minor; and a minimum C grade in ACC 201 and ACC 202 and in ECON 261 or HON 125. The maximum number of attempts for this course is three.

FIN 303 - Intermediate Managerial Finance
Theoretical approach to financial management. Development of analytical tools and their application to practical, modern business financial problems.
Credits: 3
Prerequisites: Lee Business School major or Finance minor and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

FIN 307 - Investments
Introduction to the basic concepts of investments. Focus on analysis of the investment environment and decision process; overview of function and
efficiency of securities markets; relation between risk and return; characteristics, valuation, and selection of various securities.

Credits: 3
Prerequisites: Lee Business School major or Finance minor and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

**FIN 308 - International Financial Management**
Study of the management of the financial resources of the multinational firm. Includes discussion of the basic differences of an international operation from domestic financial management. Topics include international financial markets, evaluating foreign investment opportunities, theories and practices of financing multinational operations.

Credits: 3
Prerequisites: Lee Business School major or Finance minor or International Business minor or Business Spanish Experience minor; and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

Notes: Satisfies International Requirement.

**FIN 312 - Money and Capital Markets**
Study of how money and capital markets facilitate the flow and creation of credit. Topics include financial institutions and instruments, interest rate theory, and the roles and functions of central banks.

Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

**FIN 321 - Corporate Risk Management**
Introduction to the corporate risk management function and the associated financial tools. Emphasizes the corporate risk management function from a financial perspective, and provides a conceptual framework for making risk management decisions that increase firm value.

Credits: 3
Prerequisites: Lee Business School major or Actuarial Science major or Finance minor or Risk Management and Insurance minor; and a minimum of C grade in FIN 301 or MATH 320. The maximum number of attempts for this course is three.

**FIN 322 - Insurance and Risk Management**
Provides an introduction to risk management and insurance emphasizing personal risk management. Topics include management of risks to personal property, liability risks and risks to income due to death and disability. Discusses the insurance industry, including marketing, underwriting, pricing and claims practices.

Credits: 3
Prerequisites: Lee Business School major or Actuarial Science major or Finance minor or Risk Management and Insurance minor; and a minimum of C grade in FIN 301 or a minimum grade of C in MATH 320. The maximum number of attempts for this course is three.

**FIN 323 - Insurance and Risk Management Operations**
Covered topics include real world examples of insurance and risk management operational practices and the broad spectrum of insurable risks and risk management. Speakers will include industry leaders such as company executives, corporate risk managers, sales leaders, underwriters, claims adjusters, actuaries and loss control engineers.

Credits: 3
Prerequisites: Junior standing or higher, and a minimum grade of C in one of FIN 301 or MATH 170 or MATH 320. The maximum number of attempts for this course is three.

**FIN 345 - Managing New Venture Funding**
Financial issues facing entrepreneurial business ventures at all stages of their existence. Challenges students to build new skills through consideration
of the following frameworks: Introduction and Opportunity assessment, operational aspects of finance related to entrepreneurial ventures, financing growth, and other entrepreneurial finance issues.
Credits: 3
Prerequisites: Lee Business School major or Entrepreneurship minor or Finance minor and a minimum of C grade in FIN 301. The maximum number of attempts for this course is three.

FIN 405 - Advanced Managerial Finance
Intensive analysis of financial problems encountered by various types of business organizations, utilizing cases and emphasizing the corporation. Excel intensive course.
Credits: 3
Prerequisites: Lee Business School major or Finance minor and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 407 - Fixed Income Securities
Introduction to the markets for fixed income securities and their derivatives. Topics include pricing techniques for these instruments, fixed income portfolio management and the measurement and management of the risks inherent in fixed income securities.
Credits: 3
Prerequisites: Lee Business School major or Finance minor and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 410 - Financial Derivatives
Introduces option pricing theory. Defines, describes, and explains various options as well as strategies of options trading. Central focus on the usefulness of options in portfolio management. Development, functions, and importance of commodities markets; principles and mechanisms of trading commodities on future markets. Includes speculation, hedging, and roles of commission houses and commodity exchanges.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 419 - Portfolio Management
Theoretical and practical analysis of investment portfolios, portfolio selection process for individual and institutional investors, and portfolio performance evaluation. Excel intensive course. The maximum number of attempts for this course is three.
Credits: 3
Prerequisites: Lee Business School major or Finance minor and a minimum of C grade in FIN 303 and FIN 307.
Notes: This course is crosslisted with FIN 619. Credit at the 600-level requires additional work.

FIN 420 - Property and Liability Insurance
Examination of risk management for property and liability exposures. Identification of property loss and liability exposures and discussion of available risk management methods, including commercially available insurance coverages. Problems in liability insurance markets and potential solutions discussed.
Credits: 3
Prerequisites: Lee Business School major or Finance minor or Risk Management and Insurance minor; and a minimum of C grade in FIN 303 and FIN 307 and FIN 321 or FIN 322. The maximum number of attempts for this course is three.

FIN 421 - Life and Health Insurance
Analysis of personal and business life and health insurance needs, characteristics of plans appropriate to meet those needs and unique tax and legal aspects of insurance planning. Examination of functional aspects of life/health insurance operations, including underwriting, ratemaking, reserving and financial statement analysis. Discussion of regulation and social
insurance programs.
Credits: 3
Prerequisites: Lee Business School major or Finance minor or Risk Management and Insurance minor; and a minimum of C grade in FIN 303 and FIN 307 and FIN 321 or FIN 322. The maximum number of attempts for this course is three.

FIN 422 - Risk Management Seminar
Analysis of corporate and individual risk management functions and risk handling techniques. Other topics include employee benefit programs, government regulations, insurance, and public policy.
Credits: 3
Prerequisites: Lee Business School major or Finance minor or Risk Management and Insurance minor; and a minimum of C grade in FIN 303 and FIN 307 and FIN 321 or FIN 322. The maximum number of attempts for this course is three.

FIN 425 - Student Managed Investment Fund I
This course is designed to give students hands-on experience in actively managing an actual investment portfolio. Students accept administrative responsibility, form analyst teams, establish selection criteria, research investments, make buy/sell decisions and execute trades.
Admission to the course by permission of the department.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 426 - Student Managed Investment Fund II
Continuation of FIN 425. This course is designed to give students hands-on experience in actively managing an actual investment portfolio. Students accept administrative responsibility, form analyst teams, establish selection criteria, research investments, make buy/sell decisions and execute trades.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 427 - Student Managed Investment Fund III
Continuation of FIN 425, 426. This course is designed to give students hands-on experience in actively managing an actual investment portfolio. Students accept administrative responsibility, form analyst teams, establish selection criteria, research investments, make buy/sell decisions and execute trades.
Credits: 3
Prerequisites: Lee Business School major or Finance minor and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 435 - Financial Modeling
This course provides an introduction to financial modeling using Microsoft Excel. Students will learn to build robust financial models for corporate finance and investments applications which can be used for analysis, planning and evaluation. Students will improve their understanding of Excel's analytical functionality.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 445 - Commercial Banking
Role of a commercial bank within the commercial banking system. Management of a bank's liabilities, capital, and assets. Policy decisions of the board of directors and top management; lending and portfolio policies and practices.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.
FIN 470 - Valuation
Apply financial principles to measure and manage the value of companies using a professional's step-by-step approach. Students estimate free cash flows, economic value added, and cost of capital. They also forecast accounting statements, compare absolute and relative valuation techniques, and evaluate restructuring opportunities and potential flexibility options.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 or FIN 307. The maximum number of attempts for this course is three.

FIN 480 - Entrepreneurial Finance
Focuses on the financial concepts, issues, methods and industry practices relevant to entrepreneurial decision makers. Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, preparation of business plans, and the initial public offering process. Provides understanding of the segments of the capital markets specializing in start-ups and growth financing.
Credits: 3
Prerequisites: Lee Business School major or Finance minor or Entrepreneurship minor; and a minimum of C grade in FIN 303 and FIN 307, or FIN 345. The maximum number of attempts for this course is three.

FIN 485 - Topics in Finance
Advanced study of selected topics in finance (e.g., security regulation, mergers and acquisitions, behavioral finance). The specific topic and prerequisites are announced when the course is offered.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 489 - CFA Exam Preparation
This course is to prepare students for the Chartered Financial Analyst Level I examination. Topics covered include ethics and profession standards, economics and quantitative methods, financial reporting and analysis, corporate finance, equity and fixed income investments, portfolio analysis, derivatives and alternative investments.
Credits: 3
Prerequisites: Lee Business School major or Finance minor; and a minimum of C grade in FIN 303 and FIN 307. The maximum number of attempts for this course is three.

FIN 490 - Independent Study
Study and research in the field of finance.
Credits: 1-3
Prerequisites: Admission to the finance major, senior standing, minimum 3.0 UNLV GPA, minimum grade of C in FIN 303 and FIN 307. The maximum number of attempts for this course is three.
Notes: S/F grading only.
Management Entrepreneurship and Technology

BSBA-Entrepreneurship
BSBA- Information Management
BSBA- Management
Entrepreneurship Minor
Global Entrepreneurship Experience Minor
Information Management Minor
Management Minor

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

Purpose and Focus
The Department of Management, Entrepreneurship and Technology offers courses to prepare students for a variety of careers in general management, entrepreneurship, and human resource management in both the public and the private sectors. The Department of Management, Entrepreneurship and Technology also offers a certificate program in human resource management for the local business community through the College of Extended Studies.

Accreditation
Northwest Commission on Colleges and Universities
AACSB International — The Association to Advance Collegiate Schools of Business

Internships
The Department of Management, Entrepreneurship and Technology offers an internship course that is open to a limited number of students. An internship consists of supervised, on-site work at various participating local enterprises, culminating in a written report. Minimum requirements are admission to a business major, junior standing, a 3.00 GPA or higher, and successful completion of at least nine credits of upper-level management courses. Students interested in participating in the internship program should contact the chair of the Department of Management, Entrepreneurship and Technology then apply for approval from Undergraduate Advising.

Students pursuing an internship course are required to do so within their major field. Internship courses are offered on a satisfactory/fail grading basis only and are considered to be a major elective. A student may receive only three credit hours for an internship.

Management Entrepreneurship and Technology

Entrepreneurship Minor
Requirements - Total Credits: 18
- MGT 302 - Small Business Management
- MGT 304R - Lean Start-Ups
- MGT 497 - Business Plan Creation

Three, three-credit upper-division (300- or 400-level) business courses selected from the following disciplines: ACC, BLW, ECON, FIN, IB, MGT, IS, MKT, RE.
A minimum of 12 credits must be unique to the minor. A course is considered unique if it is not satisfying a requirement for another business major, degree, and/or minor.

Global Entrepreneurship Experience Minor
Requirements - Total Credits: 24
Minimum B- (2.7) grade required in each course. Minimum 2.75 GPA required for the minor
Includes:
- BGES 201 - Entrepreneurial Creativity
Entrepreneurship Major (BSBA)

Entrepreneurship Major - Bachelor of Science in Business Administration
Please see the UNLV Lee Business School web page at http://www.unlv.edu/business for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bsba-entrepreneurship.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at http://www.unlv.edu/business/advising/undergrad.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - The Association to Advance Collegiate Schools of Business www.aacsb.edu/

Learning Outcomes
1. Recognize, analyze, and construct feasible concepts within small business and entrepreneurial environments.
2. Propose plans to gather and organize resources to address evolving opportunity and the ongoing reassessment of needs as the context changes over time.
3. Propose appropriate plans for funding the startup and continued operations of an organization.
4. Develop an operations strategy, involving integrated production and distribution of goods, services, and information as a means to achieve competitive advantage.

University Graduation Requirements
- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits
General Education Requirements - Subtotal: 35-46

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
  • ENG 101 - Composition I
  • ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3
  • MATH 124 - College Algebra or higher

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

  • Humanities and Fine Arts: 9 credits
    o Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
    o Fine Arts, 3 credits required
  • Social Science
    o Automatically satisfied by business requirements
  • Life and Physical Sciences and Analytical Thinking: 6-7 credits
    o Two courses from life and physical sciences category; at least one must have a lab.
    o Analytical Thinking, 3 credits required
      PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement (Credits: 0-6)

Multicultural, one three-credit course required
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirement.

Lee Business School Requirements - BSBA in Entrepreneurship - Subtotal: 75-80 Credits

Business Administration Core Requirements - Credits: 42-45
  • ACC 201 - Financial Accounting
  • ACC 202 - Managerial Accounting
  • ECON 102 - Principles of Microeconomics
  • ECON 103 - Principles of Macroeconomics
  • ECON 261 - Principles of Statistics I
  • Microsoft Office proficiency
  • BLW 302 - Legal and Ethical Environment of Business
  • FIN 301 - Principles of Managerial Finance
  • IS 330 - Strategic Management of Technology and Innovation
  • IS 335 - Business Analytics
  • MGT 301 - Principles of Management and Organizational Behavior
  • MGT 371 - Leadership & Managerial Skills
  • MKT 301 - Marketing Management
  • SCM 352 - Operations Management

Select one capstone course from:
  • BUS 496* - Strategy Management and Policy
  • BUS 498 - Global Business Strategy

Other Lee Business School Requirements - Credits: 6-7
  • BUS 321/ MGT 321 - Business Communication and
Select one from:
  • MATH 127 - Precalculus II
  • MATH 128 - Precalculus and Trigonometry
Entrepreneurship Major Requirements - Credits: 24

- MGT 302 - Small Business Management
- MGT 304R - Lean Start-Ups
- FIN 345 - Managing New Venture Funding
- MKT 472 - Marketing Planning and Analysis
- MGT 497 - Business Plan Creation
- And 9 additional three-credit 300- or -400 level elective business courses (ACC, BLW, ECON, FIN, IB, IS, MGT, MKT, RE, SCM or BUS 481).

General Electives - Credits: 0-13

The number of electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

Total Credits: 120

Notes

1. Students must take BUS 497* as the capstone course in the business core.
2. Students interested in consumer opportunities are encouraged to choose MKT 312 or MKT 425. Students interested in business-to-business opportunities are encouraged to take MKT 473.

Business Administration

BUS 101 - Introduction to Business
Cornerstone course for the Lee Business School. Introduces students to the business profession by integrating information across all departments within the college. Establishes a common foundation for students as business majors. Introduction to business communications, professionalism in business, areas and types of business enterprises.

Credits: 3
Prerequisites: The maximum number of attempts for this course is three.

BUS 321 - Business Communication
Focus on both written and oral business professional communication, specifically writing in a business context and designing and delivering business presentations. Written communication will focus on effective content, organization, style, grammar, citation, and formatting. Professional presentations will focus on effective organization, content, delivery, non-verbal, use of media, and professional appearance.

Credits: 3
Prerequisites: Admission to Lee Business School major and a minimum of C grade in COM 101 and ENG 102.
Same as MGT 321

BUS 395 - Current Issues in Business
Issues discussed in the popular business press. Emphasis on current events and issues in business.

Credits: 2
Prerequisites: Lee Business School major and a minimum of C grade in FIN 301, MGT 301, MKT 301. The maximum number of attempts for this course is three.
BUS 481 - Business Internship
Supervised on-site practical experience in various local enterprises culminating in a written report. Credits: 3
Prerequisites: Department consent, 3.00 GPA, admission to the major, and completion of nine credit hours of courses within the major.
Notes: S/F grading only.

BUS 490 - Individual Study
Study and research in the field of business administration.
Credits: 1-3
Prerequisites: A 3.00 GPA, admission to the major, senior standing and completion of nine credit hours of courses within the major. The maximum number of attempts for this course is three. May be repeated to a maximum of six credits.

BUS 496* - Strategy Management and Policy
Formulation, implementation and evaluation of management strategies for achieving organizational objectives. Integrated coverage of: mission and objectives definition; analysis of external and internal environments including ethics, social responsibilities, and international considerations; and strategic decision making. Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in FIN 301, MGT 301, MKT 301. The maximum number of attempts for this course is three.
Notes: Capstone course.

BUS 498 - Global Business Strategy
Integrated coverage of management strategies relating to international businesses. Special topics include: mission and objectives, analysis of external and internal environments, ethics, strategic decision making, international diversification. Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in FIN 301, MGT 301, MKT 301. The maximum number of attempts for this course is three.
Notes: Satisfies International Requirement. Capstone course.
Information Management Major (BSBA)

Please see the UNLV Lee Business School's Management, Entrepreneurship and Technology Department's web page at http://www.unlv.edu/met for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bsba-information-management.

Please see advising information at the UNLV Lee Business School Advising Center at https://www.unlv.edu/business/advising.

Accreditation

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Program - Association to Advance Collegiate Schools of Business www.aacsb.edu/

Learning Outcomes

1. Identify, collect, and analyze large data sets in organizational settings.
2. Understand modern data storage methodologies.
3. Develop technological solutions for contemporary business problems.
4. Communicate technological concepts to business executives and users.

University Graduation Requirements

- Please see Graduation Policies for complete information

MS in MIS Bridge Option

Students who have an interest in earning a Master of Science in MIS later and who meet current MIS Department requirements may elect to take selected graduate-level courses instead of senior-level undergraduate MIS courses. Contact the MIS Department office for current requirements and the application form or see https://www.unlv.edu/sites/default/files/page_file s/27/InformationManagement-FactSheet-BridgeOption.pdf for details.

Information Management Degree Requirements - Total 120 Credits

General Education Requirements - Subtotal: 35-46 Credits

Where specific courses are not identified, please see the related section of the Undergraduate Catalog for information about which courses may satisfy university core requirements.

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3

- MATH 124 - College Algebra or higher
- MATH 124 - College Algebra or higher

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Total Credits: 9
  - Humanities - 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts - 3 credits required

- Social Science:
  - Automatically satisfied by major requirements
- **Life and Physical Sciences and Analytical Thinking: 9-10**
  - Two Life and Physical Sciences - 6-7 credits
    - One science course with a lab
    - One non-lab science course
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement - Credits: 0-6

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - Information Management
Major - Subtotal: 72-76 Credits

Other Lee Business School Requirements - Credits: 6-7

- BUS 321/ MGT 321 - Business Communication
  And

Select one from:
- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences
- MATH 181 - Calculus I
- MATH 182 - Calculus II

Information Management Major Requirements - Credits: 24

- IS 210 - Introduction to Programming Methodology

- **IS 372** - Information Management-Research Methods and Tools
- **IS 380** - Object-Oriented Programming
- **IS 471** - Big Data
- **IS 475** - Database Design and Implementation
- **IS 489** - Business Intelligence II
- **IS 491** - Big Data Retrieval and Analysis
- And 3 additional credit hours from the 300 or 400 level IS courses.

Business Administration Core Requirements - Credits: 42-45

- **ACC 201** - Financial Accounting
- **ACC 202** - Managerial Accounting
- **BLW 302** - Legal and Ethical Environment of Business
- **ECON 102** - Principles of Microeconomics
- **ECON 103** - Principles of Macroeconomics
- **ECON 261** - Principles of Statistics I
  Microsoft Office proficiency
- **FIN 301** - Principles of Managerial Finance
- **IS 330** - Strategic Management of Technology and Innovation
- **IS 335** - Business Analytics
- **MGT 301** - Principles of Management and Organizational Behavior
- **MGT 371** - Leadership & Managerial Skills
- **MKT 301** - Marketing Management
- **SCM 352** - Operations Management

Select one capstone course from:

- **BUS 496** - Strategy Management and Policy
- **BUS 498** - Global Business Strategy

Electives: 0-13

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: 120

Note:

Every student must complete a three-credit multicultural course and a three-credit international course. Courses satisfying other
requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.

For an approved list, visit http://www.unlv.edu/committees/gec.

**Information Management Systems**

**IS 101 - Introduction to Information Systems**
Concepts and applications of Management Information Systems. Introduction to hardware, software, data, and file concepts. Microcomputer applications software including word processing, spreadsheet, data base, Internet, and presentation software.
Credits: 3
Prerequisites: The maximum number of attempts for this course is three.

**IS 210 - Introduction to Programming Methodology**
Programming methodology for the business information processing environment to include program analysis, design, test, and documentation. Concepts are reinforced by a contemporary programming language. Recommended to take in sophomore year.
Credits: 3
Prerequisites: A minimum grade of C in IS 101 or CS 115 or HON 125. The maximum number of attempts for this course is three.

**IS 330 - Strategic Management of Technology and Innovation**
Provide students with concepts and frameworks for identifying, assessing, creating, and managing technology-enabled innovation in organizations. Include innovation process, the framework to identify, assess, create, and implement innovation in organizations, digital transformation of organizations, managing changes, and tools for prototyping. Through projects, learn how to apply technologies to create innovative digital experiences, products, and services.
Credits: 3
Prerequisites: Admissions to a Lee Business School major. The maximum number of attempts for this course is three.

**IS 335 - Business Analytics**
Introduction to critical thinking with an emphasis on analytics skills, technologies, applications, and practices to leverage the organizations' internal and external information assets for making business decisions in data-rich organizations. Topics include online analytics, interactive reporting, ethical challenges, and business performance management, focusing on advanced pivot tables, Tableau, and SQL.
Credits: 3
Prerequisites: Business School major, Junior or higher standing, and a minimum grade of C in ECON 261.
Notes: Duplicate credits cannot be earned for IS 335 and IS 383 Business Intelligence.

**IS 370 - Systems Analysis Theory**
Analysis, synthesis, design, and development of management information systems. Overview of system development methodologies. Topics include determining information needs, analysis techniques, input/output, processes, system implementation, information engineering, project management, and systems maintenance.
Credits: 3
Prerequisites: Lee Business School major required. The maximum number of attempts for this course is three.

**IS 372 - Information Management-Research Methods and Tools**
Students will be exposed to the Cross-Industry Standard Process for Data Mining (CRISP-DM). Students will also be introduced to multiple statistical methodologies related to the contemporary analysis of organizational data. Taking an analytical approach, understanding why a particular statistical methodology/package
should be used to gain specific business understanding will be a primary focus of the course.

Credits: 3
Prerequisites: Lee Business School major or Information Management minor and ECON 261 or equivalent. The maximum number of attempts for this course is three.

**IS 376 - Enterprise Information Systems Architecture and IBM System i/AS 400**
Introduces the concept of enterprise information systems architecture and its impacts on various aspects of business organizations. Conceptual learnings are reinforced by hands-on exercises in a virtual IBM System i environment.

Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in each of the following courses; MKT 301, IS 210, CS 218, and CS 219. The maximum number of attempts for this course is three.

**IS 378 - Project Management I**
Concepts, skills, tools, and techniques involved in project management. Topics include project organization, project life cycle, planning, executing, budgeting, scheduling, controlling, reporting, and closing. Also, project integration, scope, time, cost, quality, risk management, conflict resolution, and roles and responsibilities.

Credits: 3
Prerequisites: Admissions to a Lee Business School major. The maximum number of attempts for this course is three.

**IS 380 - Object-Oriented Programming**
Introduces concept of object-oriented programming, a structured and powerful programming technique offering advantages over the traditional approach. Students write business application programs using a contemporary object-oriented programming language (Java) to solve real-world problems (e.g. business intelligence, such as big data retrieval, etc.).

Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in IS 210. The maximum number of attempts for this course is three.

**IS 383 - Business Intelligence**
Skills, technologies, applications, and practices to leverage the organizations' internal and external information assets for making intelligent business decisions in data-rich organizations. Topics include online analytics, interactive reporting, data integration, data mining, and business performance management.

Credits: 3
Prerequisites: Admissions to a Lee Business School major. The maximum number of attempts for this course is three.
Notes: Duplicate credits cannot be earned for IS 383 and IS 335 Business Analytics.

**IS 389 - Advanced Business Systems Development**
Advanced methodology of program design, development, testing, implementation, and documentation. Includes coverage of sequential, random, and indexed file structures and processing techniques, use of data base management systems, screen design techniques, system maintenance, and development of programs and systems of programs for batch and interactive environments using contemporary programming languages.

Credits: 3
Prerequisites: Lee Business School major and a minimum grade of C in IS 210. The maximum number of attempts for this course is three.

**IS 438 - Web Application Development**
Develop dynamic web applications with an emphasis on design, programming, testing, implementation, and documentation. Projects use contemporary integrated development environments to develop business software applications that access information over the Internet. Topics include client-side technologies, server-side technologies and data base access.

Credits: 3
Prerequisites: Lee Business School major and a minimum grade of C in IS 210. The maximum number of attempts for this course is three.

**IS 463 - Study and Proposal of New Business Systems**
Methods and techniques required to propose new systems for processes, applications, and products. Topics include 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.
Credits: 3
Prerequisites: Lee Business School major and a minimum grade of C in IS 378. The maximum number of attempts for this course is three.

**IS 468 – Telecommunication and Security**
Concepts of telecommunications, including wireless and mobile technology. Focus on technical aspects of telecommunications as well as security implications of the communications technologies.
Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in IS 210. The maximum number of attempts for this course is three.

**IS 471 - Big Data**
Introductory course to big data concepts, tools and methods. Students will be exposed to and work with big data sets and derive business solutions from their analyses.
Credits: 3
Prerequisites: Lee Business School major or Information Management minor and IS 372. The maximum number of attempts for this course is three.
Notes: This course is crosslisted with MIS 671. Credit at the 600-level requires additional work.

**IS 475 - Database Design and Implementation**
Introduction to relational database concepts, and all issues related to the design and implementation of relational database systems. Emphases include entity relationships modeling, normalization, and structured query language (SQL). Students apply technical concepts through implementation of a database project.
Credits: 3
Prerequisites: Lee Business School major and a minimum grade of C in IS 335 or IS 383. The maximum number of attempts for this course is three.

**IS 476 - Oracle Database Administration**
Provides a foundation in basic Oracle database administrative tasks. Students introduced to the Oracle database architecture, and how various software components relate to an actual database implementation. Examines the means to create, tune, monitor, and manage an operational database effectively. Lectures and discussions reinforced with hands-on practice.
Credits: 3
Prerequisites: Lee Business School major and a minimum grade of C in IS 475. The maximum number of attempts for this course is three.

**IS 478 - Advanced Data Communications**
Principles and advanced practices of network security, with an emphasis on the use of intrusion detection techniques to deter, detect, assess, and respond to network intruders. Foundations of network security, design of a network defense using firewalls, virtual private networks, and intrusion detection tools and techniques.
Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in IS 468. The maximum number of attempts for this course is three.

**IS 480 - Internship in Information Systems**
Supervised practical experience with a computing facility, industrial firm, or governmental agency, leading to experience at a professional level.
Credits: 1-3
Prerequisites: A 3.00 GPA, admissions to the major, and completion of nine credit hours within the major. A minimum grade of C is required in each major course. The maximum number of attempts for this course is three.
Notes: S/F grading only.

**IS 484 - IT Sourcing and Leadership**
This course focuses on the sourcing issues for IS development and integration in organizations. Topics include outsourcing, offshoring, multisourcing, vendor selection, vendor evaluation, coordination and negotiation, risk mitigation, contract management, relationship management, intellectual property, sustainability and long-term strategy, culture of integration, retention, social influences, core competencies, and critical success factors.
Prerequisites: Lee Business School major and a minimum of C grade in IS 210. The maximum number of attempts for this course is three.

**IS 485 - Seminar in Information Systems**
Selected topics, studies of current interests in management information systems.
Credits: 1-3
Prerequisites: Lee Business School major required. May be repeated to a maximum of six credits. The maximum number of attempts for this course is three.

**IS 486 - Seminar in Information Systems II**
Selected topics, studies of current interests in management information systems.
Credits: 3
Prerequisites: Lee Business School major required. May be repeated to a maximum of six credits. The maximum number of attempts for this course is three.

**IS 489 - Business Intelligence II**
Implementation of Data Warehousing / Business Intelligence applications including requirements management, data design, ETL, dimension and cube development, and reporting. Also includes current issues in data mining and analytics to support business strategic planning and innovation.
Credits: 3
Prerequisites: Lee Business School major or Information Management minor, and a minimum C grade in IS 335 or IS 383. The maximum number of attempts for this course is three.

**IS 490 - Independent Study in Information Systems**
Investigation of special problems in management information systems.
Credits: 1-3
Prerequisites: Admissions to the major, a 3.00 GPA, senior standing, and completion of nine credit hours within the major. The maximum number of attempts for this course is three. May be repeated to a maximum of six credits.

**IS 491 - Big Data Retrieval and Analysis**
Project-based course, provides a culminating experience to implement methods and techniques to retrieve and analyze big data for business. Students will learn relevant tools to retrieve and manipulate structured and unstructured data from various sources. Concepts and popular tools for analyzing data will be used to derive business insights.
Credits: 3
Prerequisites: Lee Business School major or Information Management minor, and a minimum C grade in IS 372. The maximum number of attempts for this course is three.

**IS 495 - IS Development and Management**
Capstone MIS course. Students working in groups formulate, design, program, document, and implement a major information systems project under the guidance of various MIS staff members. Management of the information systems function, systems integration, and project management to ensure project quality.
Credits: 3
Prerequisites: Lee Business School major and a minimum of C grade in IS 370 and IS 475. The maximum number of attempts for this course is three.
Management Major (BSBA)

Management Major - Bachelor of Science in Business Administration (BSBA)

Please see the UNLV Lee Business School's Management, Entrepreneurship and Technology Department's web page at www.unlv.edu/met for information about department programs, faculty and facilities. Degree worksheets and 4/5 year plans for the major and concentration are available at https://www.unlv.edu/degree/bsba-management, https://www.unlv.edu/degree/human-resource-management.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at www.unlv.edu/business/advising.

Accreditation

Institution - Northwest Commission on Colleges and Universities (www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business (www.aacsb.edu)

Learning Outcomes

1. Identify and explain the major tasks of the manager
2. Discuss and apply major theories concerning the behavior of people in modern business organizations
3. Identify and discuss alternate theories concerning the role of business in society, and implications of these theories
4. Identify and discuss key issues involved in international management
5. Identify and discuss key issues in the relations between workers and managers
6. Work with others to identify issues and prepare solutions in the practical management of business
7. Present analyses of and solutions to management problems in oral, written, and visual forms.

University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 35-46 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Credits: 9
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required

- Social Science:
  - Automatically satisfied by business requirements

- Life and Physical Sciences and Analytical Thinking: 9-10
  - Two Life and Physical Sciences - 6-7 credits
    - One science course with a lab

University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 35-46 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Credits: 9
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required

- Social Science:
  - Automatically satisfied by business requirements

- Life and Physical Sciences and Analytical Thinking: 9-10
  - Two Life and Physical Sciences - 6-7 credits
    - One science course with a lab

171
One non-lab science course
  - Analytical Thinking - 3 credits
  - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement - Credits: 0-6

Multicultural, one three-credit course required
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirement.

Lee Business School Requirements - BSBA in Management - Total: 120 Credits

Other Lee Business School Requirements - Credits: 6-7

- BUS 321/ MGT 321 - Business Communication
- Select one from:
  - MATH 127 - Precalculus II
  - MATH 128 - Precalculus and Trigonometry
  - MATH 132 - Finite Mathematics
  - MATH 176 - Introductory Calculus for Business and Social Sciences
  - MATH 181 - Calculus I
  - MATH 182 - Calculus II

Business Administration Core Requirements - Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- BLW 302 - Legal and Ethical Environment of Business
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
- Microsoft Office proficiency
- IS 330 - Strategic Management of Technology and Innovation
- IS 335 - Business Analytics
- FIN 301 - Principles of Managerial Finance
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 371 - Leadership & Managerial Skills
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:
- BUS 496* - Strategy Management and Policy
- BUS 498 - Global Business Strategy

Management Major Requirements - Credits: 24

REQUIRED (12 hours)
- MGT 367 - Human Resource Management
- MGT 391 - Quantitative Analysis
- MGT 492 - Advanced Organizational Behavior
- MGT 494 - Seminar in Management

REQUIRED ELECTIVES (12 hours)
Twelve credits selected from the following list:
- BUS 481 - Business Internship
- IS 475 - Database Design and Implementation
- IS 489 - Business Intelligence II
- Any UD management (MGT) course not already required.

General Electives - Credits: 0-13

The number of electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

Total Credits: 120

Management Major with Human Resource Management Concentration - Credits: 24
Management majors who want to focus on human resources may do so by declaring the Human Resource Management concentration. This concentration within the management major will prepare students for one of the most fundamental aspects of any business: hiring the right people for the right jobs. Students will also learn how to retain, train, compensate and gain a competitive advantage through those they hire. Students should declare their interest in the Human Resource Management concentration with an academic advisor in Lee Business School. Concentration courses replace the management major requirements (24 credits).

REQUIRED (18 hours)
- MGT 367 - Human Resource Management
- MGT 391 - Quantitative Analysis
- MGT 470 - Compensation
- MGT 473 - Staffing and Development
- MGT 492 - Advanced Organizational Behavior
- MGT 494 - Seminar in Management

ELECTIVES (6 hours)
Six credits selected from the following list:
- MGT 468 - Employment Law
- MGT 475 - Seminar in Human Resource Management
- MGT 483 - Negotiation
- BUS 481 - Business Internship

Management

MGT 301 - Principles of Management and Organizational Behavior
This course discusses fundamentals and principles of management, including planning, decision making and problem solving, strategic management, structure and design, leadership, control, oral and written communication, and ethics and social responsibility.
Credits: 3
Prerequisites: Lee Business School major or any of the following minors - Business Administration, International Business, or Management. The maximum number of attempts for this course is three.

MGT 302 - Small Business Management
Shows what is involved in forming, operating, and/or owning a small business. For those who work in a small business or want to start a small business.
Credits: 3
Prerequisites: Lee Business School major or Entrepreneurship minor or Management minor. The maximum number of attempts for this course is three.

MGT 304R - Lean Start-Ups
Students map out product ideas by describing nine core components on a business model canvas. Students validate models by talking to customers, suppliers, and key partners. Students iterate through the customer development process until they have convincing proof of a viable business model. Benefits students from a variety of backgrounds.
Credits: 3
Prerequisites: Lee Business School major or Entrepreneur minor, or Management minor. The maximum number of attempts for this course is three.
MGT 305 - Applied Entrepreneurship
Internationally recognized course in partnership with NxLeveL and the Nevada Small Business Development Center for students who want to start and grow businesses. NxLeveL certified instructors cover entrepreneurial assessment, research, organization, marketing, financial planning, cash flow, and raising capital. Students will develop comprehensive business plans.
Credits: 3
Prerequisites: Lee Business School major or Management minor. The maximum number of attempts for this course is three.
Notes: Course will not count as an elective for the entrepreneurship major.

MGT 321 - Business Communication
Focus on both written and oral business professional communication, specifically writing in a business context and designing and delivering business presentations. Written communication will focus on effective content, organization, style, grammar, citation, and formatting. Professional presentations will focus on effective organization, content, delivery, non-verbal’s, use of media, and professional appearance.
Credits: 3
Prerequisites: Admission to Lee Business School major and minimum grade of C in COM 101 and ENG 102.
Same as BUS 321

MGT 367 - Human Resource Management
Objectives, functions, organization, and philosophy of personnel relations. Special emphasis on employment, training, and labor relations.
Credits: 3
Prerequisites: Lee Business School major or Business Administration minor or Management minor. The maximum number of attempts for this course is three.

MGT 371 - Leadership & Managerial Skills
This course focuses on the skills of effective leaders and managers with an emphasis on: (1) leadership emergence in work settings; (2) how to lead and manage others effectively; and (3) leadership challenges in the contemporary business landscape such as the intersection of leadership with ethics.
Credits: 3
Prerequisites: Lee Business School major or Management minor. The maximum number of attempts for this course is three.

MGT 391 - Quantitative Analysis
Identification and formulation of decision problems; introduction to the use of quantitative tools in business including linear programming, non-linear programming, game theory and similar techniques; construction of quantitative models and their relationship to the use of electronic computers in business decision making.
Credits: 3
Prerequisites: Lee Business School major or Business Administration minor or Management minor and a minimum of C grade in MATH 127 or MATH 128 or MATH 132 or MATH 176 or MATH 181 or MATH 182. The maximum number of attempts for this course is three.

MGT 413 - Private Equity
This course is focused on private equity. In conjunction with the Rebel Venture Fund (RVF), students will identify and screen investment opportunities, interact with existing portfolio companies, and make investment recommendations to the RVF management board.
Credits: 3
Prerequisites: Lee Business School major and instructor approval to enroll. The maximum number of attempts for this course is three.
Notes: This course is crosslisted with MGT 613. Credit at the 600-level requires additional work.
MGT 415 - Business and Society
Study of the evolution of American business in the context of its changing political and social environment. Analysis of the origins of the American business creed, the concept of social responsibility of business, and the expanding role of the corporation.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum grade of C or higher in MGT 301 and BLW 302. The maximum number of attempts for this course is three.
Notes: This course is crosslisted with MGT 615. Credit at the 600-level requires additional work.

MGT 442 - Entrepreneurial Solutions to Social Problems
Cutting-edge market-based approaches of dealing with important social problems, the critical process of impact measurement, and the importance of scaling of impact. Students will gain the skills to assess and design improved social entrepreneurial organizations.
Credits: 3
Prerequisites: Minimum grade of C in MGT 302. The maximum number of attempts for this course is three.

MGT 450 - Systems Simulation
Simulation and modeling. Monte Carlo techniques. Generation of random and stochastic variables; verification of simulation models; design of simulation experiments.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum grade of C or higher in MGT 391. The maximum number of attempts for this course is three.

MGT 465 - Collective Bargaining and Public Policy
Systematic discussion of the major labor problems confronting society. Problems relating to management and union, industrial conflicts, collective bargaining, and legal environment considered.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum grade of C or higher in ECON 102 or HON 202. The maximum number of attempts for this course is three.

MGT 468 - Employment Law
In-depth exposure to both federal and state legislation involving equal employment opportunity, occupational safety and health, and labor-management relations. Information on and experience in developing, organizing, and constructing an Affirmative Action Plan for both the public and private sectors.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum grade of C or higher in MGT 367. The maximum number of attempts for this course is three.

MGT 470 - Compensation
Analysis of manager and worker jobs in private and public organizations and the social, psychological, economic, and legal influences that affect their compensation.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum grade of C or higher in MGT 367. The maximum number of attempts for this course is three.
MGT 473 - Staffing and Development
This course focuses on the skills and methods managers need to manage staffing and development activities in organizations.
Credits: 3
Prerequisites: Lee Business School major or any of the following minors - Business Administration, Entrepreneurship, International Business, or Management, and a minimum grade of C or higher in MGT 367. The maximum number of attempts for this course is three.

MGT 475 - Seminar in Human Resource Management
Capstone course in personnel/human resource management with emphasis on current topics and issues in personnel, legal issues, and quantitative computer tools for personnel decision making. Specialized seminar in management geared toward industrial relations management.
Credits: 3
Prerequisites: Lee Business School major or International Business minor or Management minor and a minimum grade of C or higher in MGT 367. The maximum number of attempts for this course is three.

MGT 480 - International Management
Strategy, operations, and external relationships involved in international commerce with emphasis on the management of multinational corporations.
Credits: 3
Prerequisites: Lee Business School major or International Business minor or Management minor and a minimum grade of C or higher in MGT 301. The maximum number of attempts for this course is three.
Notes: Satisfies International Requirement. This course is crosslisted with MGT 680. Credit at the 600-level requires additional work.

MGT 483 – Negotiation
This course is designed to enhance understanding of the negotiation process, and the ability to negotiate deals, dispute settlements and team decisions. The role of third parties in the negotiation process (arbitrators, mediators and managers as third parties) will also be examined.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum grade of C or higher in MGT 301. The maximum number of attempts for this course is three.

MGT 486 - Seminar in Quantitative Management Systems
Selected topics, readings, and discussion of current issues in quantitative management systems.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum grade of C in MGT 391. The maximum number of attempts for this course is three.

MGT 490 - Individual Study
Independent study in selected topics.
Credits: 1-3
Prerequisites: Lee Business School major and a 3.00 GPA, senior standing, successful completion of nine credit hours of upper-division management courses, and consent of instructor. Minimum grade C or higher required in each management major course. The maximum number of attempts for this course is three.
May be repeated to maximum of six credits.
MGT 492 - Advanced Organizational Behavior
Concepts, theories, and case studies concerning the behavior of people in modern business organizations.
Credits: 3
Prerequisites: Lee Business School major or International Business minor or Management minor and a minimum of C grade in MGT 301. The maximum number of attempts for this course is three.

MGT 493 - Seminar in Entrepreneurship
Advanced analysis of the nature, problems and approaches to, financing, managing, marketing, staffing and operating the entrepreneurial organization through the study of recent, relevant literature and selected cases.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade in MGT 301. The maximum number of attempts for this course is three.

MGT 494 - Seminar in Management
Analysis of the nature and problems of, and approaches to, management planning, organizing, decision making, and controlling through the study of recent relevant literature and selected cases.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade in MGT 301. The maximum number of attempts for this course is three.

MGT 495 - Advanced Decision Systems
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade in MGT 391. The maximum number of attempts for this course is three.

MGT 497 - Business Plan Creation
Learn how to create investor quality business plans. Follow a step-by-step process to develop business plan from an opening executive summary to a financial offering.
Credits: 3
Prerequisites: Admission to a business major/junior standing. The maximum number of attempts for this course is three.
Marketing and International Business

BSBA-International Business
BSBA-Marketing
Business Spanish Experience Minor
International Business Minor
Marketing Minor

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

Purpose and Focus
The Department of Marketing and International Business provides a professional orientation to education with course work 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.

Accreditation
Northwest Commission on Colleges and Universities
AACSB International — The Association to Advance Collegiate Schools of Business

International Business Major - Bachelor of Science in Business Administration (BSBA)
Please see the UNLV Lee Business School Marketing and International Business Department's web page at www.unlv.edu/mib for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bsba-international-business.

Please see advising information at the UNLV Lee Business School Undergraduate Advising's web page at www.unlv.edu/business/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities (www.nwccu.org)
School - Association to Advance Collegiate Schools of Business (www.aacsb.edu)

Learning Outcomes
By the end of the IB program students will be able to:

1. Demonstrate third year language proficiency and cultural knowledge in the student’s chosen foreign language
2. Demonstrate working knowledge of a chosen functional area of business
3. Explain the factors that determine international trade patterns and capital
flows, and analyze their impact on global business operations.

4. Identify the major components of culture and explain how cultural differences affect the conduct of business.

**University Graduation Requirements**
- Please see Graduation Policies for complete information.

**Degree Requirements - Total: 120-135 Credits**

The international business major provides students with a general understanding and appreciation of global business and economic environments, various cultures, and diverse values. This interdisciplinary program combines liberal arts studies and professional education. As such, the program has its roots in disciplines dealing with the basics of behavioral studies, with theoretical structures and with empirical analyses. The program provides a foundation for understanding current and future business and economic conditions.

An increasing share of local, regional, and national economic activities are attributed to exports, imports, trade in intellectual property and technology-intensive products, U.S. investment abroad, and foreign investment in the United States. These patterns of business activities require personnel, both at home and abroad, with a solid academic base for dealing with the changing concepts, practices, and integrated international business organizations. In addition, such personnel must have an in-depth understanding of other nations, languages, and cultures. The program includes opportunities for students to obtain part of their education in foreign universities such as in UNLV's Turin, Italy, program.

The international business major also prepares students for advanced degrees in areas such as business administration, public administration, law, economics, and other social science and liberal arts disciplines. Students pursuing the major in international business may pursue other business majors by completing the respective requirements.

For details about admission requirements, transfer policies, degree and graduation requirements, and college policies, please refer to the Lee Business School section of the *Undergraduate Catalog*.

**General Education Requirements - Subtotal: 35-46 Credits**

**First-Year Seminar - Credits: 2-3**

**English Composition - Credits: 6**
- ENG 101 - Composition I
- ENG 102 - Composition II

**Second-Year Seminar - Credits: 3**

**Constitutions - Credits: 3-6**

**Mathematics - Credits: 3**
- MATH 124 - College Algebra
- MATH 124 - College Algebra or higher

**Distribution Requirement - Credits: 18-19**
Please see Distribution Requirements for more information.

- **Humanities and Fine Arts - Total Credits: 9**
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required

- **Social Science:**
  - Automatically satisfied by business requirements

- **Life and Physical Sciences and Analytical Thinking: 9-10**
  - Life and Physical Sciences - 6-7 credits
- One science course with a lab
- One non-lab science course
  - Analytical Thinking - 3 credits
  - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement - Credits: 0-6
Multicultural, one three-credit course required
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirement.

Lee Business School Major Requirements - BSBA in International Business - Subtotal: 87-92 Credits

Other Lee Business School Requirements - Credits: 6-7
- BUS 321/ MGT 321 - Business Communication

  Select one from:
  - MATH 127 - Precalculus II
  - MATH 128 - Precalculus and Trigonometry
  - MATH 132 - Finite Mathematics
  - MATH 176 - Introductory Calculus for Business and Social Sciences
  - MATH 181 - Calculus I
  - MATH 182 - Calculus II

Business Administration Core Requirements - Credits: 42-45
- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
- Microsoft Office Proficiency
- BLW 302 - Legal and Ethical Environment of Business
- FIN 301 - Principles of Managerial Finance
- IS 330 - Strategic Management of Technology and Innovation
- IS 335 - Business Analytics
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 371 - Leadership & Managerial Skills
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:
- BUS 496* - Strategy Management and Policy
- BUS 498 - Global Business Strategy

International Business major requires 24 credit hours — 18 business credits (9 credits IB requirements + 9 credits functional business area) + 6 language/area studies

International Business Area Requirements - Credits: 9
- IB 425 - Global Consumer Behavior and The Consumer Experience
  or
  - MKT 425 - Global Consumer Behavior and The Consumer Experience
- IB 480 - International Business
  or
  - MGT 480 - International Management
- IB 456 - International Marketing
  or
  - MKT 456 - International Marketing

Functional Business Area Requirement - Credits: 9
Three 3-credit, upper-division (300- and 400- level) courses from one of the following functional areas of business (ECON, FIN, MGT, and MKT). Courses taken to satisfy the international business
requirement cannot be counted toward the functional business area requirement.

- **ECON**: ECON 312 or ECON 358 plus two upper-division (300- and 400-level) IB or ECON electives.
- **FIN**: FIN 308 plus two upper-division (300- and 400-level) IB or FIN electives.
- **MGT**: Three upper-division (300- and 400-level) IB or MGT electives.
- **MKT**: Three upper-division (300- and 400-level) IB or MKT electives.

**Language/Area Studies Requirement - Credits: 6**

Students must demonstrate an understanding of world culture through world language or area studies courses. This requirement is satisfied by the completion of 6 credits in:

A. 300-level or higher courses taught in another language and/or
B. Approved courses in area studies. See list at: https://www.unlv.edu/business/advising

Minimum of a C in all courses is required.

**General Electives - Credits: 0-13 Dependent on level of language proficiency**

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

**Total Credits: 120-123**

**Notes**

1. Students must take BUS 496* or BUS 498 as capstone course in the business core.

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**Marketing and International Business**

**IB 225 - Contemporary Analysis of the Hispanic Experience in Business**

This course explores issues relevant to the Hispanics in business through the reading of current Hispanic and mainstream business press and books. The course explores the challenges and impact of Hispanic business leaders. Readings will center on Hispanic, and other minorities, path to success.

Credits: 3

Prerequisites: ENG 101, ENG 102 and FYS (or equivalent) ability to read in Spanish - department consent required. The maximum number of attempts for this course is three.

Notes: Satisfies the Multicultural Requirement.

Same as MKT 225

**IB 385 - Topics in International Business - Study Abroad**

Study of selected topics of current interest in international business, cross-cultural business or area studies. Offered through the Office of International Programs.

Credits: 1-4

Prerequisites: Admissions to a Lee Business School major or International Business minor.

May be repeated to a maximum of twelve credits.

**IB 386 - Experiential Learning in International Business – Study Abroad**

Supervised on-site practical experience in international business culminating in a written report, undertaken while on study abroad. Offered through Office of International Programs.

Credits: 0-3

Prerequisites: Lee Business School major or Lee Business School minor and a minimum grade of C in ACC 202 or ECON 103 or FIN 301 or MKT 301 or MGT 301. The maximum number of attempts for this course is three.

Notes: S/F grading only.
IB 425 - Global Consumer Behavior and The Consumer Experience
Application of consumer buying process and consumption experience theories to the formulation of marketing-strategy and tactics across global markets. Focus is on human psychological and physiological processes that explain how consumers decide what to purchase, how they experience consumption, and how those processes vary across countries and inform marketing-strategy decisions.
Credits: 3
Prerequisites: Lee Business School major or International Business or Marketing minor; and a minimum grade of C in MKT 301. The maximum number of attempts for this course is three.
Notes: Same as MKT 425.

IB 435 - Marketing to Hispanics, in the US and Globally
This course focuses on Marketing to Hispanics. Given the growth of Hispanics in the USA globally, how to effectively market to the various subcultures within the Hispanic segment is key. The course will examine the similarities and differences of Marketing strategies to Hispanics within the USA, versus globally.
Credits: 3
Prerequisites: Lee Business School major or International Business minor or Marketing Minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.
Notes: Same as MKT 435

IB 456 - International Marketing
Principles, policies, opportunities, and obstacles in the marketing of goods and services in global markets. Global trade theory, application of the marketing mix variables in cross-cultural settings, and the tactics and strategies of multinational businesses.
Credits: 3
Prerequisites: Lee Business School major or International Business minor or Marketing minor and a minimum C grade in MKT 301. The maximum number of attempts for this course is three.
Notes: Satisfies the International Requirement.
Same as MKT 456 - International Marketing

IB 480 - International Business
This course considers the objectives and strategies of international business in the context of global competition. It equips students with a comprehensive framework to formulate strategies in the global marketplace, with intensive study of the unique aspects of doing business in foreign continents.
Credits: 3
Prerequisites: Lee Business School major or International Business minor and a minimum of C grade in MGT 301. The maximum number of attempts for this course is three.

IB 483 - International Business Internship
Supervised on-site practical experience in international business at an enterprise or agency, culminating in a written report.
Credits: 0-3
Prerequisites: International Business major, senior, 3.0 UNLV GPA, nine credits earned in the major, and department consent. The maximum number of attempts for this course is three.
Notes: May occur locally or abroad. S/F grading only. Can be repeated for a maximum of 3 credits.

MKT 225 - Contemporary Analysis of the Hispanic Experience in Business
This course explores issues relevant to the Hispanics in business through the reading of current Hispanic and mainstream business press and books. The course explores the challenges and impact of Hispanic business leaders. Readings will center on Hispanic, and other minorities, path to success.
Credits: 3
Prerequisites: ENG 101, ENG 102 and FYS (or equivalent) ability to read in Spanish - department consent required. The maximum number of attempts for this course is three.
Notes: Satisfies the Multicultural Requirement.
Same as IB 225
Marketing Major (BSBA)

Marketing Major - Bachelor of Science in Business Administration (BSBA)  
Please see the UNLV Lee Business School, Marketing Department web page at http://www.unlv.edu/mib for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bsba-marketing

Please see advising information at the UNLV Lee Business School Undergraduate Advising's web page at www.unlv.edu/business/advising

Accreditation

Institution - Northwest Commission on Colleges and Universities (www.nwccu.org)  
School - Association to Advance Collegiate Schools of Business (www.aacsb.edu)

Learning Outcomes  
1. Synthesize topic-related basic and applied research in marketing  
2. Incorporate research based consumer psychology into marketing problem analysis and strategy.  
3. Critically evaluate marketing strategies.  
4. Describe, evaluate and apply a market orientation

University Graduation Requirements  
- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 35-46 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I  
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Credits: 9  
  o Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.  
  o Fine Arts, 3 credits required

- Social Science:  
  o Automatically satisfied by business requirements

- Life and Physical Sciences and Analytical Thinking: 9-10  
  o Two Life and Physical Sciences - 6-7 credits
    ▪ One science course with a lab
    ▪ One non-lab science course  
  o Analytical Thinking - 3 credits
    ▪ PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement (Credits: 0-6)

Multicultural, one three-credit course required  
International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of
approved multicultural and international courses, go to: www.unlv.edu/provost/multicultural-requirement.

Major Requirements - BSBA in Marketing - Subtotal: 75-80 Credits

Business Administration Core Requirements - Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
- Microsoft Office proficiency
- BLW 302 - Legal and Ethical Environment of Business
- FIN 301 - Principles of Managerial Finance
- IS 330 - Strategic Management of Technology and Innovation
- IS 335 - Business Analytics
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 371 - Leadership & Managerial Skills
- MKT 301 - Marketing Management
- SCM 352 - Operations Management
- Select one capstone course from:
  - BUS 496* - Strategy Management and Policy
  - BUS 498 - Global Business Strategy

Other Lee Business School Requirements - Credits: 6-7

- BUS 321/ MGT 321 - Business Communication
  and
  Select one from:
  - MATH 127 - Precalculus II
  - MATH 128 - Precalculus and Trigonometry
  - MATH 132 - Finite Mathematics
  - COM 102 - Introduction to Interpersonal Communication
  - MATH 176 - Introductory Calculus for Business and Social Sciences
  - MATH 181 - Calculus I
  - MATH 182 - Calculus II

Marketing Major Requirements - Credits: 24

- MKT 400 - Marketing Research
- IB 425 - Global Consumer Behavior and The Consumer Experience
  or
- MKT 425 - Global Consumer Behavior and The Consumer Experience
- MKT 472 - Marketing Planning and Analysis
- MKT 495 - Marketing Policies
- Select four courses from the following list.
  - MKT 380 - Managing Customer Experiences in the Digital World
  - MKT 422 - Advertising and Promotional Management
  - MKT 441 - Distribution Systems
  - MKT 442 - Marketing the Retail Experience
  - MKT 448 - Projects, Competitions and Cases in Marketing Research
  - MKT 450 - Competitive Strategies for Product and Price Management
  - MKT 455 - Services Marketing
  - MKT 456 - International Marketing
  or
  - IB 456 - International Marketing
  - MKT 464 - Professional Sales Negotiations Strategies and Tactics
  - MKT 465 - Sales Force Management
  - MKT 468 - Database Marketing
  - MKT 473 - Business Marketing
  - MKT 483 - Marketing Internship
  - MKT 490* - Independent Study in Marketing
  - MKT 492 - Advanced Seminar in Marketing
  - MKT 494 - Experience Marketing
  - SCM 474 - Purchasing and Global Sourcing
  Or any 300 or 400 level MKT elective course offered by UNLV

Electives - Credits: 0-13

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

Total: 120 Credits
Marketing

**MKT 301 - Marketing Management**
Planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives. Focuses on concepts and frameworks informing strategic, tactical, and ethical marketing decisions. Features modules on segmentation, positioning, the 4 Ps, ethics/social responsibility, and communication of marketing proposals.
Credits: 3
Prerequisites: Lee Business School major or any of the following minors - Business Administration, International Business, or Marketing. The maximum number of attempts for this course is three.

**MKT 312 - Buyer Behavior**
Individual differences, social and cultural factors, and situational variables that impact on attitude formation and change, learning, decision making, and behavior of consumers. Emphasis on the use of this information to develop marketing programs.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 380 - Managing Customer Experiences in the Digital World**
Theory and practice of marketing in the digital world. Focuses on the role of digital technologies in a marketing strategy and the shaping of customer experiences in the digital world using online and mobile platforms, tactics, and tools. Course requires formulation of an original digital marketing strategy.
Credits: 3
Prerequisites: Lee Business School major or International Business minor or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 400 - Marketing Research**
Methodology of research. Focuses on topics such as research design, sample design, questionnaire construction, field procedures, data analysis, and report preparation. Involves practical experience in marketing research.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301 and ECON 261 or equivalent. The maximum number of attempts for this course is three.

**MKT 422 - Advertising and Promotional Management**
The communication process as it relates to the promotional mix, including both traditional and non-traditional media. Theories and applications pertaining to all strategically managed areas of marketing communications are covered.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 425 - Global Consumer Behavior and The Consumer Experience**
Application of consumer buying process and consumption experience theories to the formulation of marketing-strategy and tactics across global markets. Focus is on human psychological and physiological processes that explain how consumers decide what to purchase, how they experience consumption, and how those processes vary across countries and inform marketing-strategy decisions.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor or International Business minor; and a minimum grade of C in MKT 301. The maximum number of attempts for this course is three.
three.
Notes: Same as IB 425.

**MKT 427 - Advertising Campaigns**
Study of the components of a successful advertising campaign. Students undertake preliminary preparations for an actual ad campaign.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in, MKT 312 or MKT 422 or JOUR 261. The maximum number of attempts for this course is three.

**MKT 435 - Marketing to Hispanics, in the US and Globally**
This course focuses on Marketing to Hispanics. Given the growth of Hispanics in the USA globally, how to effectively market to the various subcultures within the Hispanic segment is key. The course will examine the similarities and differences of Marketing strategies to Hispanics within the USA, versus globally.
Credits: 3
Prerequisites: Lee Business School major or International Business or Marketing minor; and a minimum C grade in MKT 301. The maximum number of attempts for this course is three.
Notes: Same as IB 435

**MKT 441 - Distribution Systems**
Structure of institutions in the channel of distribution, including retailers, wholesalers, and agent middlemen. Organization and appraisal of movement and storage of raw materials, work-in-process, and finished goods, middleman functions, including inventory and price policies, trade sales promotion, franchising, and other vertical marketing systems.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 442 - Marketing the Retail Experience**
Creating and marketing global retailing experiences. Focuses on retailing functions and strategies for value-driven, profitable in-store and digital consumer shopping experiences. Course features coverage of emerging issues and trends, field visits, guest speakers, and formulation of an original customer retailing experience using marketing variables.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 448 - Projects, Competitions and Cases in Marketing Research**
Data driven marketing strategies and decision making based on combining all aspects of the research process. Integration of results from qualitative and quantitative exploratory, descriptive, and causal primary and secondary research.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 450 - Competitive Strategies for Product and Price Management**
Competitive analysis and planning techniques for product and price management. Focus on defining the competition, analyzing the competition’s posture, and positioning, developing competitive strategies and tactics, market opportunity analysis, segmentation, competitive analysis, product positioning, brand equity management, setting and managing price.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.
MKT 455 - Services Marketing
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 industries as health care, the professions, the arts, banking, financial services, advertising and communications, and consulting.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

MKT 456 - International Marketing
Principles, policies, opportunities, and obstacles in the marketing of goods and services in global markets. Global trade theory, application of the marketing mix variables in cross-cultural settings, and the tactics and strategies of multinational business.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor or International Business and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

MKT 464 - Professional Sales Negotiations
Strategies and Tactics
The theory, processes, and practices of sales negotiation, relationship building and conflict resolution. Builds on the concepts learned in the Marketing Management course. Develops an understanding of the marketing theories, strategies, and tactics of effective sales negotiation, conflict resolution, and relationship management.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

MKT 465 - Sales Force Management
Management of the sales force strategies for marketing products and services. Topics include the strategic role of the sales function; the sales process; relationship and sales channel strategies; the design, development, direction, and evaluation of the sales organization; and ethical and global dimensions.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum grade of C in MKT 301. The maximum number of attempts for this course is three.

MKT 468 - Database Marketing
Theory, concepts, and skills associated with using databases to enhance marketing programs and build strong relationships with customers.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

MKT 470 - Direct Marketing
Principles and applications of direct marketing, frequency marketing programs, relationship marketing, and integrated marketing. Focus on database management, selection of products and services, and developing the offer.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.
Notes: This course is crosslisted with MKT 670*. Credit at the 600-level requires additional work.

MKT 471 - Marketing Analytics
Identification, analysis, assessment and use of data relevant to marketing strategy decision making. Focus is on turning data into information and information into data driven marketing strategies and on ethical and technical issues related to data privacy. Course requires an original project that
applies analytics to a marketing decision situation.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum grade of C in MKT 301 and ECON 261. The maximum number of attempts for this course is three.

**MKT 472 - Marketing Planning and Analysis**
Marketing planning skills. Includes practice of developing marketing plans and the use of marketing technology and models in the marketing planning process.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 473 - Business Marketing**
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.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

**MKT 474 - Marketing Sport Experiences**
Theory and application relevant to marketing sports experiences. Focuses on marketing strategy and tactics that maximize experiential value of sports to consumers, corporate sponsors, and team franchise equity. Course requires formulation of an original experiential oriented sports marketing plan.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301 or TCA 380. The maximum number of attempts for this course is three.

**MKT 475 - Marketing the Entertainment Experience**
Framework for marketing of entertainment experiences. Focuses on the experiential nature of entertainment products, marketing issues and trends in entertainment industries including television, film, music, gaming, and theater, and marketing strategy and tactics for entertainment products. Course requires formulation of a marketing strategy for an entertainment product.
Credits: 3
Prerequisites: TCA 380 or MKT 301

**MKT 483 - Marketing Internship**
Supervised on-site practical, professional learning experience in marketing.
Credits: 0-3
Prerequisites: (For marketing majors only) Lee Business School major, nine hours of marketing, 3.00 GPA. Department consent required. The maximum number of attempts for this course is three.
Notes: S/F grading only.

**MKT 490* - Independent Study in Marketing**
Independent study in selected topics.
Credits: 1-3
Prerequisites: A 3.00 GPA, admissions to the major, senior standing and completion of nine credit hours of courses within the major. Minimum C grade required in each major course. The maximum number of attempts for this course is three.
May be repeated to a maximum of six credits.

**MKT 492 - Advanced Seminar in Marketing**
Selected topics, readings, and discussion of current marketing issues.
Credits: 1-3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.
MKT 494 - Experience Marketing
Basic understanding of developing, managing and enhancing experiential goods and services. Topics include: understanding and measuring the experience, design issues, management issues, wear out, and developing memorable experiences.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301. The maximum number of attempts for this course is three.

MKT 495 - Marketing Policies
Marketing analysis and decision making. Integrates knowledge acquired in other courses in marketing and related areas. Extensive use of cases and/or computer simulations.
Credits: 3
Prerequisites: Lee Business School major or Marketing minor and a minimum of C grade in MKT 301, MKT 400, senior standing, and one of the following: MKT 312, IB 425, MKT 425 with minimum C grade in each prerequisite. The maximum number of attempts for this course is three.

SCM 352 - Operations Management
Analytical aids to management decision making. Integrated approaches to decisions involving organizational policies and principles, production processes, materials, manpower, and/or equipment. Where appropriate, computer assistance utilized.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade in MGT 301 and ECON 261. The maximum number of attempts for this course is three.

SCM 473 - Supply Chain Management
Fundamentals of supply chain management including the integration of the value-adding elements of purchasing, operations, and logistics processes internally and with suppliers and customers. Related topics include supplier and customer relationship management, supply chain management in services, supply chain design, and supply chain performance measurement.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade in SCM 352. The maximum number of attempts for this course is three.

SCM 474 - Purchasing and Global Sourcing
Principles of purchasing, public procurement, contract management, and global sourcing. Topics include the purchasing process, procurement in profit and non-profit organizations, buyer-supplier relationship, price determination, purchasing services, supply law and ethics, and global sourcing.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade in SCM 352. The maximum number of attempts for this course is three.

SCM 475 - Process Management, Planning, and Control
Analysis of production and service processes in organizations to include just-in-time, total quality management, material requirements planning and enterprise resource planning systems, inventory management, scheduling, queuing, process design, and statistical process control.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade in SCM 352. The maximum number of attempts for this course is three.

SCM 477 - Logistics and Supply Chain Integration
Study of the movement and storage of raw materials, work-in-process, and finished goods throughout the global supply chain with emphasis on integrating these activities to create value for the customer.
Credits: 3
Prerequisites: Lee Business School major or Management minor and a minimum of C grade
in SCM 352. The maximum number of attempts for this course is three.

**SCM 493 - Seminar in Supply Chain Management**

Selected topics in supply chain management including the value-adding elements of purchasing, operations, and logistics processes and collaboration strategies with suppliers and customers. Related topics include supplier and customer relationship management, global supply chain issues, supply chain sustainability and supply chain performance measurement.

Credits: 3

Prerequisites: Lee Business School major or Management minor and a minimum of C grade in SCM 352. The maximum number of attempts for this course is three.

**Business Spanish Experience Minor**

Business Spanish Experience Minor – 18 credits

- IB 386 - Experiential Learning in International Business – Study Abroad
  Study Abroad (Credit for IB 386 must be based on experience in a Spanish-speaking country.)
- MKT 301 - Marketing Management
- IB 435 - Marketing to Hispanics, in the US and Globally
  or
- MKT 435 - Marketing to Hispanics, in the US and Globally
- SPAN 302 - Third-Year Spanish: Grammar and Composition
- SPAN 364 - Spanish for Marketing
  or
- SPAN 365 - Business Spanish I
  and
- three credits chosen from: any SPAN course, any IB course, ECON 190, ECON 312, ECON 358, ECON 462, ECON 463, FIN 308, MKT 480, MKT 225, MKT 425, MKT 456

Minimum C grade or higher required in each minor course. Minimum 2.0 GPA in the minor is required for graduation. If pursuing more than one business major, degree or minor, a minimum of 12 credits must be unique to the additional business majors, degrees and/or minors. A course is considered unique if it is not satisfying a requirement for another business major, degree and/or minor.

**International Business Minor**

Requirements - Total Credits: 18

**15 Hour International Business Requirements:**

- IB 425 - Global Consumer Behavior and The Consumer Experience
  or
- MKT 425 - Global Consumer Behavior and The Consumer Experience
- IB 480 - International Business
  or
- MGT 480 - International Management
- MGT 301 - Principles of Management and Organizational Behavior
- MKT 301 - Marketing Management
- IB 456 - International Marketing
  or
- MKT 456 - International Marketing

3 credits from the following list:

ECON 190, ECON 312, ECON 358, FIN 308, IB 225, IB 435, JOUR 475, MGT 475, MGT 492, MKT 380, MKT 435, HON 430 The Global Economy, SOC 429, SCM 474 or any IB course offered by the Marketing and International Business Department.

At least 12 credits used for the minor must be unique to the minor and may not be used to satisfy
requirements in the major or other degrees or minors.

Minimum C (2.0) grade required in each minor business course. Minimum 2.00 GPA required in minor.

*Note: Twelve credits must be unique to the minor

(Students who have already taken MKT 312 or IB/MKT 325 may substitute that course for IB 425)

**Marketing Minor**

Requirements - Total Credits: 18

- MKT 301 - Marketing Management and
- five, three-credit upper-division (300- or 400-level) MKT electives
College of Education

Purpose and Focus
The College of Education is committed to creating an intellectual environment that promotes quality instruction, significant research, and professional service. Particular attention is focused on preparing professionals for changing educational contexts and on contributing to educational and pedagogical knowledge through scholarly endeavors. The college provides leadership in both the art and the science of educational practice. Furthermore, the college 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 the college in achieving its goals. The college encourages those who show intellectual promise, social responsibility, and the personal qualities suitable for work with children and youth to prepare for professions in teaching and human services.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Majors

Department of Early Childhood, Multilingual, and Special Education
Early Childhood Education — Bachelor of Science
Special Education — Bachelor of Arts in Education
Special Education — Bachelor of Science in Education

Department of Counselor Education School Psychology and Human Services
Human Services — Bachelor of Science

Department of Educational Psychology and Higher Education
No Undergraduate Degrees Offered

Department of Teaching and Learning
Elementary Education — Bachelor of Arts in Education
Elementary Education — Bachelor of Science in Education
Secondary Education — Bachelor of Arts in Education
Secondary Education — Bachelor of Science in Education

Undergraduate Degree Minors
Addictions Prevention
Addictions Treatment
Human Services
Problem Compulsive Gambling
Secondary Education
Special Education

Graduate Degree Programs
Educational and Clinical Studies — Master of Education in Early Childhood Education, Master of Education in English Language Learning, Master of Education in School Counseling, Master of Education in Special Education, Master of Science in Mental Health Counseling, Doctor of Philosophy in Special Education, Juris Doctor/Doctor of Philosophy in Special Education*
Teaching and Learning — Master of Education in Curriculum and Instruction, Master of Science in Curriculum and Instruction, Specialist in Education, Doctor of Education in Curriculum and Instruction, Doctor of Philosophy in Teacher Education, Doctor of Philosophy in Learning and Technology**
Educational Psychology and Higher Education - Master of Science in Educational Psychology, Master of Education in Higher Education, Education Specialist in School Psychology, Doctor or Philosophy in Educational Psychology, Doctor of Philosophy in Higher Education, Doctor of Philosophy in Learning and Technology**, Juris Doctor/Doctor of Philosophy in Educational
Psychology***, Juris Doctor/Doctor of Philosophy in Higher Education***

*Offered as a joint degree through ECS and the Boyd School of Law

**Offered as a joint degree through T&L & EPHE

***Offered as a joint degree through EPHE and Boyd School of Law

Admission to the College (Undergraduate Programs)

Minimum GPA: 2.75

Admissions Policies

Students with GPA of 2.75 can be admitted to the College of Education as pre-majors. Students are formally admitted to their major following completion of pre-major course(s) and other program requirements with a minimum overall 2.75 GPA and passing Praxis Core Tests or PPST scores taken prior to November 1, 2013. Further information may be obtained from the College of Education Advising and Field Placement Center.

College Policies

Academic Policies

A minimum UNLV cumulative GPA of 2.75 must be maintained to continue in the College of Education. Individual departments may have higher GPA requirements.

Students whose cumulative UNLV GPA falls below 2.75 will be subject to academic discipline (college probation or university suspension). Further information may be obtained from the College of Education Advising and Field Placement Center.

PRAXIS II

All undergraduate students in programs leading to teacher licensure must take the PRAXIS II and pass the appropriate test(s) in order to obtain a license with the Nevada State Department of Education. Although the PRAXIS II is not required for graduation, to ensure timely submission of the scores, students are strongly encouraged to take the test(s) one semester prior to student teaching. When completing the registration materials for the PRAXIS II, students must list UNLV (RA4861) and the Nevada State Department of Education (R8670) as score recipients. See an advisor in the College of Education Advising and Field Placement Center for more details.

Student Teaching

Student teaching is a full-time, full-semester carefully supervised experience. Through written agreements, university and school authorities are committed to providing quality field experiences for prospective teachers. An international student teaching option affords students the opportunity to explore teaching from a multicultural perspective.

Student teaching applications must be filed one semester prior to student teaching by the posted deadline. Applicants must meet all conditions specified by the appropriate academic department before they will be placed. Failure by the student teacher to meet any requirement may result in delay or cancellation of the supervised teaching assignment.

Any candidate for student teaching who has transferred to UNLV must fulfill all specific requirements and have completed at least 15 hours in residence, including nine credits in professional education courses. Additional courses as determined by the advisor or the department chair may be required of the student. Verify with departments for possible alternative degree requirements.

Scholarships

Please refer to College/Departmental Scholarships in the Student Financial Services section of this catalog.
Advisement

Advising is provided by the College of Education Advising and Field Placement Center. Students are encouraged to seek advisement early in their academic programs to ensure efficient advancement through their program. All students are encouraged to see their advisors regularly; degree requirements and/or licensure requirements may change.

Specialized Programs

In addition to its traditional programs, the college provides programs intended to meet the needs of individuals who hold baccalaureate degrees in non-licensed areas and who wish to be licensed to teach. Additional information concerning these programs is available in the Teaching and Learning and Educational and Early Childhood, Multilingual, and Special Education Department offices.

For complete information regarding individual departments, please refer to the UNLV web page, www.unlv.edu, and click on the College of Education.

COE 102 - First Year Seminar
Prepares students with skills and knowledge to promote academic success and retention. Major areas of focus include: inquiry and critical thinking skills, communication, global/multicultural awareness, intellectual and life-long learning perspectives, and citizenship and ethics. Anticipated outcomes are: connections with faculty and peers, overall college engagement, and improvement in academic skills.
Credits: 2
Notes: Satisfies First-Year Seminar Requirement.

COE 103 - First Year Seminar: Civic Engagement
Prepares students with skills and knowledge to promote academic success, retention, and civic engagement. Major areas of focus include: inquiry and critical thinking, communication, global/multicultural awareness, intellectual and life-long learning, and citizenship and ethics. Anticipated outcomes are: connections with faculty and peers, college/community engagement, and improvement in academic skills.
Credits: 3
Notes: Satisfies First-Year Seminar Requirement.

COE 202 - Second-Year Seminar
This course builds on the First Year Seminar (FYS) to prepare students with skills and knowledge to promote academic success and retention. Major areas of focus include: inquiry and critical thinking skills, communication, global/multicultural awareness, intellectual and life-long learning perspectives, and citizenship and ethics. Anticipated outcomes are: connections with faculty and peers, overall college engagement, and improvement in academic skills.
Credits: 3
Prerequisites: ENG 101 and 102 or equivalent, and First Year Seminar.
Notes: Satisfies Second-Year Seminar Requirement.

COE 303 - UNLV Transition Seminar
Prepares students with skills and knowledge to promote academic success, retention, and transition through UNLV. Major areas of focus include: inquiry and critical thinking, communication, global/multicultural awareness, intellectual and life-long learning, citizenship, and ethics. Anticipated outcomes are: connections with faculty and peers, college/community engagement, and improvement in academic skills
Credits: 3
Prerequisites: Sophomore standing and ENG 101 and ENG 102 or equivalent.
Department of Counselor Education, School Psychology, and Human Services

Purpose and Focus
The Department of Counselor Education, School Psychology, and Human Services (CSH) prepares advocates and leaders who apply theoretical, educational, and clinical models to practice and research within a variety of mental health and human service professions.

Human Services
The Bachelor of Science degree in Human Services provides students with the knowledge and skills necessary to work in a wide variety of human services settings. Drawing from the knowledge base of the social sciences, this applied program helps students develop knowledge and skill in counseling-related, therapeutic, teaching, human services, supportive and preventive methods. Students acquire knowledge of the dynamics operating within the individual, couples, families, and larger social systems and multi-cultural contexts.

Accreditation
National Council for the Accreditation of Teacher Education Northwest Commission on Colleges and Universities
Council for Accreditation of Counseling and Related Educational Programs

Undergraduate Majors
Human Services — Bachelor of Science

Admission to the Major
Minimum 2.75 GPA

Academic Policies:
Human Services - Students with a 2.75 GPA may declare Human Services as a pre-major at any time. Students are formally admitted to the program upon completion of 60 college credits; completion of CED 117, 200, 300, 315 with a grade of B or better; and a 2.75 GPA. Applications for admission are available at the College of Education Advising and Field Placement Center.

Departmental Policies
Human Services: Human Services pre-major courses (CED 117, 200, 300, 315) must be completed with a grade of B or better. The major requirements, including restricted electives, must be completed with a grade of C or better. During the senior year, students must complete a two-semester fieldwork sequence. This placement must be approved by the department fieldwork coordinator prior to beginning fieldwork. The student's grade will be determined by the fieldwork instructor with input from the fieldwork supervisor.

Transfer Policies
Any candidate for student teaching who has transferred to UNLV must fulfill all specific requirements and have completed at least 15 hours in residence, including nine credits in professional education courses. Additional courses, as determined by the advisor or the department chair, may be required of the student.

Academic Requirements
A GPA of 2.75 must be maintained for admission and to continue in the teacher education program. Those whose cumulative UNLV GPA falls below 2.75 will be placed on either college probation or college university suspension. Should the student fail to meet minimal academic standards and be suspended, a petition for readmission must be filed with the Chair of the College Subcommittee on Academic Standards and will be reviewed by the college dean.

Advisement
Upon acceptance in the college, each student is required to meet with an advisor from the College of Education Advising and Field Placement Center (895-1537). Students should meet with their
advisor prior to each semester they are taking classes. The department has developed a schedule when classes will be offered and some may not be offered every year. Meeting with an advisor will ensure the student stays on track and can graduate in a timely manner.

Human Services Major - Bachelor of Science (BS)
Please see the UNLV College of Education Human Services web page at http://education.unlv.edu/ecs/undergraduate/human_services.html for information about the program, its faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-human-services.

Please see advising information at the UNLV College of Education Advising and Field Placement Center at http://education.unlv.edu/afp/

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Objectives
1. Demonstrate knowledge of an array of theoretical and applied counseling theories.
2. Demonstrate basic counseling skills sufficient to conduct entry-level human services interventions.
3. Demonstrate an ability to form helping relationships in accordance with principles of sound counseling practice.
4. Demonstrate an ability to understand, research, and critique professional literature in counseling.
5. Deliver professional services within the guidelines of ethical and professional practice standards.
6. Demonstrate an appreciation of multicultural differences and the needs of diverse clients.
7. Demonstrate the ability to communicate orally and/or in writing with helping professionals

University Graduation Requirements
- Please see Graduation Policies for complete information

Human Services Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 37-40 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: 3

Distribution Requirements - Credits: 19
- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits
- Social Science:
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 10 Credits
  - Two courses from life and physical sciences category; at least one must have a lab
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning
Multicultural and International

(see note 1 below)

EDU 280 fulfills the multicultural requirement
International, one 3 credit course required

These courses may overlap with general education
and major requirements. A single course may not
meet the multicultural and international
requirements simultaneously. For the list of
approved multicultural and international courses,
go to: http://facultysenate.unlv.edu/students

Major Requirements - BS in Human Services - Subtotal
- 42 Credits

(see note 2 below)

- CED 117 - Interpersonal Skills in Human Services
- CED 200 - Multicultural Issues of Counseling
- CED 300 - Introduction to Human Services Counseling
- CED 310 - Relationships Across the Lifespan
- CED 315 - Counseling Skills in Human Services
- CED 320 - Drugs and Behavior
- CED 325 - Mental Health and the Human Services Profession
- CED 375 - Ethical and Professional Issues in Human Services
- CED 400 - Field Experience in Human Services I
- CED 401 - Field Experience in Human Services II
- CED 465 - Case and Resource Management in Human Services
- CRJ 301 - Research Methods in Criminal Justice
- CFT 350 - Human Sexuality

Restrictive Electives - Credits: 15

Electives - Credits: 23-25

(see note 3 below)

Total Credits: 120

Notes

1. CED 200 also fulfills the multicultural requirement of the general education core. Courses satisfying the international requirement may simultaneously fulfill another requirement.
2. A total of 42 credits must be 300/400 level courses.
3. Hours taken as part of a minor may count toward Human Services electives.

Counselor Education School
Psychology and Human Services

CED 117 - Interpersonal Skills in Human Services
Introductory survey of interpersonal skills utilized
in human relationships, with a particular focus on
counseling and other helping relationships.
Examination and analysis of interpersonal theory,
environmental, and cultural contexts for skills and
a significant skill-development component.
Credits: 3

CED 200 - Multicultural Issues of Counseling
Students obtain better understanding of
themselves in relationship to other cultural groups
within the United States. Experiential course
relying on in- and out-of-class activities. Develops
awareness and sensitivity necessary to successful
work with diverse populations in the field of
human services counseling.
Credits: 3
Notes: Satisfies the Multicultural Requirement.

CED 300 - Introduction to Human Services Counseling
Introduction to the field of human services and
counseling. Topics include various perspectives on
human services and counseling such as trends in
human service delivery, counseling theories and
practice, crisis intervention, intervention programs,
and ethical issues.
Credits: 3
Prerequisites: ENG 102.

CED 310 - Relationships Across the Lifespan
Learn the knowledge of basic relationship issues across the lifespan and how it relates to the human services professional.
Credits: 3
Prerequisites: CED 117 completed, or concurrent enrollment.

CED 315 - Counseling Skills in Human Services
Overview of basic counseling skills in the human services profession including: the history of counseling skills in human services; overview of the helping model; the therapeutic relationship in counseling; attending, listening and understanding skills; empathy; probing and summarizing; reluctant and resistant clients; decision-making skills; and goal setting.
Credits: 3
Prerequisites: CED 300.

CED 320 - Drugs and Behavior
Familiarizes the student with various classes of substances, substances' physiological effects and substances' effects on behavior.
Credits: 3
Prerequisites: ENG 102
Notes: May be repeated to a maximum of six credits.

CED 322 - Perspectives on Addictions
Critical review of the definitions/terminology used in the addictions field, major concepts relating to addictions, and model/theories used to understand addictive behavior. Emphasizes students' self-awareness of attitudes regarding addictions.
Credits: 3
Prerequisites: CED 320.

CED 323 - Prevention I: System Oriented Prevention Strategies and Programs
Orientation to prevention and thorough understanding of system-oriented prevention strategies and programs.
Credits: 3
Prerequisites: ENG 101.

CED 324 - Prevention II: Client Oriented Prevention Strategies and Programs
Provides the student with a thorough understanding of client-oriented prevention strategies.
Credits: 3
Prerequisites: CED 323.

CED 325 - Mental Health and the Human Services Profession
Students will acquire an understanding of the mental disorders experienced by individuals receiving mental health services, as well as the supports and interventions that promote greater mental health and well-being, as related to the Human Services profession.
Credits: 3
Prerequisites: CED 300, CED 315.

CED 375 - Ethical and Professional Issues in Human Services
Ethical, legal, and professional issues related to human services. Provides a basis for making professional decisions related to these issues. Codes of Ethics, state statutes, and case law related to human services.
Credits: 3
Corequisites: CED 400
Prerequisites: CED 300, CED 315.

CED 400 - Field Experience in Human Services I
Provides students with supervised work experience in human services agencies. Students participate in a weekly class that combines the principles of small group dynamics with acquired skills, knowledge and experience that students have obtained from their field experience.
CED 401 - Field Experience in Human Services II
Continuation of supervised field placement, following Field Experience I. Provides students with further supervised work experience in human services agencies.
Credits: 3
Prerequisites: CED 325, CED 375, CED 400, CFT 350.

CED 408 - Counseling the Older Adult
Overview of issues that may be encountered while counseling the older adult. Reviews basic 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. The course also reviews careers in aging focusing on gero-counseling.
Credits: 3
Prerequisites: CED 117
Notes: This course is crosslisted with CED 608.
Credit at the 600-level requires additional work.

CED 410 - Eating Disorders: Etiology and Treatment
Designed as a comprehensive review of eating disorders, correlated issues, and treatment interventions. Cultural, familial, societal, and personal factors that may contribute to the development and maintenance of eating disorders. Variety of prevention and intervention strategies explored.
Credits: 3
Prerequisites: One of the following courses: CED 320, PBH 430, NUTR 370.
Notes: This course is crosslisted with CED 610.
Credit at the 600-level requires additional work.

CED 420 - Identification, Assessment, and Treatment of the Process Addictions
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 the history, philosophy, and trends of addiction counseling. In addition, current literature outlining theories, approaches, effective strategies, and techniques will be explored.
Credits: 3
Prerequisites: CED 320.
Notes: This course is crosslisted with CED 620.
Credit at the 600-level requires additional work.

CED 425 - Perspectives in Multicultural Counseling
Focuses on developing awareness, knowledge, and skills in working with culturally different individuals and groups. Substantial attention given to interpersonal issues, concerns related to different cultures, and programming in a variety of settings.
Credits: 3
Prerequisites: CED 300, CED 315.

CED 427 - Clinical Principles and Processes in Addictions
Provides students with knowledge of how to identify and assess individuals with addictions. Epidemiological, pathological, physiological, psychological, and cultural basis of addictions across the lifespan are examined. Includes assessment/screening tools, motivational interviewing, the family system, enabling, and resource and referral systems.
Credits: 3
Prerequisites: CED 320.

CED 430 - Advanced Professional Issues in Addictions
Professional issues involved in addictions counseling. Topics include: stress and burnout, legal and ethical issues, drugs in the workplace, ethnographic attitudes toward addictions, and the economic and health issues associated with addictions.
CED 439 - Gambling Disorder Counseling
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.
Credits: 3
Prerequisites: ENG 101 and CED 300.
Notes: This course is crosslisted with CED 639. Credit at the 600-level requires additional work.

CED 440 - Problem Gambling Counseling II
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.
Credits: 3
Prerequisites: CED 439.
Notes: This course is crosslisted with CED 640. Credit at the 600-level requires additional work.

CED 444 - Child Centered Play Therapy in Counseling
Offers a comprehensive foundation for those interested in working with children within therapeutic settings, course focuses on the use of Virginia Axline's Play Therapy interventions, including theory, therapeutic processes and responses, stages of therapy, limit setting, therapeutic contraindications and limitations, ethical issues and diversity considerations.
Credits: 3
Prerequisites: CED 117.

CED 445 - Trauma and Addiction
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.
Credits: 3
Prerequisites: CED 320, junior or senior standing.
Notes: This course is crosslisted with CED 645. Credit at the 600-level requires additional work.

CED 446 - Combat Trauma
Overview of the trauma that is experienced by individuals involved in armed combat situations. The signs and symptoms of such involvement will be explored. Impact on families and communities will also be addressed.
Credits: 3
Prerequisites: CED 320 or Junior/Senior standing.
Notes: This course is crosslisted with CED 646. Credit at the 600-level requires additional work.

CED 450 - Treatment of Addictions
(Same as SW 475.) Covers 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, the elderly, etc.
Credits: 3
Prerequisites: CED 320.

CED 461 - Technology and the Internet in Social Science Research and Practice
Explores the role of technology in changing society, the application of technology to the field of social science research and practice, and the limitations and concerns about technology in the helping professions.
Credits: 3
Prerequisites: CED 300.
CED 465 - Case and Resource Management in Human Services
This course is an advanced theory and application course that integrates client case management techniques into the larger social/administrative environments of the workplace and the community. The role of the case specialist as planner, evaluator, manager, budget supervisor, and advocate will be examined from both the micro (client) and macro (organizational) perspective.
Credits: 3
Prerequisites: CED 117, 200, 300 and 315.

CED 475 - Prevention Strategies and Development Theories in Addictions
Provides in-depth review of alcohol/drug prevention strategies, successful prevention programs, prevention addressing the individual, family, peers, school, and community, and the relationship between developmental theories and successful prevention program strategies.
Credits: 3
Prerequisites: CED 320.

CED 480 - Independent Study
Individual reading projects under the direction of a faculty member.
Credits: 1-6
Prerequisites: CED 300, CED 315.
Notes: Department approval must be obtained prior to registration.
May be repeated up to a maximum of six credits

Human Services Minor
The Human Services minor provides broad training in understanding human behavior and in interpersonal and helping skills to provide services in a wide array of contexts.

Required Courses - Total Credits: 21
- CED 300 - Introduction to Human Services Counseling
- CED 315 - Counseling Skills in Human Services

and a choice of five courses from the following:
- CED 320 - Drugs and Behavior
- CED 325 - Mental Health and the Human Services Profession
- CED 425 - Perspectives in Multicultural Counseling
- CFT 350 - Human Sexuality
- CFT 360 - Contemporary Marriage and Families
Department of Early Childhood, Multilingual, and Special Education

Purpose and Focus

Early Childhood Education
The Bachelor of Science in Ed provides a comprehensive contemporary program of teacher preparation for early childhood settings (e.g., daycare, preschool education, PreK-2nd grade, agencies, infant/toddler education, hospitals, community education programs and early intention programs). The program is designed to provide skills, content and application knowledge to assist students in becoming leaders in the field of early childhood education.

Special Education
The Bachelor of Science degree in Human Services provides students with general training in human services and assists with pre professional counseling skills. Drawing from the knowledge base of the social sciences, the program helps students develop a variety of therapeutic, teaching, counseling, communication, supportive, and preventive methods. Students acquire knowledge of the dynamics operating within the individual, family, and larger social systems. The program has applied emphasis that will enable the graduate to listen therapeutically; problem solve; help implement and support mental health programs; develop social skills programs; and help those who are disadvantaged, impaired, or needing to develop interpersonal skills. Graduates will be able to work in a wide range of settings that involve helping others.

Accreditation
National Council for the Accreditation of Teacher Education Northwest Commission on Colleges and Universities
Council for Accreditation of Counseling and Related Educational Programs

Undergraduate Majors
Early Childhood Education — Bachelor of Science
Special Education — Bachelor of Arts in Education
Special Education — Bachelor of Science in Education

Certification and Licensure Programs
Generalist Endorsement Certificate/Teaching License: Students will be qualified for certification by the Nevada State Department of Education to work with children in a special education resource room setting, a self-contained classroom working with students with learning disabilities, and a self-contained classroom with students with emotional and behavioral disabilities (kindergarten through 12th grade).

Early Childhood Education Certificate/Teaching License: Students will be qualified for certification by the Nevada state Department of Education to work with children birth through second grade.

Admission to the Major
Minimum 2.75 GPA

Academic Policies:
Early Childhood – All students beginning their preparation leading to the Bachelor's Degree and teaching licensure must be admitted into the Division of Teacher Education before being admitted to the department.

Special Education - All students beginning their preparation leading to the Bachelor's Degree and teaching licensure must be admitted into the Division of Teacher Education before being admitted to the department.

Departmental Policies
Teacher Division Requirements
No studies beyond EDU 203, EDSP 441, and EDSP 401 will be permitted within the College of Education until the student has met all Teacher Division requirements below:
1. Completion of 24 credit hours at UNLV at time of
application.
2. Grade point average of 2.75 or above.
3. Students must take and pass all three parts of
   the Pre-Professional Skills
   Test (PPST).

Additional requirements include:
1. Students must earn a B or better in EDSP 481 to
   continue to take course work in
   the department. Students may repeat this course
   one time. If the student does
   not achieve a B or better the second time, the
   student will not be allowed to
   proceed forward in the department.
2. Students must earn a B or better in EDSP 488,
   EDSP 487, and EDSP 466 to be
   advanced to student teaching.

Transfer Policies
Any candidate for student teaching who has
transferred to UNLV must fulfill all specific
requirements and have completed at least 15
hours in residence, including nine credits in
professional education courses. Additional courses,
as determined by the advisor or the department
chair, may be required of the student.

Department Requirements for Early Childhood
Majors:
The following requirements must have been met
before a student will be assigned to student teach:
1. Applications for student teaching must be filed
   by specific deadline date no later
   than one semester preceding students
   teaching. See the College of Education Advising
   and Field Placement Center for details.
2. Formal admission to the department and
   successful completion of the PPST.
3. Completion of all baccalaureate course work
   with a GPA of 2.75 or higher in all courses.

Academic Requirements
A GPA of 2.75 must be maintained for admission
and to continue in the teacher education program.
Those whose cumulative UNLV GPA falls below
2.75 will be placed on either college probation or
college university suspension. Should the student
fail to meet minimal academic standards and be
suspended, a petition for readmission must be filed
with the Chair of the College Subcommittee on
Academic Standards and will be reviewed by the
college dean.

Advisement
Upon acceptance in the college, each student is
required to meet with an advisor from the College
of Education Advising and Field Placement Center
(895-1537). Students should meet with their
advisor prior to each semester they are taking
classes. The department has developed a schedule
when classes will be offered and some may not be
offered every year. Meeting with an advisor will
ensure the student stays on track and can graduate
in a timely manner.

Early Childhood Education Major-
Bachelor of Science (BS)
Please see the UNLV College of Education web
page at http://education.unlv.edu/ for information
about department programs, faculty and
facilities. Degree worksheets and 4/5-year plan for
the major are available
at https://www.unlv.edu/degree/bs-early-
childhood-education-licensure-nonlicensure.
Please see advising information at the UNLV College of Education Advising and Field Placement Center at http://education.unlv.edu/afp/

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Objectives
1. The Early Childhood Education graduate is learning about the central concepts, tools of inquiry, and structures of the discipline(s) and is learning to create learning experiences that make these aspects of content meaningful.
2. The Early Childhood Education graduate is learning about how individuals learn and how to develop and provide opportunities that support intellectual, career, social, and personal development.
3. The Early Childhood Education graduate is learning about how individuals differ in their approaches to learning and how to create opportunities that are equitable and adaptable to the needs of diverse learners.
4. The Early Childhood Education graduate is learning about planning processes based upon knowledge of content, learner’s characteristics, the community, and curriculum goals and standards.
5. The Early Childhood Education graduate is learning about how to employ a variety of strategies and methods and encourages the development of critical thinking, problem solving, decision-making, and performance skills.
6. The Early Childhood Education graduate is learning about individual and group motivation and behavior and how to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.

University Graduation Requirements
- Please see Graduation Policies for complete information

Early Childhood Education Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 37-40 credits
First-Year Seminar - Credits: 2-3
English Composition - Credits: 6
    - ENG 101 - Composition I
    - ENG 102 - Composition II
Second-Year Seminar - Credits: 3
Constitutions - Credits: 4-6
Mathematics - Credits: 3
Distribution Requirement - Credits:19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  o Two courses 3 credits each from two different humanities areas - 6 credits
  o One course in fine arts- 3 credits
- Social Science:
  o Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 10 Credits
  o Two courses from life and physical sciences category; at least one must have a lab
  o Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International
Multicultural requirement - EDU 280
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BS in Early Childhood Education
- Subtotal: 67-71

ECE Core - Credits: 58-62
(see note 3 below)
- ECE 250 - Orientation to Early Childhood Education
- ECE 251 - Curriculum in Early Childhood Education
- ECE 252 - Infant/Toddler Curriculum
- ECE 299 - Practicum for Infants/Toddlers
- ECE 431 - Teaching Communications Skills to Young Children
- ECE 441 - Play Theory, Creativity, and Aesthetics in Early Childhood Education
- ECE 453 - Methods for Early Childhood Education I: Social Sciences
- ECE 454 - Methods in Early Childhood Education II: Math and Science
- ECE 456 - Positive Discipline in Early Childhood Programs
- ECE 457 - Working with Families in Early Childhood Education
- ECE 483 - Pre-Student Teaching in Early Childhood Education
- ECE 491 - Student Teaching in Early Childhood Education
- ECE 492 - Student Teaching Seminar in Early Childhood Education
- EDRL 401 - Children’s Literature Elementary School Curriculum
- EDSP 471 - Introduction to Early Childhood Special Education
- EDSP 473 - Developmental Assessment in Early Childhood Special Education
- EDSP 474 - Curriculum Development in Early Childhood Special Education
- EDSP 475 - Strategies for Teaching Young Children with Disabilities

Optional Elective
- EDSP 423 - Collaboration and Consultation in Special Education

Education Core Requirements - Credits: 9
- EPY 303 - Educational Psychology
- EDU 214E - Preparing Teachers to Use Technology
- EDU 280 - Valuing Cultural Diversity

Electives - Credits: 4-16

Total Credits: 120

ECE Core (Administrative/Non-Licensure Track) - Credits: 57-60
(see note 4 below)
- ECE 250 - Orientation to Early Childhood Education
- ECE 251 - Curriculum in Early Childhood Education
- ECE 252 - Infant/Toddler Curriculum
- ECE 299 - Practicum for Infants/Toddlers
- ECE 431 - Teaching Communications Skills to Young Children
- ECE 441 - Play Theory, Creativity, and Aesthetics in Early Childhood Education
- ECE 453 - Methods for Early Childhood Education I: Social Sciences
- ECE 454 - Methods in Early Childhood Education II: Math and Science
- ECE 456 - Positive Discipline in Early Childhood Programs
- ECE 457 - Working with Families in Early Childhood Education
- ECE 461 - Early Childhood Education Management
- ECE 481 - Internship in Early Childhood Education Management/Administration
- ECE 482 - Preschool Fieldwork in Early Childhood Education
- EDSP 471 - Introduction to Early Childhood Special Education
- EDSP 473 - Developmental Assessment in Early Childhood Special Education
- EDSP 474 - Curriculum Development in Early Childhood Special Education
EDSP 475 - Strategies for Teaching Young Children with Disabilities
EDRL 401 - Children's Literature Elementary School Curriculum

Optional Elective
- EDSP 423 - Collaboration and Consultation in Special Education

Electives - Total Credits: 11-17

Total Credits: 120

Notes
1. A candidate for the Bachelor of Science degree in Education must earn a minimum of 120 semester hours with 40 credits in upper-division courses.
2. A minimum GPA of 2.75 for all courses attempted must be maintained.
3. ECE 491 and ECE 492 can be repeated up to 12 credits.
4. ECE 481 and ECE 482 can be repeated up to 12 credits.

Early Childhood Multilingual and Special Education

ECE 250 - Orientation to Early Childhood Education
Introduction to early childhood education, emphasizing the development needs of young children ages 3 to 8.
Credits: 3

ECE 251 - Curriculum in Early Childhood Education
Study of the learning principles, curriculum, and methods which early childhood education programs provide for young children. Emphasis on current trends, issues, and the developmental theories of early learning experiences.
Credits: 3
Prerequisites: ECE 250

ECE 299 - Practicum for Infants/Toddlers
Six-hour per week supervised teaching experience with infants and toddlers. Includes program planning, implementing early education, infant/toddler guidance, and working with families.
Credits: 3
Corequisites: ECE 251 or ECE 252 and ECEBS major;
Prerequisites: ECE 250

ECE 421 - Teaching Communications Skills to Young Children
Current theories of language acquisition. Methods for developing listening skills and oral language with a focus on early literacy.
Credits: 3
Prerequisites: ECE 250 and ECEBS major

ECE 431 - Play Theory, Creativity, and Aesthetics in Early Childhood Education
Current theories of play interpretation, examination of the nature of creative expression, and use of materials and activities to support the aesthetic domain of young children.
Credits: 3
Prerequisites: ECE 250 and ECEBS major.

ECE 453 - Methods for Early Childhood Education I: Social Sciences
Review of philosophical backgrounds of the Early Childhood Education movement: growth, development, and learning patterns of children 3-7 years old. Strategies for teaching young children, evaluation, and reporting of pupil growth to parents.
ECE 454 - Methods in Early Childhood Education II: Math and Science
Examination of curriculum areas (e.g. math, science, nutrition, and safety) and planning, implementation, and evaluation of activities. Emphasis on developmentally appropriate materials and learning experiences, and working with special populations within the parameters of the curriculum.
Credits: 3
Prerequisites: ECE 250 and ECEBS major.

ECE 456 - Positive Discipline in Early Childhood Programs
This course will explore current research and approaches in managing and guiding young children's behavior in early childhood programs. Guidance and discipline is considered within a framework of child development and developmentally appropriate practice. Methods including theoretical approaches, respecting diversity, understanding vulnerabilities, and analysis of discipline problems will be covered.
Credits: 3
Prerequisites: ECE 250 and ECEBS major.

ECE 457 - Working with Families in Early Childhood Education
The purpose of this course is to provide theory, principles, and procedures for fostering collaborative partnerships with families of young children, with a focus on empowerment of families, and professionals. Course content focuses on historical and legal foundations, contemporary frameworks, effective communication methods, and consideration of a variety of contemporary issues affecting family–professional partnerships. In addition, examination of cultural and other types of diversity between families and professionals will be emphasized. These issues will be presented within a framework of school, community, and society perspectives.
Credits: 3
Prerequisites: ECE 250 and ECEBS major.

ECE 461 - Early Childhood Education Management
Examination of managerial principles, skills, knowledge, and philosophy required of administrators of early childhood programs. Also investigates basic principles involved in establishing and operating centers for the young child.
Credits: 3
Prerequisites: ECE 250, ECE 251, ECE 252, ECE 299.

ECE 481 - Internship in Early Childhood Education Management/Administration
Twenty-hour per week supervised administrative experience in an early childhood setting. Includes program evaluation, staff evaluation, staff development, developing communication systems, assessing curriculum needs and supervising staff.
Credits: 3
Prerequisites: ECE 250 and ECEBS Non-Licensure/Administrative sub plan.

ECE 482 - Preschool Fieldwork in Early Childhood Education
Full-time supervised teaching experience with preschoolers. Experience includes program planning, implementing early education, preschool guidance, and working with families.
Credits: 6
Prerequisites: ECE 250 and ECEBS Non-Licensure/Administrative sub plan.

ECE 483 - Pre-Student Teaching in Early Childhood Education
Ten-hour per week supervised teaching experience with preschoolers. Experience includes program planning, implementing early education, preschool guidance, and working with families.
Credits: 3
Prerequisites: ECE 250 and ECEBS Prek-2 Sub plan.
ECE 491 - Student Teaching in Early Childhood Education
Full-time supervised teaching experience with young children completed in two separate settings: one setting must be with children birth to 5 years of age (infant/toddler, preschool, or kindergarten setting); one setting must be with children 6 to 8 years of age (first- or second-grade setting).
Credits: 8-12
Corequisites: ECE 492.
Prerequisites: ECE 483.

ECE 492 - Student Teaching Seminar in Early Childhood Education
Application of specific curricular learning and procedures designed to facilitate the task of the student teacher.
Credits: 2
Corequisites: ECE 491
Prerequisites: ECE 483

Special Education Major - Bachelor of Arts in Education
The requirements for the Bachelor of Arts in Education degree are identical to the requirements for the Bachelor of Science in Education degree with the exception that for the B.A., students must successfully complete two courses in the same foreign language.

Special Education Major - Bachelor of Science in Education
Please see the UNLV Department of Early Childhood, Multilingual, and Special Education web page at education.unlv.edu/ecs/ for more information about department programs, faculty, and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-special-education.

Please see advising information at the UNLV Advising & Field Placement Center at education.unlv.edu/afp

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Knowledge of the central concepts, tools of inquiry, and structures of the discipline as well as the creation of learning experiences that make these aspects of content meaningful. [CEC Philosophical, Historical, and Legal Foundations of Special Education; INTASC Content Knowledge]
2. Knowledge of how individuals learn and how to develop and provide opportunities that support intellectual, career, social, and personal development. [CEC Characteristics of Learners; INTASC Individual Development]
3. Knowledge of how individuals differ in their approaches to learning and how to
create opportunities that are equitable and adaptable to the needs of diverse learners. [CEC Characteristics of Learners; INTASC Diverse Learners]

4. Knowledge of the planning processes based upon knowledge of content, learner’s characteristics, the community, and curriculum goals and standards. [CEC Instructional Content and Practice; INTASC Planning Process]

5. Knowledge of employing a variety of methods while developing critical thinking, problem solving, decision-making, and performance skills. [CEC Instructional Content and Practice. Managing Student Behavior and Social Interaction Skills; INTASC Strategies and Methods]]

6. Knowledge of individual and group motivation and behavior and the creation of learning environments that encourage positive social interaction, active engagement in learning, and self-motivation. [CEC Planning and Managing the Teaching and Learning Environment; INTASC Learning Environments]

7. Knowledge of effective verbal, nonverbal, and media communication techniques and other forms of symbolic representation and how to foster active inquiry, collaboration, and supporting interactions. [CEC Planning and Managing the Teaching and Learning Environment; INTASC Communication]

8. Knowledge about formal and informal assessment strategies and evaluation of the learner’s continuous intellectual, social, and physical development. [CEC Assessment, Diagnosis, and Evaluation; INTASC Assessments]]

9. Knowledge of ethical relationships with parents, school colleagues, and organizations in the larger community to support the individual's learning development. [CEC Planning and Managing the Teaching and Learning Environment; INTASC Collaboration, Ethics, and Relationships]

10. Becoming a reflective practitioner who continually evaluates the effects of choices and actions on students, adults, parents, and other professionals in the learning community, and who actively seeks opportunities to grow professionally. [CEC Professionalism and Ethical Practices; INTASC Reflection and Professional Development]

The Department of Educational and Clinical Studies’ philosophy includes a rich understanding of the unique needs of children and adults with disabilities/gifts and talents as well as typically developing young children and their impact on families, communities, and society. Each program has a set of principles by which they make programmatic and curricula decisions. These principles are aligned with COE/INTASC Standards, CEC Standards, and NCATE Unit Standards and include the understanding of:

- The central concepts, tools of inquiry, and structures of their discipline to create learning experiences that makes content meaningful.
- Individual development
- How individuals differ in their approaches to learning and how culture, disability, and/or learning opportunities impact students and their families
- The individuals planning process and how learner characteristics impact planning
- A variety of teaching and learning strategies that improve personal problem solving, decision making, and critical thinking
- Learning environments that encourage positive social interaction, active engagement in learning and self-motivation
- Effective communication strategies that foster active inquiry, collaboration, and supporting interactions
University Graduation Requirements
- Please see Graduation Policies for complete information

Special Education Degree Requirements - Total: 120 Credits
(see notes 1 and 2 below)

General Education Requirements - Subtotal: 37-40

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: 3

Distribution Requirement - Credits: 19

Please see Distribution Requirements for more information.
- **Humanities and Fine Arts: 9 credits**
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- **Social Science**
  - Automatically satisfied by Major requirement
- **Life and Physical Sciences and Analytical Thinking - 10 credits**
  - Two courses from life and physical sciences category; at least one must be a lab.
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Degree Requirements - BSEd in Special Education - Subtotal: 80 credits

Education Core Requirements - Credits: 9
- EPY 303 - Educational Psychology
- EDU 214E - Preparing Teachers to Use Technology or
- EDU 214S - Preparing Teachers to Use Technology
- EDU 280 - Valuing Cultural Diversity (see note 3 below)

Licensure Methods - Credits: 9
- EDRL 437 - Teaching Reading
- EDSP 461 - Oral and Written Language Instruction for Students with Disabilities
- EDSP 462 - Math Methods for Students with Mild Disabilities

Special Education Generalist Core - Credits: 62
- EDU 203 - Introduction to Special Education
- EDSP 441 - Characteristics and Inclusive Strategies for Students with Mild/Moderate Disabilities
- EDSP 431 - Legal Aspects of Special Education
- EDSP 481 - Practicum in a Resource Room
- EDSP 442 - Curriculum Planning for English Language Learners with Diverse Needs
- EDSP 415 - Second Language Pedagogy for Students in Inclusive Settings
- EDSP 423 - Collaboration and Consultation in Special Education
• EDSP 451 - Assessment of Diverse Learners with Disabilities in Inclusive Settings
• EDSP 453 - Behavior Management Techniques for Students with Disabilities
• EDSP 464 - Strategies for Students with Disabilities
• EDSP 465 - Student Growth Models and Data-Based Instructional Decision Making
• EDSP 487 - Pre-Student Teaching
• EDSP 488 - Pre-Student Teaching Seminar
• EDSP 432 - Parent Involvement and Family Engagement for Students with/without Disabilities
• EDSP 466 - Group Teaching Methods for Students with Disabilities
• EDSP 491 - Student Teaching in Special Education (see note 4 below)
• EDSP 411 - Students with Disabilities in General Education Settings
• EDSP 412 - Foundations of Motor Skills
• EDSP 413 - Introduction to Adapted Physical Education
• EDSP 414 - Career Education for Students with Disabilities
• EDSP 432 - Parent Involvement and Family Engagement for Students with/without Disabilities
• EDSP 466 - Group Teaching Methods for Students with Disabilities
• EDSP 491 - Student Teaching in Special Education (see note 4 below)
• EDSP 411 - Students with Disabilities in General Education Settings
• EDSP 412 - Foundations of Motor Skills
• EDSP 413 - Introduction to Adapted Physical Education
• EDSP 414 - Career Education for Students with Disabilities
• EDSP 432 - Parent Involvement and Family Engagement for Students with/without Disabilities
• EDSP 466 - Group Teaching Methods for Students with Disabilities
• EDSP 491 - Student Teaching in Special Education (see note 4 below)

Electives - Credits: 0-3

Total Credits: 120

Notes

1. A candidate for the Bachelor of Science degree in Education must earn a minimum of 120 semester hours with 40 credits in upper-division courses.
2. A minimum GPA of 2.75 for all courses attempted must be maintained.
3. EDU 280 also fulfills the multicultural requirement of the general education core. One 3-credit elective course in Humanities and Fine Arts electives should be chosen to satisfy the International Requirement.
4. EDSP 491 (1 credit) must be repeated for a total of 10 credits.

Special Education

EDSP 401 - Problems in Special Education
Specialized instruction in special education designed to develop in-depth understanding of a current educational problem.
Credits: 1-6
Prerequisites: Consent of instructor.

EDSP 411 - Students with Disabilities in General Education Settings
Exploration of techniques/principles commonly employed in special education and their usefulness to regular class teachers, recreation personnel, parents, and others who work with handicapped children in regular settings.
Credits: 3
Prerequisites: EDU 201 or EDU 202 or EDU 203 or ECE 250 or MUS 271

EDSP 412 - Foundations of Motor Skills
Psychological, kinesiological, and mechanical principles for understanding and applying motor activities and remedial techniques.
Credits: 4
Prerequisites: EDSP 442.

EDSP 413 - Introduction to Adapted Physical Education
( Same as PED 465.) Adapted physical education and recreational programming for the physically challenged child. Emphasis on gross and fine motor coordinative activities, fitness, and recreational activities in special education.
Credits: 3
Prerequisites: Ten credits in special education and consent of instructor.

EDSP 414 - Career Education for Students with Disabilities
( Same as EDWF 492A.) Consideration and design of career education programs for students with disabilities. Transition and adult programs discussed.
Credits: 3
Prerequisites: EDU 203.
EDSP 415 - Second Language Pedagogy for Students in Inclusive Settings
(Same as TESL 474.) Introduction to English as a Second Language (ESL) methods, strategies, and instruction, including topics for teaching and accommodating English Language Learners (ELL) with and without special needs in inclusive classrooms.
Credits: 3
Prerequisites: EDU 203, EDSP 441, EDRL 471.

EDSP 421 - Education of Students with Emotional Disturbance
Study of existing educational programs for students with emotional disabilities in public schools, day care, and community programs.
Credits: 3

EDSP 422 - Education of Students with Physical Disabilities
Study of educational programs for students with physical disabilities within the school, agency, and clinical settings.
Credits: 3

EDSP 423 - Collaboration and Consultation in Special Education
Introduction to the collaborative consultive model in special education with emphasis on the role of the special educator in the collaborative process. Practical consultive techniques emphasized.
Credits: 3
Prerequisites: EDU 203 or ECE 250.

EDSP 431 - Legal Aspects of Special Education
Analysis of federal, state, and local statutes, policies and titles which affect the funding and direction of special education programs particularly as related to the development and implementation of Individual Education Programs for students with disabilities.
Credits: 3
Prerequisites: EDU 203

EDSP 432 - Parent Involvement and Family Engagement for Students with/without Disabilities
Considerations relevant to federal mandates and appropriate to the development of individualized educational programs for exceptional children. Emphasis given to parental roles, rights and responsibilities, the employment of special teaching personnel, and external agency resources in IEP planning and implementation.
Credits: 3
Prerequisites: EDU 201 or EDU 202 or EDU 203 or ECE 250 or MUS 271

EDSP 441 - Characteristics and Inclusive Strategies for Students with Mild/Moderate Disabilities
Introduces common characteristics and educational needs of students with emotional disturbance, learning disabilities, and/or intellectual disabilities. Appropriate educational strategies discussed.
Credits: 3
Prerequisites: EDU 203

EDSP 442 - Curriculum Planning for English Language Learners with Diverse Needs
Principles of curriculum organization, development, and implementation examined relative to English Language Learners (ELLs) with and without disabilities. Connection between research, theory, and practice studied, focusing on integration of listening, speaking, reading, and writing skills in well-developed second language curriculum.
Credits: 3
Prerequisites: EDSP 415, EDU 203 and passing PPST scores.

EDSP 451 - Assessment of Diverse Learners with Disabilities in Inclusive Settings
Presentation of essential diagnostic and prescriptive strategies applicable to students with disabilities, including English language learners.
Credits: 3
Prerequisites: EDU 203 and EDSP 441 and TESL

212
471 and TESL 474
Notes: Must be taken prior to or concurrently with EDSP 487.

**EDSP 453 - Behavior Management Techniques for Students with Disabilities**
Principles of behavior management and social learning theory to aid parents and educators in improving academic and social behavior of students with and without disabilities in the classroom and home settings.
Credits: 3
Prerequisites: Ten credits in special education.

**EDSP 461 - Oral and Written Language Instruction for Students with Disabilities**
Provides specific strategies for assessing and teaching oral and written language skills to students with disabilities, with emphasis on educational needs rather than clinical classifications.
Credits: 3
Prerequisites: EDU 203.

**EDSP 462 - Math Methods for Students with Mild Disabilities**
Provision of math instruction to students with mild disabilities. Focuses on appropriate methods and interventions for teaching mathematics skills to students with mild disabilities.
Credits: 3
Prerequisites: MATH 120 or MATH 122 and MATH 123 or MATH 124 and ESPBS or ESPBA.

**EDSP 464 - Strategies for Students with Disabilities**
Practical methods and learning strategies for teaching students who are at risk for school failure. Specific training in the strategies intervention model.
Credits: 3
Prerequisites: EDU 203 and EDSP 441. Admitted to program, passing PPST scores or PRAXIS CORE.

**EDSP 465 - Student Growth Models and Data-Based Instructional Decision Making**
Students obtain skill in analyzing and utilizing commercial and teacher-made instruments and materials to identify and enhance children’s learning styles.
Credits: 3
Prerequisites: EDU 203

**EDSP 466 - Group Teaching Methods for Students with Disabilities**
Selection and application of specific curricular learning and procedures designed to facilitate the task of the student teacher.
Credits: 3
Prerequisites: ESPBS or ESPBA and EDSP 441 and EDSP 442 and EDSP 461 and EDSP 462 and EDSP 453

**EDSP 471 - Introduction to Early Childhood Special Education**
Characteristics of young handicapped children from birth to eight years; local, state and national programs; legislation; assessment and intervention strategies; curriculum; classroom management; family involvement; and coordination of community agencies.
Credits: 3
Prerequisites: ECE 250 and ECEBS major.

**EDSP 473 - Developmental Assessment in Early Childhood Special Education**
Survey of issues related to assessment of children with atypical patterns of development. Introduction to principles of unstructured and structured observations of young children with developmental delays or those at-risk for developmental delays. Issues of cultural diversity considered.
Credits: 3
Prerequisites: EDSP 471 and ECEBS major.
EDSP 474 - Curriculum Development in Early Childhood Special Education
Introduction to the various curricular approaches to the education of children birth to 8 years of age with disabilities. Focuses on materials, published guides, and descriptions of curricular methods used with young children with developmental delays or those at-risk for developmental delays.
Credits: 3
Prerequisites: EDSP 471 and ECEBS major.

EDSP 475 - Strategies for Teaching Young Children with Disabilities
Survey of strategies for teaching children with atypical patterns of development. Emphasis placed on methods that can be employed in the general education setting. Includes strategies for adapting the general curriculum and setting for young children with developmental delays. Issues of cultural diversity considered.
Credits: 3
Prerequisites: EDSP 471 and ECEBS major.

EDSP 481 - Practicum in a Resource Room
Provides supervised experience in working with students with mild disabilities in a resource room setting.
Credits: 4
Prerequisites: EDU 203; EDSP 441. Admitted to the ESPBA or ESPBS program and PPST scores or PRAXIS CORE scores.

EDSP 486 - Internship in Reading
( Same as EDRL 469.) Supervised experience in teaching reading in regular classrooms, resource rooms, and other appropriate settings. Students work five hours per week (75 hours per semester) in an assigned setting and meet one hour weekly on campus with the instructor of record.
Credits: 3
Prerequisites: EDRL 461.

EDSP 487 - Pre-Student Teaching
Introduction to practice teaching with students with disabilities.

EDSP 488 - Pre-Student Teaching Seminar
Specific curricular learning and procedures to facilitate the task of the pre-student teacher in special education.
Credits: 1
Corequisites: EDSP 466, EDSP 487.
Prerequisites: EDRL 437, EDRL 471, EDU 203, EDSP 441, EDSP 442, (or concurrent enrollment in EDSP 442) EDSP 464, EDSP 481, EDSP 415, EDSP 423, EDSP 453, EDSP 462.

EDSP 491 - Student Teaching in Special Education
Full-time supervised practice teaching with exceptional children.
Credits: 1-12
Corequisites: EDSP 492.
Prerequisites: Completion of all course work: Must have a B or better in EDSP 466 and EDSP 487.
Notes: This course is crosslisted with ESP 691. Credit at the 600-level requires additional work.

EDSP 492 - Student Teaching Seminar
Application of specific curricular learning and procedures designed to facilitate the task of the student teacher.
Credits: 2
Corequisites: EDSP 491.
Prerequisites: Must have a B or better in EDSP 466 and EDSP 487.
Notes: This course is crosslisted with ESP 692. Credit at the 600-level requires additional work.

EDSP 210 - Education of Students with Gifts and Talents
Study of educational programs for students with gifts and talents at the preschool, elementary, and secondary levels.
Credits: 3
ESP 261 - Medical Aspects of Handicapping Conditions
Study of the physiological characteristics of children and youth with disabilities, including current research in medical fields.
Credits: 3
Prerequisites: EDU 203.

Special Education Minor

Courses Include

- EDU 203 - Introduction to Special Education
- EDSP 441 - Characteristics and Inclusive Strategies for Students with Mild/Moderate Disabilities
- EDSP 431 - Legal Aspects of Special Education
- EDSP 481 - Practicum in a Resource Room
- EDSP 423 - Collaboration and Consultation in Special Education
- EDSP 453 - Behavior Management Techniques for Students with Disabilities
- EDSP 464 - Strategies for Students with Disabilities
- EDSP 432 - Parent Involvement and Family Engagement for Students with/without Disabilities
- EDSP 451 - Assessment of Diverse Learners with Disabilities in Inclusive Settings
- EDSP 466 - Group Teaching Methods for Students with Disabilities
- EDSP 491 - Student Teaching in Special Education
- EDSP 492 - Student Teaching Seminar

Problem Compulsive Gambling Minor

The Problem Compulsive Gambling minor introduces students to the essential components of problem gambling. Counseling and psychological theories and assessment tools are explored. In addition, the impact of problem gambling on families, finances, and legal issues will be examined.

Required Courses - Total Credits: 18

- CED 300 - Introduction to Human Services Counseling
- CED 320 - Drugs and Behavior
- CED 322 - Perspectives on Addictions
- CED 439 - Gambling Disorder Counseling
- CED 440 - Problem Gambling Counseling II
- CED 475 - Prevention Strategies and Development Theories in Addictions
Department of Teaching and Learning

Purpose and Focus

The Department of Teaching and Learning (T&L) 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.

Accreditation

Northwest Commission on Colleges and Universities

Academic Post-Baccalaureate Teacher Licensure Programs Administered by Teaching and Learning

Graduate Licensure Program (GLP) in Elementary Education or Secondary Education. For further information, visit tl.unlv.edu or e-mail jobita.bayuga@unlv.edu.

Undergraduate Majors

Elementary Education — Bachelor of Science in Education
Elementary Education — Bachelor of Arts in Education
Secondary Education — Bachelor of Science in Education
Secondary Education — Bachelor of Arts in Education

Secondary Education Major

Secondary education majors must select, from the fields available, a major (first) teaching field (one of the secondary education areas of concentration) in which they wish to be licensed.

For the approved areas of concentration for the first teaching field (required) and the second teaching field (optional), see the departmental listing or academic advisor.

Admission Policies

Admission to the elementary education program requires completion of the University General Education Core requirements; completion of EDU 201, EDU 214E, and EPY 303; a minimum 2.75 cumulative GPA; and passing Praxis Core Tests or PPST scores taken prior to November 1, 2013. Applications for full admission can be found in the College of Education Advising and Field Placement Center.

Admission to the secondary education program requires completion of the University General Education Core requirements, completion of EDU 202, a minimum 2.75 cumulative GPA, and passing Praxis Core Tests or PPST scores taken prior to November 1, 2013. Applications for full admission can be found in the College of Education Advising and Field Placement Center.

Advisement

Program requirements and other relevant information are available in the College of Education Advising and Field Placement Center. Students are recommended to meet with an academic advisor every semester (appointment required). It is the responsibility of every student to maintain contact with advisors as changes in departmental policies, programs or licensure requirements may occur. Students are also responsible for all information in the UNLV Undergraduate Catalog.

Department Policies

Academic Policies

Students who are not in attendance the first day of class may be administratively dropped. Any
substitution course(s) taken at another institution for a UNLV professional education course requirement must be approved on a substitution form (see the Advising and Field Placement Center).

Field Experiences

Elementary and secondary field experience courses require application, or fingerprinting, or both one semester prior to placement and daytime availability for experience in the public schools. Students will be expected to arrange their schedules accordingly. See the Advising and Field Placement Center for details.

Elementary Education (Grades K-8) Major (BSEd)

Elementary Education (Grades K-8) Major - Bachelor of Science in Education (BSED)

Please see the UNLV Department of Teaching and Learning web page at http://tl.unlv.edu/undergraduate for more information about department programs, faculty, and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-elementary-education.

Please see advising information at the UNLV College of Education Advising and Field Placement Center at http://education.unlv.edu/afp/

Accreditation

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Program -

Learning Outcomes

1. Plan learning experiences based on assessment analysis, content knowledge, curriculum standards, and digital tools to meet the needs of all learners.

2. Create and manage an effective learning environment conducive to positive social interactions recognizing individual differences related to culture, learning styles, levels of achievement and experiences.

3. Model professional dispositions as a foundation for professional practice and demonstrate ethical and collaborative advocacy for students and the teaching profession.

4. Consider students' prior knowledge in planning lessons, actively engage students in learning, make assessment an integral part of the lesson, and reflect on instruction and student achievement using assessment data.

5. Use data to inform instruction, make decisions about student learning and demonstrate that teaching behaviors produce verifiable student learning and informs future practice.

6. Incorporate digital tools to engage students, document student progress, and provide a digital record of professional growth as a teacher.

University Graduation Requirements

- Please see Graduation Policies for complete information

Elementary Education (Grades K-8) Degree Requirements - Total: 120-123 Credits

Completion of all program requirements will lead to eligibility for the Bachelor of Science degree in Education. To qualify for the Bachelor of Arts in Education, students must also complete two courses in the same foreign language.

Elementary Education students must earn a C or better in each UNLV and transfer course that applies to the Elementary Education program. This includes university core as well as education course work.
All elementary professional teacher education courses for initial licensure (including MATH 122 and MATH 123) must have been completed no more than five years prior to admission to T&L.

**Student Teaching in Elementary Education Program:**
Approval for a student teaching placement is contingent upon:

1. Admission to T&L.
2. Completion of all program of study course requirements except EDEL 481, and EDEL 482, EDEL 483 or EDEL 485 with a grade point average of 2.75 or higher and no grade below C.
3. Filing of a completed T&L student teaching application by the announced deadline.
4. Recommendation of the Department of T&L.
5. Students who take EDEL 311 and do not receive a grade of "B" or better will not be able to enroll in EDEL 313. If a student does meet the "B" standard, they will be allowed to retake the course only one time; if they do not meet the standard the second time, they will be unable to complete the program.
6. Students who do not receive a grade of "B" or better in EDEL 313 will not be able to move on to EDEL 481, their internship. If a student does not meet the standard of "B" or better the second time they take EDEL 313, they will not be eligible to complete the program.

Student teaching is a full-time, full-semester experience in an elementary classroom. It involves a mandatory, on-campus orientation; observation and supervised teaching during which the student gradually assumes classroom teaching responsibilities; regularly scheduled observations and evaluations by the classroom teacher who serves as a preservice mentor teacher and by the assigned university site facilitator; and weekly student teaching seminar sessions or EDEL 405. Because student teaching is a full-time responsibility, outside employment during that time is strongly discouraged, and the student may enroll in no courses other than EDEL 481 and EDEL 482, EDEL 483, or EDEL 485 without department approval.

**General Education Requirements - Subtotal: 45-48 Credits**

**First-Year Seminar - Credits: 2-3**

**English Composition - Credits: 6**
- ENG 101 - Composition I
- ENG 102 - Composition II

**Second-Year Seminar - Credits: 3**
- COE 202 - Second-Year Seminar

**Constitutions - Credits: 4-6**
- HIST 100 or PSC 101 (US & NV)
- or
- HIST 100, 106 or URST 241 (US only)
- and
- HIST 102, 271 or PSC 100 (NV only)

**Mathematics - Credits: 6**
- MATH 122 - Number Concepts for Elementary School Teachers
- MATH 123 - Statistical and Geometrical Concepts for Elementary School Teachers

**Distribution Requirement - Credits: 24**

Please see Distribution Requirement for more information.

(see note 1 below)

- **Humanities and Fine Arts: 9 Credits**
  - COM 101 - Oral Communication
- One 3 credit Humanities course - History elective (HIST 217 recommended)
- One course in Fine Arts - 3 credits

- Social Science:
  - Automatically satisfied by Major requirements

- Life and Physical Sciences and Analytical Thinking: 15 Credits
  - Analytical Thinking
    - PHIL 102 - Critical Thinking and Reasoning
  - Life and Physical Sciences
    - BIOL 100 - General Biology for Non-Majors
    - GEOG 103 - Physical Geography of Earth’s Environment and GEOG 104 - Physical Geography Laboratory
    - CHEM 105 - Chemistry, Man, and Society and CHEM 106 - Beginning Chemistry Laboratory
    - or PHYS 108 - Physics for A Better Environment and PHYS 108L - Physics for a Better Environment Laboratory

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BSED in Elementary Education (Grades K-8) - Subtotal: 72 credits

Education Core Requirements - Credits: 12

Any of these courses may be taken prior to passing the PRAXIS CORE TESTS OR PRAXIS I TAKEN PRIOR TO NOVEMBER 1, 2013:
- EDU 280 - Valuing Cultural Diversity also fulfills multicultural requirement
- EPY 303 - Educational Psychology
- EPY 451 - Foundations of Educational Assessment

or, complete 3 1-credit offerings of:
- EDEL 405 - Curriculum and Assessment Elementary Education
- EDSP 411 - Students with Disabilities in General Education Settings

Elementary Program Requirements - Credits: 42

- EDU 201 - Introduction to Elementary Education
- EDU 214E - Preparing Teachers to Use Technology
- EDEL 331 - Teaching Elementary School Art or
- MUS 453 - Music Skills for Classroom Teachers
- EDEL 323 - Teaching and Learning Elementary Education
- EDEL 408 - Classroom Management Elementary Education
- EDEL 433 - Teaching Elementary School Mathematics
- EDEL 443 - Teaching Elementary School Science
- EDEL 453 - Teaching Elementary School Social Studies
- EDRL 401 - Children’s Literature Elementary School Curriculum
- EDRL 442 - Literacy Instruction I
- EDRL 443 - Literacy Instruction II: Clinic-based
- EDRL 471 - Language Acquisition, Development and Learning
- TESL 474 - Methods for English Language Learners
- PBH 424 - Teaching Elementary School Health

Field Experiences - Total Credits: 18
- EDEL 311 - Elementary Methods Practicum I
- EDEL 313 - Elementary Methods Practicum II
- EDEL 482 - Elementary Supervised Student Teaching Seminar
  and complete 10 credits of:
- EDEL 481 - Elementary Supervised Student Teaching
  or
- EDEL 483 - Elementary Supervised Teaching Internship
  or
- EDEL 485 - Elementary Supervised Teaching Residency Student

Electives - Credits: 0-3
(see note 3 below)

Total Credits: 120-123

Notes

1. Please select a Humanities or Fine Arts elective to satisfy International requirement.
2. EDEL 443 requires the following 12 credits of science as prerequisites: BIOL 100, GEOG 103, and GEOG 104, and either CHEM 105 and CHEM 106.
3. Total degree credits will be 120-123 depending upon how student fulfills the Constitutions and First Year Seminar requirements.

Secondary Education (Grades 7-12) Major (BAEd)

The requirements for each of the Bachelor of Arts in Education degrees are identical to the requirements for the Bachelor of Science in Education degrees in each of the fields with the exception that for the B.A., students must successfully complete two courses in the same foreign language.

Student Teaching in Secondary Education Program:
Applications for student teaching must be filed the semester preceding the student teaching semester. Approval for a student teaching placement is contingent upon:

1. Admission to T&L.
2. Completion of at least 90 credits toward a bachelor’s degree in secondary education with a grade point average of 2.75 or higher.
3. Completion of all professional education course requirements, with a grade point average of 2.75 or higher.
4. Completion of 75 percent of teaching field course work in which the student plans to student teach, with a grade point average of 2.75 or higher. The grade point average of 2.75 in the teaching field must be maintained through graduation.
5. Filing of a completed T&L student teaching application by the announced deadline.
6. Recommendation of the Department of Teaching & Learning.

Student teaching is a full-time, full-semester experience in a secondary classroom. It involves a mandatory, on-campus orientation; observation and supervised teaching, during which the student gradually assumes classroom teaching responsibilities; regularly scheduled observations and evaluations by the classroom teacher who serves as cooperating teacher and by the assigned university supervisor; and weekly student teaching seminar sessions. Because student teaching is a full-time responsibility, outside employment during that time is strongly discouraged, and the student may enroll in no courses other than EDSC 482 and EDSC 481, 483, or 485 without department approval.
Secondary Education (Grades 7-12) Major (BSEd)

Secondary Education (Grades 7-12) Major - Bachelor of Science in Education
Please see the UNLV Department of Teaching and Learning web page at http://tl.unlv.edu/undergraduate for more information about department programs, faculty, and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-secondary-education.

Please see advising information at the UNLV Advising & Field Placement Center at education.unlv.edu/afp

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Principle 1 (Content Knowledge): The COE graduate knows and understands the central concepts, tools of inquiry, and structures of the discipline(s) and creates learning experiences that make these aspects of content meaningful. They are passionate about their subjects and their work.
2. Principle 2 (Individual Development): The COE graduate knows and understands how individuals learn and can develop and provide opportunities that support intellectual, career, social, and personal development. They seek ways to enhance the success of their future students.
3. Principle 3 (Diverse Learners): The COE graduate knows and understands how individuals differ in their approaches to learning and creates opportunities that are equitable and adaptable to the needs of diverse learners. They demonstrate an understanding of the role that both individual and group identities play in teaching and learning. *
4. Principle 4 (Planning Processes): The COE graduate understands planning processes based upon knowledge of content, learner characteristics, the community, and curriculum goals and standards. They are active participants in the local k-12 education system.
5. Principle 5 (Strategies and Methods): The COE graduate knows and understands and can employ a variety of strategies and methods and encourages the development of critical thinking, problem solving, decision-making, and performance skills. They create lessons that promote student achievement.
6. Principle 6 (Learning Environments): The COE graduate knows and understands individual and group motivation and behavior and creates a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation. They create enriched learning environments.
7. Principle 7 (Communication): The COE graduate knows and understands effective verbal, nonverbal, and media communication techniques and other forms of symbolic representation and can foster active inquiry, collaboration, and supporting interactions. They use technology to facilitate student learning.
8. Principle 8 (Assessments): The COE graduate understands and promotes formal and informal assessment strategies and evaluates the learner's continuous intellectual, social, and physical development. They develop fair assessments of student achievement.
9. Principle 9 (Collaboration, Ethics, and Relationships): The COE graduate understands and fosters ethical relationships with parents, school colleagues, and organizations in the larger community to support the individuals...
learning development. They build communication opportunities through trust and genuine regard for student personal and academic growth.

10. Principle 10 (Reflection and Professional Development): The COE graduate is a reflective practitioner who continually evaluates the effects of choices and actions on students, adults, parents, and other professionals in the learning community, and who actively seeks opportunities to grow professionally. They respond to the rapidly changing educational context of Southern Nevada in a thoughtful manner.

University Graduation Requirements
• Please see Graduation Policies for complete information

Student Teaching in Secondary Education Program:
Applications for student teaching must be filed the semester preceding the student teaching semester. Approval for a student teaching placement is contingent upon:

1. Admission to T&L.
2. Completion of at least 90 credits toward a bachelor's degree in secondary education with a grade point average of 2.75 or higher.
3. Completion of all professional education course requirements, with a grade point average of 2.75 or higher.
4. Completion of 75% of teaching field course work in which the student plans to student teach, with a grade point average of 2.75 or higher. The grade point average of 2.75 in the teaching field must be maintained through graduation.
5. Filing of a completed T&L student teaching application by the announced deadline.
6. Recommendation of the Department of Teaching & Learning.

Student teaching is a full-time, full-semester experience in a secondary classroom. It involves a mandatory, on-campus orientation; observation and supervised teaching, during which the student gradually assumes classroom teaching responsibilities; regularly scheduled observations and evaluations by the classroom teacher who serves as a preservice mentor teacher and by the assigned university site facilitator; and weekly student teaching seminar sessions. Because student teaching is a full-time responsibility, outside employment during that time is strongly discouraged, and the student may enroll in no courses other than EDSC 482 and EDSC 481, EDSC 483, or EDSC 485 without department approval. 

(see note 1 below)

Secondary Education (Grades 7-12) Degree Requirements - Total: 120-133 Credits

Completion of all program requirements will lead to eligibility for the Bachelor of Science degree in Education. To qualify for the Bachelor of Arts in Education, students must also complete two courses in the same foreign language. Secondary education majors must select a major (first) teaching field (approved area of concentration, e.g. English or mathematics) in which they wish to be licensed. A minor (second) teaching field is optional.

General Education Requirements - Subtotal: 36-40 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

• ENG 101 - Composition I
• ENG 102 - Composition II

Second-Year Seminar - Credits: 3
Constitutions - Credits: 4-6

HIST 100 - Historical Issues and Contemporary Society or PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirements - Credits: 18-19

Dependent on Teaching Field-see notes (2 and 3 below)

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http:// facultysenate.unlv.edu/students

Major Degree Requirements - BSEd in Secondary Education - Subtotal: 84 Credits

Education Core Requirements - Credits: 9

- EDU 280 - Valuing Cultural Diversity (fulfills multicultural requirement)
- EPY 303 - Educational Psychology
- EDSP 411 - Students with Disabilities in General Education Settings

Secondary Program Requirements - Credits: 18

- EDU 202 - Introduction to Secondary Education
- EDU 214S - Preparing Teachers to Use Technology
- EDRL 451 - Content Area Literacy Instruction
- EDSC 323 - Teaching and Learning Secondary Education
- EDSC 408 - Classroom Management Secondary Education

One of the following subject method courses:

- EDSC 433 - Teaching Secondary English
- EDSC 443 - Teaching Secondary Foreign/Second Language
- EDSC 453 - Teaching Secondary Mathematics
- EDSC 463 - Teaching Secondary Science
- EDSC 473 - Teaching Secondary Social Studies
- PED 428 - Methods of Teaching Sports and Physical Activity

First Teaching Field (Required)

Approved areas of concentration - see Advising Center for a list of required courses for each area:

- Biological Science 42-45 Credits
- Earth Science 42-45 Credits
- English (Comprehensive) 48-52 Credits
- General Science 45-52 Credits
- Mathematics 39-52 credits
- Physical Science 45 Credits
- Social Studies 52 Credits
- Sports and Physical Activity 50 Credits

For music education, contact the Music Department

First Teaching Field - Credits: 39-52
All secondary education students must fulfill requirements for a first teaching field.

Field Experiences - Credits: 18

- EDSC 311 - Secondary Methods Practicum I
- EDSC 313 - Secondary Methods Practicum II
- EDSC 482 - Secondary Supervised Student Teaching Seminar taken concurrently with
- EDSC 483 - Secondary Supervised Teaching Internship
- EDSC 481 - Secondary Supervised Student Teaching or EDSC 483 - Secondary Supervised Teaching Internship or
- EDSC 485 - Secondary Supervised Teaching Residency (10 credits)

Second Teaching Field (Optional)

(see note 4 below)

Approved areas of concentration - see Advising Center for a list of required courses for each area:

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science</td>
<td>28</td>
</tr>
<tr>
<td>Earth Science</td>
<td>27</td>
</tr>
<tr>
<td>General Science</td>
<td>28</td>
</tr>
<tr>
<td>Mathematics</td>
<td>29</td>
</tr>
<tr>
<td>Physical Science</td>
<td>27</td>
</tr>
<tr>
<td>Sports and Physical Activity</td>
<td>50</td>
</tr>
</tbody>
</table>

Total Credits: 120-133

(see note 1 below)

Notes

1. Total credits depend upon student’s teaching field and choice of first year experience course.

2. Secondary Education majors pursuing the following first teaching fields fall under the Life and Physical Sciences and Analytical Thinking Distribution Area (must complete 9 credits of Social Sciences and 9 credits of Humanities & Fine Arts): Biology, Earth Science, General Science, Mathematics, Physical Science, and Sports and Physical Activity.

3. Secondary Education majors pursuing the following first teaching fields fall under the Humanities and Fine Arts Distribution Area (must complete 10 credits of Life & Physical Sciences & Analytical Thinking and 9 credits of Social Sciences): English Comprehensive.

4. Students pursuing more than one teaching field may need to take additional subject methods course(s).

Secondary Education Minor

A 2.75 GPA is required for this minor.

Courses Include - Total Credits: 32-35

- EDU 202 - Introduction to Secondary Education
- EPY 303 - Educational Psychology
- EDSC 323 - Teaching and Learning Secondary Education
- EDSC 408 - Classroom Management Secondary Education
- EDSC 433 - Teaching Secondary English or
- EDSC 463 - Teaching Secondary Science or
- EDSC 453 - Teaching Secondary Mathematics
- EDSP 411 - Students with Disabilities in General Education Settings
- EDSC 311 - Secondary Methods Practicum I
- EDSC 313 - Secondary Methods Practicum II
- EDSC 482 - Secondary Supervised Student Teaching Seminar
Elementary Global Teaching Certificate

The Certificate in Elementary Global Teaching is designed primarily to target elementary teachers who seek teaching positions in International Baccalaureate (IB) schools around the world. The Certificate in Elementary Global Teaching recognizes practical understanding of curriculum, pedagogical and assessment issues related to teaching in an IB School. The Certificate in Elementary Global Teaching prepares students with the knowledge, skills, dispositions and experiences to qualify for the IB Certificate in Teaching and Learning.

Elementary Global Teaching Certificate

Total Credits: 21 credits

Required Courses: Subtotal 9 credits

- EDEL 301 - Elem Curriculum and Foundations for Global Teaching
- EDEL 313 - Elementary Methods Practicum II
- EDEL 324 - Elementary Methods and Assessment for Global Teaching

Supervised Student Teaching: Subtotal 12 credits

- EDEL 481 - Elementary Supervised Student Teaching
- EDEL 482 - Elementary Supervised Student Teaching Seminar

Secondary Global Teaching Certificate


Secondary Global Teaching Certificate

Total Credits: 21 credits

Required Courses: Subtotal 9 credits

- EDSC 301 - Secondary Curriculum and Foundations for Global Teaching
- EDSC 313 - Secondary Methods Practicum II
- EDSC 324 - Secondary Methods and Assessment for Global Teaching

Supervised Student Teaching: Subtotal 12 credits

- EDSC 481 - Secondary Supervised Student Teaching
- EDSC 482 - Secondary Supervised Student Teaching Seminar

Secondary Teacher Certification: Chemistry

Students wishing to obtain teaching certification in chemistry should contact the College of Education Advising Center (CEB 144) for requirements.

EDEL 301 - Elem Curriculum and Foundations for Global Teaching

Introduction to the International Baccalaureate (IB) Curriculum and Professional Learning Foundations for the Elementary Programs.

Credits: 3

Prerequisites: Enrolled in UNLV and junior standing

EDEL 311 - Elementary Methods Practicum I

Elementary school practicum I where students apply content acquired in methods courses to initial field-based experiences.

Credits: 3

Corequisites: Enrollment in EDEL 323 and any of these classes EDEL 453 or EDRL 442

Prerequisites: Admission to Elementary Education Program and passing PPST or Praxis core.

May be repeated to a maximum of nine credits.
EDEL 313 - Elementary Methods Practicum II
Elementary school practicum II where students apply content acquired in methods courses to advanced field-based experiences.
Credits: 3
Corequisites: Enrollment in methods courses specified by the department.
Prerequisites: EDEL 311 with a B or better.
May be repeated to a maximum of nine credits.

EDEL 323 - Teaching and Learning Elementary Education
Current research-based practices in classroom communication skills, delivery of instruction, questioning techniques, lesson design, and behavior management.
Credits: 3
Corequisites: Enrollment in EDEL 311.
Prerequisites: Admission to Elementary Education Program.

EDEL 324 - Elementary Methods and Assessment for Global Teaching
Introduction to the International Baccalaureate (IB) teaching methods and assessments for Elementary Programs.
Credits: 3
Prerequisites: Enrolled in UNLV and junior standing

EDEL 331 - Teaching Elementary School Art
Techniques of handling art media, finger paint, clay, easel paint, chalk, and water colors.
Scheduled observations in the public schools.
Credits: 3
Prerequisites: EDU 201 or EDU 202 and PPST scores: Reading 174, Writing 172, Math 172 or PRAXIS CORE Scores: Reading 156, Writing 162, Math 150

EDEL 405 - Curriculum and Assessment Elementary Education
Introduces standards and resources of elementary school curriculum and assessment and supports students to develop, implement, and assess instructional units developed in school contexts using curriculum standards, student learning, and school resources.
Credits: 1-3
Prerequisites: EDU 280.

EDEL 408 - Classroom Management Elementary Education
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.
Credits: 3
Prerequisites: EDEL 311 and EDEL 323, Admission to Elementary Education Program.

EDEL 431 - Standards-Based Curriculum Elementary Mathematics
Elementary mathematics curriculum standards as outlined by national organizations and state agencies. Emphasis on determining expectations locally, regionally, and nationally and on teachers’ knowledge of theoretical bases of elementary school mathematics pedagogy.
Credits: 3
Prerequisites: EDU 201 and consent of instructor.

EDEL 433 - Teaching Elementary School Mathematics
Current methods and materials for teaching elementary school mathematics including review of content, objectives, curriculum, and assessment for developmentally appropriate instructional practices.
Credits: 3
Corequisites: EDEL 311 or EDEL 313
Prerequisites: MATH 122 and MATH 123, admission to Elementary Education Program, passing PPST score or passing PRAXIS core scores.

EDEL 443 - Teaching Elementary School Science
Current methods and materials for teaching life, physical, and earth sciences using process skills, guided discovery activities, and curriculum
integration techniques.
Credits: 3
Corequisites: EDEL 311 or EDEL 313
Prerequisites: BIOL 100, (PHYS 108 and PHYS 108L or CHEM 105 and CHEM 106) and (GEOG 103 and GEOG 104).

EDEL 453 - Teaching Elementary School Social Studies
Current methods and materials for teaching social studies
Credits: 3
Corequisites: EDEL 311 or EDEL 313
Prerequisites: Admission to the Elementary Education Program and and passing PPST Score or passing PRAXIS core scores.

EDEL 481 - Elementary Supervised Student Teaching
Full time teaching as a teacher candidate in an elementary school related directly to the student's program of study teaching field(s). Elementary 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 for a total of 10-16 credits.
Credits: 1-16
Prerequisites: EDEL 313 with a B or better.

EDEL 482 - Elementary Supervised Student Teaching Seminar
Elementary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel.
Credits: 2
Corequisites: EDEL 481.

EDEL 483 - Elementary Supervised Teaching Internship
Full time teaching as a teacher candidate in an elementary school related directly to the student's program of study teaching field(s). Elementary 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 for a total of 10-16 credits.
Credits: 1-16

EDEL 484 - Elementary Supervised Internship Seminar
Credits: 2
Corequisites: EDEL 483.

EDEL 485 - Elementary Supervised Teaching Residency Student
Full time teaching as a teacher candidate in an elementary school related directly to the student's program of study teaching field(s). Elementary 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 for a total of 10-16 credits.
Credits: 1-16

EDEL 486 - Elementary Supervised Residency Seminar
Elementary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel.
Credits: 2
Corequisites: EDEL 485.
EDEL 493 - Elementary Education Independent Study
Specialized instruction in elementary education designed to develop in-depth understanding of a current educational trends and issues.
Credits: 1-6
Prerequisites: Consent of instructor.
Notes: Maximum of six credits from independent study courses accepted toward a degree. May be repeated.

EDEL 495 - Elementary Education Topics:
Specialized instruction in elementary education designed to develop in-depth understanding of current educational topics.
Credits: 1-6
Prerequisites: Consent of instructor.
Notes: Maximum of six credits from education topics courses accepted toward a degree. May be repeated.

Education

EDCT 230 - Introduction to Career and Technical Education
Introduction to foundation and history of workforce education and development and its evolution. Discussion of history of work and career and technical education which includes class organization and management, advisory committees, funding and legislation, alternative learning environments and work experience.
Credits: 3
Prerequisites: Contemporary issues also discussed.

EDCT 471 - Career and Technical Student Organizations
Introduces career and technical teachers to all aspects of career and technical education youth organizations, thus providing them with a broad background for integrating these concepts and principles into their classroom instruction.
Credits: 3
Prerequisites: EDCT 230.

EDU 164 - Success in Mathematics
This course is an elective course designed to improve study skills and emphasize mathematical thinking in preparation for increasing student performance on tests such as the Praxis or ALEKS placement test.
Credits: 1

EDU 201 - Introduction to Elementary Education
Overview of teaching as a professional career for prospective elementary school teachers. Requires 25 hours of structured/guided observation and non-teaching tasks in an elementary school under the supervision of an experienced teacher and/or guided observations using videos and group on-site school observations.
Credits: 3
Prerequisites: ENG 102.

EDU 202 - Introduction to Secondary Education
Engages pre-service teacher candidates in self-assessment, examination of personal and practical models of teaching, and experiences related to complexities of contemporary secondary school. Current issues and multicultural, social, and psychological foundations emphasized. Requires up to 25 hours of field experiences and/or guided video observation.
Credits: 3
Prerequisites: ENG 102.

EDU 203 - Introduction to Special Education
Survey of the characteristics, training, and educational needs of students with disabilities and gifts and talents. Designed for undergraduate students in special education, general education, nursing, counseling, psychology, and related fields. Prerequisite to all subsequent courses in special education.
Credits: 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites/Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 210 - Nevada School Law</td>
<td>Constitutional provisions and legislative enactments regarding state and local school matters. Does not satisfy the university’s Constitutions requirement.</td>
<td></td>
<td>2</td>
<td>Sophomore standing.</td>
</tr>
<tr>
<td>EDU 210 - Nevada School Law</td>
<td>Credits: 2</td>
<td>Prerequisites: Sophomore standing.</td>
<td></td>
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</tr>
<tr>
<td>EDU 214E - Preparing Teachers to Use Technology</td>
<td>Addresses key technology hardware, software, web-based tools, and instructional practices in schools with a focus on developing teacher candidates’ knowledge, skills, and strategies for integrating information technology into the classroom. EDU 214E is for elementary; 214S is for secondary.</td>
<td>Credits: 3</td>
<td>Prerequisites: EDU 201.</td>
<td></td>
</tr>
<tr>
<td>EDU 214S - Preparing Teachers to Use Technology</td>
<td>Addresses key technology hardware, software, web-based tools, and instructional practices in schools with a focus on developing teacher candidates’ knowledge, skills, and strategies for integrating information technology into the classroom. EDU 214E is for elementary; 214S is for secondary.</td>
<td>Credits: 3</td>
<td>Prerequisites: Admission to the Elementary Education program or admission to the Early Childhood Education program, EDU 201 and passing PPST scores or passing PRAXIS core scores.</td>
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</tr>
<tr>
<td>EDU 280 - Valuing Cultural Diversity</td>
<td>Introduces pre-service educators to micro-cultures which may include class, ethnicity, gender, exceptionalities, religion, language, and age. Culturally appropriate pedagogical practices, dimensions of multicultural education, and educational implications of diversity emphasized.</td>
<td>Credits: 3</td>
<td>ENG 102. Notes: Satisfies the Multicultural Requirement.</td>
<td></td>
</tr>
<tr>
<td>EDU 401 - Literacy Survey</td>
<td>Processes involved in literacy learning and associated terminology from historical, psychological, and sociological perspectives.</td>
<td>Credits: 3</td>
<td>Prerequisites: EDU 201.</td>
<td></td>
</tr>
<tr>
<td>EDU 401 - Children’s Literature Elementary School Curriculum</td>
<td>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.</td>
<td>Credits: 3</td>
<td>Admission to the Elementary Education program or admission to the Early Childhood Education program, EDU 201 and passing PPST scores or passing PRAXIS core scores.</td>
<td></td>
</tr>
<tr>
<td>EDU 402 - Literature for Young Adults</td>
<td>Acquaintance with and critical analysis of literature and other instructional materials in all subject areas.</td>
<td>Credits: 3</td>
<td>EDU 201 or EDU 202.</td>
<td></td>
</tr>
<tr>
<td>EDU 405 - Teaching Literature Secondary Schools</td>
<td>Emphasizes current theories of teaching and learning of literature, explores integration of minority literature, examines teaching of literary genres, and promotes student-centered literature curriculum.</td>
<td>Credits: 3</td>
<td>Enrollment in a practicum. Junior standing and completion of 24 credits hours in English content.</td>
<td></td>
</tr>
<tr>
<td>EDMS 453 - Teaching Middle School Mathematics</td>
<td>Planning and teaching mathematics lessons for students in grades 5-8 consistent with NCTM’s “Standards” and the Nevada Mathematics Standard.</td>
<td>Credits: 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EDRL 411 - Teaching Language Arts Elementary Schools
Current methods and materials for teaching language arts including oral language development, speaking and listening, written expression, spelling, and handwriting.
Credits: 3
Corequisites: EDEL 311 or EDEL 313.
Prerequisites: Admission to Elementary Education Program.

EDRL 425 - Teaching Writing Secondary Schools
Emphasizes current theories of writing, explores writing processes, examines teaching of writing, and promotes process of writing themes about literature.
Credits: 3
Corequisites: Enrollment in a practicum.
Prerequisites: Junior standing, ENG 401A and ENG 411B.

EDRL 437 - Teaching Reading
Current methods and materials for teaching from kindergarten through high school. Intended for special education majors.
Credits: 3
Prerequisites: EDU 203.

EDRL 442 - Literacy Instruction I
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.
Credits: 3
Corequisites: Concurrent enrollment in a practicum. EDEL 311 or EDEL 313.
Prerequisites: Admission to Elementary Education Program.

EDRL 443 - Literacy Instruction II: Clinic-based
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.
Credits: 3
Corequisites: Concurrent enrollment in a practicum.
Prerequisites: EDRL 442 and EDEL 311 or EDEL 313.

EDRL 451 - Content Area Literacy Instruction
Strategies for developing comprehension and critical reading/writing in content areas for intermediate through high school grades.
Credits: 3
Corequisites: EDSC 323
Prerequisites: Admission to the Secondary Education Program, EDU 202 and PPST scores or passing Praxis Core Scores.

EDRL 461 - Diagnosis Assessment and Instruction Literacy
Survey of diagnostic-prescriptive techniques and materials for use with disabled readers.
Credits: 3
Prerequisites: EDRL 437.

EDRL 469 - Literacy Practicum
Supervised experience in teaching reading in either a one-on-one or small group setting. Experiences include assessment and implementation of appropriate instruction.
Credits: 3
Prerequisites: EDRL 461.
EDRL 471 - Language Acquisition, Development and Learning
Contemporary philosophies of second language acquisition, with selected topics related to language use and ideology.
Credits: 3
Prerequisites: EDU 201 or EDU 203 and passing PPST scores.

EDSC 301 - Secondary Curriculum and Foundations for Global Teaching
Introduction to the International Baccalaureate (IB) Curriculum and Professional Learning Foundations for Secondary Programs.
Credits: 3
Prerequisites: Enrolled in UNLV and junior standing.

EDSC 311 - Secondary Methods Practicum I
Supervised field experience in a secondary classroom. Students work in middle-level or high school classrooms to develop skills working with students and implementing instructional plans.
Credits: 1-3
Corequisites: EDSC 323.
Prerequisites: Admission to the Secondary Education Program, EDU 202 and PPST scores or passing Praxis Core Scores.
May be repeated to a maximum of six credits.

EDSC 313 - Secondary Methods Practicum II
Students work in a secondary classroom with a teacher to implement lessons planned in subject matter methods. Students have the opportunity, with supervision, to manage classrooms and to implement instructional plans. Course taken the semester prior to student teaching.
Credits: 1-3
Corequisites: Current enrollment with subject matter methods.
Prerequisites: EDSC 311 with a B or better.
May be repeated to a maximum of six credits.

EDSC 323 - Teaching and Learning Secondary Education
Develops prospective teachers’ understanding of and abilities in effective instructional planning and techniques. Decision making, learning principles, course strategies, planning schemes, instructional tactics, class pacing, and student evaluation investigated. Participation in micro-peer teaching required.
Credits: 3
Corequisites: EDSC 311.

EDSC 324 - Secondary Methods and Assessment for Global Teaching
Introduction to the International Baccalaureate (IB) teaching methods and assessments for the Secondary Programs.
Credits: 3

EDSC 408 - Classroom Management Secondary Education
Develops prospective teachers’ understanding of effective classroom management techniques and management programs. Students develop, examine and evaluate a teaching rationale, philosophy, management style and learning style. Topics include school and classroom climates and motivation. Students construct their management scheme and explore problem solving, effective communication and conflict resolution.
Credits: 3
Prerequisites: EDU 202, EPY 303 and admission to Secondary Education Program.

EDSC 413A - Teaching Secondary Arts: Art
Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment.
Credits: 3
EDSC 413T - Teaching Secondary Arts: Theatre
Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment.
Credits: 3
Prerequisites: EDU 202, EDSC 323, EPY 303, EPY 451.

EDSC 433 - Teaching Secondary English
Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies, and approached to assessment unique to the specialized area; curriculum; classroom organization; and use of technology.
Credits: 3
Corequisites: EDSC 313
Prerequisites: EDU 202, EDSC 323, EPY 303, EPY 451.

EDSC 443 - Teaching Secondary Foreign/Second Language
Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment.
Credits: 3
Corequisites: EDSC 313
Prerequisites: EDU 202, EDSC 323, EPY 303, EPY 451.

EDSC 453 - Teaching Secondary Mathematics
Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment.
Credits: 3
Corequisites: EDSC 311 or EDSC 313
Prerequisites: MATH 126 or higher.

EDSC 459 - Technology Applications Secondary Mathematics
Overview of computer- and calculator-based applications in secondary mathematics and science education. Topics include evaluation and selection of educational software, spreadsheets, teacher tools, graphics, telecommunications, computer-based multimedia, calculators, and calculator-based laboratories and probes.
Credits: 2
Prerequisites: EDU 202

EDSC 463 - Teaching Secondary Science
Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of technology.
Credits: 3
Corequisites: EDSC 313
Prerequisites: EDU 202, EDSC 323, EDSC 311, EPY 303

EDSC 469 - Technology Applications Secondary Science
Overview of computer- and calculator-based applications in secondary science education. Topics include evaluation and selection of educational software, spreadsheets, teacher tools, graphics, telecommunications, computer-based multimedia,
calculators, and calculator-based laboratories and probes.
Credits: 2
Prerequisites: EDU 202.

EDSC 473 - Teaching Secondary Social Studies
Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields.
Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment.
Credits: 3
Corequisites: EDSC 313
Prerequisites: EDU 202, EDSC 311, EDSC 323, EPY 303

EDSC 481 - Secondary Supervised Student Teaching
Full time teaching as a teacher candidate in a secondary school related directly to the student’s program of study teaching field(s). 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 for a total of 12-16 credits.
Credits: 1-16
Corequisites: EDSC 482.
Prerequisites: EDSC 313 with a B or better.
Notes: Letter grade only.
May be repeated.

EDSC 482 - Secondary Supervised Student Teaching Seminar
Secondary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel.
Credits: 1-3
Corequisites: EDSC 481.

EDSC 483 - Secondary Supervised Teaching Internship
Full time teaching as a teacher candidate in a secondary school related directly to the student’s program of study teaching field(s). 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 for a total of 12-16 credits.
Credits: 1-16
Corequisites: EDSC 484.
Prerequisites: See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites.
Notes: Letter grade only.
May be repeated.

EDSC 483A - Secondary Supervised Teaching Internship: Major Field
Full time teaching as a teacher candidate in a secondary school related directly to the student’s program of study teaching field(s). 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 for a total of 12-16 credits.
Credits: 1-16
Corequisites: EDSC 484.
Prerequisites: See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites.
Notes: Letter grade only.
May be repeated.
EDSC 483B - Secondary Supervised Student Teaching Internship: Minor Field
Full time teaching as a teacher candidate in a secondary school related directly to the student’s program of study teaching field(s). 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 for a total of 12-16 credits.
Credits: 1-16
Corequisites: EDSC 484.
Prerequisites: See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites.
Notes: Letter grade only.
May be repeated.

EDSC 484 - Secondary Supervised Internship Seminar
Secondary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel.
Credits: 1-3
Corequisites: EDSC 483, EDSC 483A, or EDSC 483B.

EDSC 485 - Secondary Supervised Teaching Residency
Full time teaching as a teacher candidate in a secondary school related directly to the student’s program of study teaching field(s). 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 for a total of 12-16 credits.
Credits: 1-16
Corequisites: EDSC 486.
Prerequisites: See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites.
Notes: Letter grade only.
May be repeated.

EDSC 485B - Secondary Supervised Teaching Residency: Minor Field
Full time teaching as a teacher candidate in a secondary school related directly to the student’s program of study teaching field(s). 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 for a total of 12-16 credits.
Credits: 1-16
Corequisites: EDSC 486.
Prerequisites: See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites.
Notes: Letter grade only.
May be repeated.
specific prerequisites.
Notes: Letter grade only.
May be repeated.

**EDSC 486 - Secondary Supervised Residency Seminar**
Secondary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel.
Credits: 1-3
Corequisites: EDSC 485, EDSC 485A or EDSC 485B.
Prerequisites: See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites.

**EDSC 493 - Secondary Education Independent Study**
Independent study instruction in secondary education designed to develop in-depth understanding of current educational trends and issues. Maximum of six credits from independent study courses accepted toward a degree.
Credits: 1-6
May be repeated.

**EDSC 495 - Secondary Education Topics:**
Specialized instruction in secondary education designed to develop in-depth understanding of current educational topics. Maximum of six credits from education topics courses accepted toward a degree.
Credits: 1-6
May be repeated.

**PED 307 - Evaluation of Physical Education**
Methods in evaluation of the product and process; special emphasis on physical fitness, motor ability, posture, and specific sport skills; applicable to elementary, secondary, and adult populations.
Credits: 3
Prerequisites: Minimum B grade in EDU 202.

**PED 340 - Teaching Rhythmic Activities**
Provides prospective physical educators with content knowledge and pedagogical skills needed to teach rhythmic activities in the K-12 physical education program. Emphasis on supporting development of motor skills through rhythmic activities.
Credits: 3
Prerequisites: Minimum B grade in EDU 202.

**PED 350 - Psychology of Coaching**
Provide students an overview of the psychology of coaching sport and participating in sport and exercise. Basic tenets of psychology of the individual as well as group behavior will be reviewed.
Credits: 3
Prerequisites: Minimum grade of B in EDU 202

**PED 428 - Methods of Teaching Sports and Physical Activity**
Students will learn aspects of teaching high school physical education including: characteristics of high school students, testing, grading, teaching lifetime activities, and effective teaching techniques.
Credits: 3
Corequisites: EDSC 313 Secondary Methods Practicum II
EDUC 480 - School Administration for the Pre-Service Teacher
Acquaints pre-service teachers with various organizational, legal, fiscal, and operational procedures of schools. Various behavior roles manifested by administrators and, conversely, expectations administrators may have for pre-service or newly employed teachers. Credits earned may not be utilized in programs in educational administration.
Credits: 3
Prerequisites: EDU 201, EDU 202

EDUC 490 - School Administration for the Layman and/or the Professional
Acquaints the variety of publics affected by or involved with the administration of schools.
Credits: 1-4 credits
Prerequisites: EDU 201, EDU 202
Each section may be repeated for a total of four credits. a) implications for teachers and parents, b) the public and negotiations, c) legal foundations of public schools, d) school boards and the public.
Credits earned may not be utilized on programs in educational administration.

EDUC 495 - Education Topics:
Seminar taught by various College of Education faculty members. Topics might include multicultural education, exceptional children, consultation skills for teachers, or other topics as appropriate.
Credits: 1-3
Prerequisites: EDU 201 or EDU 202.
May be repeated to a maximum of nine credits.

EDUC 498 - Special Problems in Administration and Supervision
Develops in-depth understanding of current or special problems in the areas of supervision and the administrative process.
Credits: 1-6
Prerequisites: EDU 201, EDU 202.
May be repeated to a maximum of six credits.

Teaching English as a Second Language

TESL 442 - Curriculum Planning for English Learners with Diverse Needs
Principles of curriculum organization, development, and implementation examined relative to English Language Learners (ELLs) with and without disabilities. Connection between research, theory, and practice studied, focusing on integration of listening, speaking, reading, and writing skills in well-developed second language curriculum.
Credits: 3
Prerequisites: EDSP 415, EDU 203.

TESL 471 - Language Acquisition, Development and Learning
Contemporary philosophies of second language acquisition, with selected topics related to language use and ideology.
Credits: 3

TESL 474 - Methods for English Language Learners
Introduction to English as a Second Language (ESL) methods, strategies, and instruction, including topics for teaching and accommodating English Language Learners (ELLs) with and without special needs in inclusive classrooms.
Credits: 3
Prerequisites: EDRL 471 and admission to the Elementary Education Program.
Purpose and Focus

The Department of Educational Psychology and Higher Education offers programs leading to the Master of Science in Educational Psychology, Master of Education in Higher Education, Educational Specialist in School Psychology, a Ph.D. in Learning and Technology, a Ph.D. in Higher Education, and a Ph.D. in Educational Psychology, with strands in evaluation and assessment, school psychology, and content area emphasis. The department offers numerous courses required of students obtaining both undergraduate and graduate degrees from other units within the College of Education and across campus. Persons interested in pursuing a graduate degree in educational psychology, higher education, or school psychology should contact the department chairperson at 895-3253.

Accreditation

Northwest Commission on Colleges and Universities
Council for Accreditation of Counseling and Related Educational Programs
National Association of School Psychologists

Graduate Degree Programs

Higher Education — Master of Education, Ph.D.
Educational Psychology — Master of Science, Ph.D.
in Foundations, Ph.D. in Learning & Technology
School Psychology — Educational Specialist, Ph.D.
strand in Foundations

There are no undergraduate degrees offered by this department.
awareness, intellectual and life-long learning perspectives, and citizenship and ethics. Anticipated outcomes are: connections with faculty and peers/others, and overall college engagement and improvement in academic skills. 

Credits: 3

**EPY 102 - Applied Creativity**
Provides learners with the knowledge, tools, and techniques to enhance creative applications in problem solving.
Credits: 3

**EPY 150 - Strategies for Academic Success**
Emphasis on acquisition of learning strategies and study skills for success in college courses. Topics include lecture learning and note-taking, text and reading comprehension strategies, principles of learning and memory, time management, test taking skills, basic essay construction, and motivation. Applies strategies in student-chosen, concurrently enrolled class.
Credits: 3

**EPY 250 - Strategies for Academic Success**
Emphasis on acquisition of learning strategies and study skills for success in college courses. Topics include lecture learning and note-taking, text and reading comprehension strategies, principles of learning and memory, time management, test taking skills, basic essay construction, and motivation. Applies strategies in student-chosen, concurrently enrolled class.
Credits: 3

**EPY 303 - Educational Psychology**
General principles, theories, and recent research evidence regarding human development, human learning and human motivation, especially as they pertain to classroom instruction.
Credits: 3
Prerequisites: Acceptance into COE and completion of a minimum of 33 credits.

**EPY 451 - Foundations of Educational Assessment**
Introduction to testing, measurement, and evaluation related to instructional problems, construction and use of teacher-made tests, survey of standardized tests, test interpretation, and basic statistical procedures.
Credits: 3
Prerequisites: Completion of or concurrent enrollment in EPY 303 and junior-level standing.

**EPY 452 - Counseling/Consultation Skills for Classroom Teachers**
Human relations development skills for use in the classroom setting, with emphasis on parent-school relations and parent conferences. Meets certification requirements for pre-service teachers. Section A for prospective elementary teachers; Section B for prospective secondary teachers.
Credits: 1
Prerequisites: Completion or concurrent enrollment in EPY 303.

**EPY 490 - Introduction to the Learning Sciences**
The learning sciences are concerned with designing effective learning innovations and environments. Rooted in educational psychology, cognitive science, anthropology, applied linguistics, educational technology, and computer science, this course surveys major aspects of the learning sciences, including research methodologies, learning technologies, collaborative learning, disciplinary learning, teacher learning, and policy design.
Credits: 3
Prerequisites: PSY 101 or EPY 303 and junior or higher standing.
Notes: This course is crosslisted with EPY 690. Credit at the 600-level requires additional work.
EPY 499 - Special Topics in School Counseling and Human Development Services
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.
Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

LDE 201 - Introduction to Leadership
Introduction to leadership theories, concepts, and skills. Examination of the evolution of leadership theory; exploration of a personal leadership philosophy; understanding leadership as a process rather than a position; and analyzing the interaction of identity with leadership practice.
Credits: 3

LDE 202 - Leadership and Ethics
Introduction to ethical decision-making and ethical leadership. Exploration of contemporary issues in organizations, communities, and society and the analysis of practices that encourage ethical behavior.
Credits: 3

LDE 311 - Leadership and Social Identity
Critical examination of the leadership studies field and exploration of the role that identity plays in defining, framing, studying, and enacting leadership. Exploration of identity, socialization, critical theory, critical race theory, and intersectionality. Links personal identities and leadership practice, develops the ability to critically consume and re-author leadership literature.
Credits: 3
Prerequisites: Minimum grade of C in LDE 201 and LDE 202

LDE 312 - Leadership and Relationships
Examines leadership as a relational process. Critical analysis of authentic leadership, positive psychology, conflict, mediation, and team dynamics. Explores how personal relationships shapes the leadership process, values different talents that team members contribute to the group process, and increases skill in navigating conflict.
Credits: 3
Prerequisites: Minimum grade of C in LDE 201 and LDE 202

LDE 313 - Leadership and Social Justice
Examines how the leadership process can transform systemic social issues. Exploration of social change, activism, and advocating against social injustice; critical exploration of cultural identities; interrogation of systems of power, privilege, and oppression; and commitment to social justice.
Credits: 3
Prerequisites: Minimum grade of C in LDE 201 and LDE 202
Division of Educational Outreach

Purpose and Focus

The Division of Educational Outreach mission is to extend UNLV's educational resources in support of and partnership with the community, state, region and beyond in an effort to serve learner needs and interests through innovative courses and comprehensive programs and services. Adult, senior and part-time students, military personnel, government and business employees, and learners who are unable to attend traditional campus-based credit courses and programs constitute the student populations served by the division. The division works with deans and faculty across campus to help shape university outreach to government, business, and the general public by offering high-quality credit and noncredit program offerings.

Continuing Education is the non-credit arm of the university and provides opportunities for professional development and personal enrichment through workshops, classes, travel, seminars, conferences, and custom training. Whether you want to earn a professional certification, expand your understanding of emerging technology, learn a language, explore the world, or discover your creative side, we have a class for you. Our goal is to serve the Las Vegas community with the classes you want and need.

Summer Term and Community2Campus develop academic credit programs serving emerging academic disciplines and special publics. The division also includes the Testing Services, Cannon Survey Center, Osher Lifelong Learning Institute, and Public Lands Institute.

Division Units

Vice Provost for Educational Outreach
Cannon Survey Center
Continuing Education
Community2Campus

Summer Term
Osher Lifelong Learning Institute
Public Lands Institute

Academic Programs Administered by the Division

Summer Term

Summer Term provides students an opportunity for year-round continuation of their program, supports effective continuity of graduate education and research, encourages instructional innovation and interdisciplinary experimentation by faculty by piloting new curriculum, provides early entry students and continuing students the opportunity to accelerate degree completion, and offers career development opportunities and degree advancement for teachers and other professionals. Summer Term is an integral part of learning at UNLV, spanning 13 weeks. It starts with a three-week session and is followed by two five-week sessions. Summer courses have the same academic content as the fall or spring courses, but move at a much faster pace. Many students enjoy limiting their attention to one or two topics and find that attending classes five days a week encourages them to concentrate on the subject material. For more information, visit summerterm.unlv.edu or call the Summer Term office at 702-895-3711.

Community2Campus:

Community2Campus assists UNLV academic departments throughout the year to offer academic credit courses that are self-supporting and often taught outside the traditional semester schedule. Non-traditional students returning to college can apply for scholarships through Community2Campus and take advantage of support services designed to facilitate their educational journey. Community2Campus is committed to forging partnerships within the community to deliver responsive educational opportunities. For more information, visit
edoutreach.unlv.edu/community2campus or call 702-774-4626.

**Admission Policies**

The requirements for admission to the Academic Credit Courses are the same as the requirements for admission to the University of Nevada, Las Vegas. Additional requirements may be added to gain admission to a specific program.

**Continuing Education: Non-credit and Professional Certificate Programs**

Continuing Education offers non-credit certificates in professional disciplines including human resource management, public relations, paralegal, sommelier, nonprofit management, medical assisting, fashion design, graphic design, internet design and technology, and personal fitness training. Or, try a new hobby with a personal enrichment course. We also partner with businesses, organizations, and groups to create custom training opportunities. If there is something you want to learn and we do not currently offer it, we can build it for you. Call Continuing Education at 702-895-3394 for more information or email continuing.education@unlv.edu.
Howard R. Hughes College of Engineering

Introduction
The College of Engineering offers majors in several engineering disciplines, computer science, and construction management as well as minors in engineering disciplines, technology commercialization, computer science and Reserve Officers' Training Corps (ROTC) related fields.

Engineering is a discipline that has had a direct and vital impact on people's lives throughout history. In ancient times, mankind practiced the art of engineering by creating fundamental inventions such as stone tools, the lever, and the wheel. In modern times, engineers apply innovative methods using scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. Today engineers are responsible for creations such as skyscrapers, dams, water treatment plants, automobiles, airplanes, electric power, computers, electronic communication systems, the internet and medical diagnostic tools. An engineering education provides opportunities for solving problems of great social significance and for increasing humankind's quality of life.

Since the development of the electronic computer in the 1940s, the computer science field has seen spectacular growth. Electronic computers now range from single-chip microcomputers in any number of electrical appliances, such as refrigerators and thermostats, to supercomputers which can perform thousands of trillions of operations per second. Computer Science is the study of the design of computer software and hardware as it relates to the theory of computation, algorithms and data structures, programming methodology and languages, operating systems, and computer elements and architecture. Its applications include computer system architecture, computer networks, distributed computer systems, programming languages and software systems, information and data management, artificial intelligence, computer science theory, evolutionary algorithms, and computer vision and graphics.

Construction Management is a discipline and management system specifically created to promote the successful execution of construction projects for clients. A construction manager or management team coordinates the different processes, budgets and timetables necessary to complete a major construction project. In particular, a construction manager or management team is responsible for the overall planning, coordination and control of a construction project from inception to completion while meeting a client's requirements. This includes ensuring the construction of functionally and financially viable project that will be completed on time within authorized cost and to the required quality standards.

The mission of the Howard R. Hughes College of Engineering is to serve society and the region as a center of higher learning and research by providing technology, computer science, and engineering education to technologists and engineers, some of whom will become future leaders, entrepreneurs and innovators. The College's goals are:

- To provide quality undergraduate education through nationally-accredited programs in computer science, civil engineering, computer engineering, electrical engineering, entertainment engineering and design, mechanical engineering, and construction management. Graduates of our undergraduate programs will have the
  1. Appropriate technical knowledge and skills to be technically competent in their disciplines
  2. Appropriate interpersonal skills to function professionally in their disciplines
3. Knowledge and skills to be a responsible citizen
• To provide competitive graduate and professional education in computer science, civil and environmental engineering, electrical engineering, mechanical engineering, and construction management.
• To create knowledge through research and to disseminate the results of research through publication.
• To engage in private and public service through outreach, creation, and dissemination of knowledge, or to function as a repository of knowledge.

Accreditation
Northwest Commission on Colleges and Universities, www.nwccu.org
Bachelor of Science in Construction Management accredited by the American Council for Construction Education (ACCE), http://www.acce-hq.org/

Departments, Majors, Minors and Undergraduate Degrees
College of Engineering
Entertainment Engineering & Design — Bachelor of Science
Entertainment Technology & Design — Bachelor of Science
Engineering Science — Minor
Entertainment Engineering and Design — Minor
Solar & Renewable Energy — Minor
Technology Commercialization — Minor
Unmanned Aircraft System (UAS) — Minor
Unmanned Aircraft System (UAS) — Minor

Certificate
Technology Commercialization
Unmanned Aircraft System (UAS)

Department of Aerospace Studies (Air Force Reserve Officers' Training Corps) Aerospace Studies — Minor

Department of Civil and Environmental Engineering and Construction
Civil Engineering — Bachelor of Science in Engineering

Construction Management — Bachelor of Science
• Engineering Science Option
• Management Option

Department of Computer Science
Computer Science — Bachelor of Arts
Computer Science — Bachelor of Science

Computer Science — Minor
Information Technology — Minor

Department of Electrical and Computer Engineering
Computer Engineering — Bachelor of Science in Engineering
Electrical Engineering — Bachelor of Science in Engineering

Department of Mechanical Engineering
Mechanical Engineering — Bachelor of Science in Engineering

Department of Military Science (Army Reserve Officers' Training Corps)
Military Science — Minor

Graduate Degree Programs
Aerospace Engineering — Master of Science
Biomedical Engineering — Master of Science
Civil Engineering — Master of Science in Engineering

Doctor of Philosophy in Engineering
Computer Science — Master of Science

Doctor of Philosophy
Multicultural Engineering Program

The mission of UNLV's Multicultural Program (MP) is to recruit minority and underrepresented undergraduate and graduate students into the Science, Technology, Engineering, Math (STEM) and healthcare related disciplines; foster a positive and caring learning atmosphere that supports classroom instruction and professional development; increase retention and graduation rates; and improve overall student success. The MP office provides a wide range of student support services and assistance in finding scholarships, internships, summer and part-time jobs, as well as, post graduate full-time employment within the STEM and Health Science industries.

The original MP began in 1989, as the Minority Engineering Program in response to the under-representation of American-Indians, African Americans, Latino and Hispanic Americans, and women in engineering, computer science, informatics, and construction management professions. As of 2013 we have expanded from the College of Engineering and now include the entire STEM and health science related disciplines.

Admission to the College

Admission Policies

All programs in the College of Engineering require elevated levels of mathematics preparedness. A student admitted to UNLV must meet one of the following requirements for admission to the College of Engineering:

- SAT Mathematics Score of at least 520 (pre-March 2016) or 550 (after March 2016), or
- ACT Mathematics Score of 23 or higher, or
- Grade of C or better in MATH 096, or
- Placement into MATH 126 (Precalculus) or above by the UNLV Department of Mathematical Sciences.

High school graduates are strongly advised to complete four years of English, four years of high school mathematics including AP Calculus, three years of high school science including chemistry, physics and one AP science course while in high school.

Transfer Policies

Transfer students from other universities or from other UNLV colleges must have a minimum GPA of 2.5 for admission to the College of Engineering. Transfer students with a GPA of less than 2.5 can be admitted on probationary status and must schedule an interview with the Engineering Academic Advising Center prior to entering the college. The student may be required to agree to an academic performance contract.

College Policies

Pre-major Placement

CEGPRE — Civil and Environmental Engineering
CEMPRE — Construction Management
COEPRE — Computer Engineering
CSCPRE — Computer Science
EEDPREFORENTEERINGAND DESIGN
E2GPRE — Electrical Engineering
MEGPRE — Mechanical Engineering
ECSPRE — Undecided
EGGPRB — Probation

Students in these pre-programs will be assigned an advisor by the College of Engineering Academic Advising Center. Students in these pre-programs are expected to complete courses in their majors. After a student has completed pre-engineering courses prescribed by their chosen major, the student is eligible to submit an application to the
Academic Advising Center for advanced standing in their major. Advanced standing status allows a student to take upper-division courses in the student’s major.

Credit for Transfer Courses
Transfer students from other Nevada institutions should obtain a copy of the Nevada System of Higher Education (NSHE) Course Transfer Guide to determine course equivalencies between those institutions and UNLV. Students may also visit the transfer student information page found linked from the Admissions webpage. Students can access the transfer course equivalency tables, learn about admission requirements and FAQ’s about transferring to UNLV. Transfer students must be aware that even though the Office of the Registrar & Admissions accepts courses for transfer credit, each department evaluates courses for content and level prior to acceptance toward a degree in any major. Students may be required to furnish documentation on some courses before they can be considered for acceptance as an equivalent course.

International Students
International students are required to take placement exams in English as a second language (ESL) and to enroll in the appropriate ENG or ESL courses recommended by the Director of the English Language Center.

Probation
A student may be placed on college probation if:

1. The cumulative GPA falls below 2.00.
2. The student is not taking courses toward a college degree program.
3. The student does not have credit for ENG 101 and MATH 181 or is not progressing toward these course requirements.

Suspension
A student will be placed on college suspension for one semester if on probation for two consecutive semesters.

A suspended student, whether on college or university suspension, may be readmitted to the college based on approval of the Associate Dean for Undergraduate Programs. The re-admitted student will remain on college probation and may be suspended again unless specific goals that are articulated in a contract entered into by the student and the Associate Dean for Undergraduate Programs have been achieved. All re-admitted students must make an appointment with the College of Engineering Academic Advising Center to develop contract requirements. A student on college suspension, while not eligible to take any courses in the college, may take other courses to improve academic standing and demonstrate readiness to continue a degree program within the college. Please see the University policy regarding suspension rules.

Academic Advising Center
It is the goal of the College of Engineering Academic Advising Center to assist each student in navigating the requirements of their degree while at UNLV. The advising center staff is committed to providing academic assistance to students as they fulfill their educational goals and achieve academic success, thereby enabling our graduates to enter into their chosen field within the engineering, construction management and computer science professions.

The Academic Advising Center administers the academic advising services for all college disciplines and facilitates transfer course evaluations, student applications for advanced standing status and graduation initiation. All undergraduate students are encouraged to visit the College of Engineering Academic Advising Center located in TBE A-207 and take advantage of the services and assistance provided to ensure accuracy of semester schedules, to obtain referrals to campus resources and student support services to help with academic and personal goals, and ensure a timely graduation. Additionally, students should also
review the Academic Advising Center's website for additional information (http://engineering.unlv.edu/advising/).

The Academic Advising Center schedules general advising and registration specific advising appointments each semester on a first-come, first-serve basis, however weekly open advising is also available for short questions. Students should come to the Academic Advising Center or call 702-895-2522, to make an appointment for advising with the Advisor assigned to their major. During the first week of classes, students should be prepared to submit proof that they have taken and passed all necessary prerequisite courses; and are currently registered in all corequisite courses, otherwise, they face being administratively dropped from courses in which they do not meet the necessary prerequisites and corequisites. The college may refuse to accept any course taken more than eight years prior to graduation. Students to whom this requirement might apply should consult with their academic advisor for further direction.

Entertainment Technology and Design Major (BS)

Entertainment Technology and Design Major - Bachelor of Science (BS)

Unlike engineers who creatively apply physical theory and advanced mathematics to design, manufacture, and control structures, machines, processes, and systems, engineering technologists apply creative practical and hands-on approaches to implement designs for specific applications. Entertainment engineering technology is an engineering technology that creates the highly technical designs that the entertainment industry has come to demand. Entertainment engineering involves the application of traditional engineering technology disciplines including computer, electrical, mechanical and civil engineering technology to the art of entertainment. The Bachelor of Science in Entertainment Technology and Design provides a path for students who are interested in pursuing the interdisciplinary fusion of engineering and the fine arts that will allow them to succeed in the entertainment industry. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-entertainment-engineering-design-designtech.

Please see the UNLV Entertainment Technology and Design department web page at www.eed.egr.unlv.edu/ for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV College of Engineering Advising Center at http://engineering.unlv.edu/advising/

Accreditation

Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program Objectives
The educational objectives of the Bachelor of Science in Entertainment Technology and Design is to educate students so that they can work in the design, production, installation, and operation of entertainment devices, systems, and venues.

Program Goals
To achieve these objectives, the Entertainment Technology and Design program’s goals are for the graduate to possess:

1. Appropriate technical knowledge and skills
2. Appropriate fine art knowledge and skills
3. Appropriate interpersonal skills
4. The knowledge and skills to be a responsible citizen

Program Outcomes
To achieve these objectives and goals, each student of the Entertainment Engineering Technology and Design program will attain the following outcomes before graduation:

1. Appropriate technical knowledge and skills
   1.1. an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies
   1.2. an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities
   1.3. an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
   1.4. an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes

d. Appropriate fine art knowledge and skills
   2.1. knowledge and comprehension of entertainment design principles and concepts
   2.2. an ability to use technology to communicate through art
   2.3. an ability to express visual concepts and ideas in a creative manner at a professional level
   2.4. an ability to demonstrate appropriate technical knowledge and skills of various artistic mediums

3. Appropriate interpersonal skills
   3.1. an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature
   3.2. an ability to function effectively as a member or leader on a technical team

4. The knowledge and skills to be a responsible citizen
   4.1. an understanding of the need for and an ability to engage in self-directed continuing professional development
   4.2. an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
   4.3. a knowledge of the impact of engineering technology solutions in a societal and global context
   4.4. a commitment to quality, timeliness, and continuous improvement

University Graduation Requirements
- Please see Graduation Policies for complete information
Entertainment Technology and Design Degree Requirements - Total: 120 Credits

(see notes 1-5 below)

General Education Requirements - Subtotal: 31-34 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
  • ENG 101 - Composition I
  • ENG 102 - Composition II

Second-Year Seminar - Credits: 3
  • PHIL 242 - Ethics for Engineers and Scientists (See note 5)

Constitutions - Credits: 4-6
  • HIST 100 - Historical Issues and Contemporary Society
  • PSC 101 - Introduction to American Politics

  Or the combination of:

  US Constitution
  • HIST 101 - United States: Colonial Period to 1877

  NV Constitution
  • PSC 100 - Nevada Constitution

Mathematics - Credits: 4
  • MATH 181 - Calculus I

Distribution Requirement - Credits: 15

Please see Distribution Requirements for more information.
  • Humanities and Fine Arts: 6 credits

Social Science: 9 credits
  • CEE 307 - Engineering Economics
  • One social science elective course chosen to satisfy the Multicultural Requirement (see note 4 below)

Life and Physical Sciences and Analytical Thinking:
  • Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

(see note 3 and 4)

Major Requirements - BS in Entertainment Technology and Design Subtotal: 89 Credits

Specific courses required:

Required Mathematics - Credits: 7
  • MATH 182 - Calculus II
  • STAT 152 - Introduction to Statistics

Required Natural Science Courses - Credits: 8
  • PHYS 151 - General Physics I / PHYS 151A
  • PHYS 151L - General Physics I Lab
  • PHYS 152 - General Physics II / PHYS 152A
  • PHYS 152L - General Physics II Lab
- PHYS 152L - General Physics II / PHYS 152L General Physics II Lab

Required Mathematics/Science Elective Courses - Credits: 6

Choose from the approved list of math/science courses.

Required Seminars - Credits: 4

- EED 100 - Entertainment Engineering and Design Seminar I
- EED 200 - Entertainment Engineering and Design Seminar II
- EED 300 - Entertainment Engineering and Design Seminar III
- EED 400 - Entertainment Engineering and Design Seminar IV

Entertainment Design Fundamental Courses - Total Credits: 30

**Required Entertainment Design Courses - Credits: 15**
- EED 110 - Material Science and Fabrication Techniques
- EED 111 - Basic Kinetic Structures
- EED 210 - Multi-Media Design
- EED 220 - Design for Live Entertainment
- EED 250 - History of Entertainment and Technology

**Required Technical Theatre Courses - Credits: 9**
- THTR 200 - Introduction to Design/Technology
- THTR 204 - Theatre Technology I
- THTR 406A - Computer Drafting & Rendering: AutoCAD

**Required Internship & Capstone - Credits: 6**
- EED 493 - Internship in EED
- EED 497 - Senior Design I
- EED 498 - Senior Design II

Technology Science Fundamentals - Total Credits: 16

**Construction Technology - Credits: 10**
- CEM 250 - Construction Materials and Methods
- CEM 270 - Construction Engineering Mechanics
- CEE 409 - Engineering Project Management

**Computer Technology - Credits: 6**
- CpE 100 - Digital Logic Design I
- CS 135 - Computer Science I

Entertainment Technology Tracks - Total Credits: 18

Each student must complete two of the tracks listed below:

**Automation - Credits: 9**
- EED 330 - Programmable Systems for the Entertainment Industry
- EED 431 - Control Systems for the Entertainment Industry
- EED 442 - Animatronics Techniques

**Structural Design & Rigging - Credits: 9**
- CEM 370 - Steel and Wood Design in Construction
- CEM 372 - Concrete Design in Construction
- EED 320 - Rigging and Structural Design Principles

**Entertainment Venue Design - Credits: 9**
- CEM 350 - Facility Systems Design and Construction I
- CEM 351 - Facility Systems Design and Construction II
- EED 451 - Entertainment Venue Design

**Entertainment Sound Design (9 credits)**
- EED 217 - Entertainment Sound I
- EED 317 - Entertainment Sound II
- EED 417 - Entertainment Sound III

Total Credits: 120-123

Notes:

Program Policies

Regardless of catalog of graduation, students must
satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.

1. All prerequisite courses must be completed with a grade of C or better before the subsequent course can be taken.

2. All courses counted towards the degree must be completed with a grade of C or better.

3. The one 3-credit humanities elective should be selected to satisfy the Multicultural or International requirement.

4. The one 3-credit social science elective should be selected to satisfy the Multicultural or International requirement.

5. PHIL 242 will simultaneously satisfy both a humanities requirement and the Second Year Seminar requirement for students obtaining a degree from the College of Engineering that requires more than 120 credits.

Entertainment Technology and Design

Engineering is the creative application of scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. Entertainment engineering is an engineering discipline that creates the highly technical designs that the entertainment industry has come to demand. Entertainment engineering involves the application of traditional engineering disciplines including computer, electrical, mechanical and of Science in Entertainment Engineering and Design provides two academic paths for students who are interested in pursuing the interdisciplinary fusion of engineering and the fine arts that will allow them to succeed in the entertainment industry.

EED 100 - Entertainment Engineering and Design Seminar I
Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics.
Credits: 1
May be repeated for a maximum of two credits.

EED 110 - Material Science and Fabrication Techniques
Provides an overview of the many types of materials currently used in the entertainment industry; the science of these materials; fabrication methods using these materials; and hands-on experience with these materials and techniques.
Credits: 3
Corequisites: EED 100.
Prerequisites: MATH 127 or MATH 128 or higher, or SAT math score of 630 or higher or ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better.
EED 111 - Basic Kinetic Structures
Provides an overview of the many types of kinetic structures currently used in the entertainment industry; the science of these structures; fabrication methods using these structures; and hands-on experience working with these structures.
Credits: 3
Corequisites: MATH 181
Prerequisites: EED 110 with a grade of C or better.

EED 120 - Intro to Entertainment Technologies for the Non-Major
Provides an overview of the many types of technology currently employed in the entertainment industry. Emphasis will be given to examples developed in the past 10 years.
Credits: 3

EED 130 - Entertainment Visualization
Fundamental concepts of computer visualization applicable to the entertainment industry.
Credits: 3
Corequisites: EED 111.
Prerequisites: EED 100, EED 110. All prerequisites must be completed with a grade of C or better.

EED 200 - Entertainment Engineering and Design Seminar II
Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics.
Credits: 1
Prerequisites: EED 100 with a grade of C or better.
Notes: Required of all EED majors. To be taken in sophomore year.
May be repeated for a maximum of two credits.

EED 210 - Multi-Media Design
Focuses on the conceptual, technical and visual design skills required to create multimedia environments for the entertainment industry.
Credits: 3
Corequisites: EED 200.

EED 220 - Design for Live Entertainment
Introduction to the aesthetic principles of entertainment design. Study and practice of design for live entertainment through controlled use of color, line, mass, space, and light.
Credits: 3
Prerequisites: EED 200 and EED 210. All prerequisites must be completed with a grade of C or better.

EED 250 - History of Entertainment and Technology
Study of the evolution of entertainment in the 19th century to the present as an art form and as a science.
Credits: 3

EED 300 - Entertainment Engineering and Design Seminar III
Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics.
Credits: 1
Prerequisites: EED 200 with a grade of C or better.
Notes: Required of all EED majors. To be taken in junior year.
May be repeated for a maximum of two credits.

EED 310 - Product Design I
Students will learn to synthesize technology and aesthetics in the service of the entertainment industry. Emphasis is placed on conceptual thinking, creativity, risk-taking, non-fad-driven aesthetic appropriateness, personal motivation, networking, and interdisciplinary flexibility and cooperation.
Credits: 3
Prerequisites: EED 220 with a grade of C or better.
EED 317 - Entertainment Sound II
This is the intermediate-level course for sound design and technology in the live entertainment industry. Students will become familiar with live sound reinforcement theory and techniques.
Credits: 3
Prerequisites: EED 217 or THTR 217. All prerequisites must be completed with a grade of C or better.
Notes: Same as THTR 317.

EED 320 - Rigging and Structural Design Principles
Investigation of rigging systems in the entertainment industry and their demands on the structural design of a venue. Focuses on current trends in the entertainment industry.
Credits: 3
Prerequisites: EED 220 with a grade of C or better.

EED 330 - Programmable Systems for the Entertainment Industry
Investigation of programmable logic systems in the entertainment industry with emphasis on current industry practices.
Credits: 3
Prerequisites: EED 220 with a grade of C or better

EED 400 - Entertainment Engineering and Design Seminar IV
Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics.
Credits: 1
Prerequisites: EED 300 with a grade of C or better.
Notes: Required of all EED majors. To be taken in senior year.
May be repeated for a maximum of two credits.

EED 410 - Design Aesthetics in Entertainment Design
Examination of the aesthetic principles of entertainment design. Study and practice of design for the stage through controlled use of color, line, mass, space, and light.
Credits: 3
Prerequisites: EED 310 with a grade of C or better.

EED 417 - Entertainment Sound III
This is an advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with sound system design and installation in live entertainment venues.
Credits: 3
Prerequisites: EED 317 or THTR 317
Notes: Same as THTR 417.

EED 418 - Entertainment Sound IV
A continuation of the advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with the business of sound system design and installation in live entertainment venues. Students will also become familiar with effective system planning and integration from the end-user point of view.
Credits: 3
Prerequisites: EED 417 or THTR 417
Notes: Same as THTR 418

EED 420 - Entertainment Product Design II
Students will learn to synthesize technology and aesthetics in the service of the entertainment industry. Emphasis is placed on conceptual thinking, creativity, risk-taking, non-fad-driven aesthetic appropriateness, personal motivation, networking, and interdisciplinary flexibility and cooperation.
Credits: 3
Prerequisites: EED 310 with a grade of C or better.

EED 431 - Control Systems for the Entertainment Industry
Investigation of hydraulic, electrical and show control systems in the entertainment industry with emphasis on current industry practices.
Credits: 3
Prerequisites: EED 330 with a grade of C or better.
EED 432 - Rigging Systems for the Entertainment Industry
Investigation of rigging systems in the entertainment industry with emphasis on current industry practices.
Credits: 3
Prerequisites: EED 320 with a grade of C or better.

EED 441 - Motion Capture
Students will learn the technology used to create a 3D representation of a live performance or action through the use of modern technologies.
Credits: 3
Prerequisites: EED 220 with a grade of C or better.

EED 442 - Animatronics Techniques
Automata and Robots support humans, and can and interact with them. Introduces the technologies that enable computer-driven stagecraft, concepts of feedback control, robot control, and the computer technologies (hardware and software) to coordinate and automate sequences of events.
Credits: 3
Prerequisites: EED 220 with a grade of C or better

EED 451 - Entertainment Venue Design
Students will learn the principles and requirements used in designing entertainment venues with emphasis on current practices.
Credits: 3
Prerequisites: EED 220 with a grade of C or better

EED 491 - Special Topics in EED
Topics announced in the class schedule each year. May be used for EED degree requirement with permission from program coordinator.
Credits: 1-4
Prerequisites: EED 111 with a grade of C or better. May be repeated to a maximum of nine credits.

EED 493 - Internship in EED
Internship at regional/national centers of entertainment activity.
Credits: 1-4

EED 495 - Supervised Individual Study
Tutorial study of special problems in entertainment engineering and design. Student submits a detailed project description agreed upon first by student and instructor and then by two other members of the EED faculty. May not be used in meeting the core requirement credits.
Credits: 1-4
Prerequisites: Junior or senior standing; permission in advance of registration from the program coordinator/advisor. May be repeated to a maximum of nine credits.

EED 497 - Senior Design I
The first of two capstone design courses for Entertainment Engineering students. Students will begin a major design experience that uses knowledge and skills from prior courses and incorporates appropriate engineering standards and multiple realistic constraints. Students will begin the design process including research, conceptualization, feasibility assessment, and establishing design requirements.
Credits: 1
Corequisites: EED 400.
Prerequisites: EED 300 with a grade of C or better and consent of faculty advisor.

EED 498 - Senior Design II
The second of two capstone design courses for Entertainment Engineering students. Students complete the major design experience that began in EED 497. Students will complete the design process including completing a preliminary design and establishing design requirements, and analyzing, producing, testing and presenting the design.
Credits: 2
Prerequisites: EED 497 with a grade of C or better.
Solar & Renewable Energy Minor

Students will choose between the Policy Track or the Solar Engineering and Sciences Track.

Policy Track (21 credits) Minimum GPA: 2.0

Available to all baccalaureate majors, the Solar and Renewable Energy minor with a Policy Concentration is intended to provide students with, in its core required courses, knowledge of global environmental problems and different types of solar energy utilization and competence in sustainable building design. In the Solar Policy electives, students will develop competence in environmental history, policy, and science.

Solar Engineering & Sciences Track (21-23 credits) Minimum GPA: 2.0

Available primarily to baccalaureate science and engineering majors, the Solar and Renewable Energy Minor-Engineering and Sciences Concentration, is intended to provide students with, in its core required courses, knowledge of global environmental problems and different types of solar energy utilization, competence in both solar thermal and photovoltaic system design and sustainable building design. In the Solar Engineering and Sciences electives, students will develop technical depth in the scientific fundamentals and engineering design principles of renewable energy.

Required Minor/Concentration Courses - Policy Track:

- ME 477 - Solar and Renewable Energy Utilization
- ENV 101 - Introduction to Environmental Science and
- AAE 330 - Design with Climate or
- AAE 435 - Developing Sustainable Design

Solar Engineering & Sciences Minor Track - Courses Include:

Choose one course in each of the following four areas:

Choose One:
- Any 100-level AAE course.
- ENV 206 - Introduction to Climate Change
- GEOL 110 - Global Warming
- GEOL 303 - Global Environmental Change

Choose One:
- ENV 407 - Environment and Society or
- SOC 407 - Environment and Society
- ENV 420 - Environmental Impact Analysis
- NRES 411 - Environmental Law

Choose One:
- HIST 441 - American Environmental History
- HIST 443 - Comparative Environmental History

Choose One:
- PSC 320 - Policy Analysis
- PSC 321 - Analyzing Policy Issues
- PSC 403A - Natural Resource Policy
- PSC 405Q - Global Ecopolitics
- PSC 403B - Energy Politics and Policy

Required Minor/Concentration Courses - Solar Engineering & Sciences Track:

- ME 477 - Solar and Renewable Energy Utilization
- ENV 101 - Introduction to Environmental Science
- Any 400-level EE course.
- Any 400-level ME course.
Choose 2 of the following courses that are NOT part of your major or pre-requisite requirements.
Note: If you take the 1 credit ME 315 lab, you must take 2 other courses.

- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 421 - Physical Chemistry I
- CHEM 422 - Physical Chemistry II
- CHEM 431 - Advanced Inorganic Chemistry
- EE 292 - Fundamentals of Electrical & Computer Engineering
- EE 320 - Electronics I
- EE 320L - Electronics I Laboratory
- EE 340 - Power System Fundamentals
- EE 340L - Power System Fundamentals Laboratory
- EE 450 - Solid State Devices
- EE 450L - Solid State Characterization Laboratory
- EE 453 - Introduction to Nanotechnology
- ME 311 - Engineering Thermodynamics I
- ME 314 - Introduction to Heat Transfer
- ME 315 - Thermal Engineering Laboratory
- ME 415 - Design of Thermal Systems
- ME 418 - Air Conditioning Engineering Systems
- ME 419 - Advanced HVAC and Energy Conservation Systems
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 461 - Light and Physical Optics
- PHYS 462 - Modern Optics and Photonics

Technology Commercialization Minor

This minor is intended for all undergraduate students of the College of Engineering. The minor consists of curriculum covering prototyping, commercialization, and business-related concepts. The minor exposes engineering majors to elements of technology commercialization with the relevant aspects of both entrepreneurship and commercialization within established enterprises. The minor is coupled with senior design experience. The minor will culminate in a business plan competition.

Required Courses - Total Credits: 20-21

- EGG 101 - Introduction to Engineering Experience
- ECON 102 - Principles of Microeconomics or
- ECON 190 - Global Economics
- COM 101 - Oral Communication or
- COM 216 - Survey of Communication Studies
- CEE 307 - Engineering Economics
- EGG 460 - Technology Commercialization
- MGT 493 - Seminar in Entrepreneurship or
- MGT 497 - Business Plan Creation
- Engineering or Computer Science Capstone (Senior Design) can be met with any of the following options:
  - (option a) CEE 498 - Civil Engineering Capstone Design or
  - (option b) CS 472 - Software Product Design and Development I or
  - (option c) CS 495 - Senior Project Development I and
- CS 496 - Senior Project Development II
or
- (option d) EE 497 - Senior Design Project I and
EE 498 - Senior Design Project II
- (option e) EED 497 - Senior Design I and
EED 498 - Senior Design II
- (option f) ME 497 - Senior Design Project I

All courses included in the minor must be passed with grades of C or better.

**Unmanned Aircraft System (UAS) Minor**

Admissions Requirements: 2.50 GPA

Courses Include - Total Credits: 21

Required Minor Courses: UAS Core Courses (9 cr.)
- EGG 370 - UAS Design and Applications
- EGG 470 - UAS Simulation and Testing
- LAW 432 - Drones and Privacy

Required Minor/Concentration Electives: 12 unique credits of from one of the following specialty tracks. Mixing of credits between different specializations can be done with the consent of the program coordinator. No more than nine (9) credits can be counted toward major degree.

Autonomous System Design Track:
- ME 110 - Private Pilot Ground School
- ME 242 - Dynamics
- ME 380 - Fluid Dynamics for Mechanical Engineers
- ME 421 - Automatic Controls
  or
- EE 370 - Control Systems I
- ME 425 - Robotics
- ME 446 - Composite Materials
- ME 482 - Aerodynamics
- EE 475 - Autonomous Systems and Control

Control Track:
- EE 360 - Signals and Systems I
- EE 370 - Control Systems I
- EE 472 - Digital Control Systems
- EE 475 - Autonomous Systems and Control

Communication Track:
- EE 360 - Signals and Systems I
- EE 361 - Signals and Systems II
- EE 432 - Antenna Engineering
- EE 460 - Introduction to Communication Systems
- EE 466 - Wireless and Mobile Communication Systems
- CpE 400 - Computer Communications Networks

HCI (Human-Computer Interaction) Track:
- CS 135 - Computer Science I
- CS 351 - Introduction to Multimedia
- CS 420 - Human-Computer Interaction
- CS 465 - Computer Networks I
- CS 469 - Introduction to Digital Image Processing
- CS 482 - Artificial Intelligence

Minor must be completed by date of graduation.

**Information Technology Certificate**

The completion of the IT certificate equips students with IT skills such as advanced web development, database management techniques, human computer interaction, information assurance, and security.

GPA: 2.5

Required Certificate Courses - Total Credits: 15
- CS 140 - Computing Languages
- CS 270 - Introduction to Internet & World Wide Web
Technology Commercialization Certificate

Admissions Requirements: 2.50 GPA

Courses Include - Total Credits: 12

This certificate program provides students with the necessary foundational knowledge in technology commercialization. Students will learn fundamentals of engineering technology, engineering economics, how to create business plans, and the steps required to commercialize and launch a technology into markets by creating a technology commercialization plan.

- EGG 100 - People and Technology
- CEE 307 - Engineering Economics
- EGG 460 - Technology Commercialization
- MGT 493 - Seminar in Entrepreneurship
  or
- MGT 497 - Business Plan Creation

Unmanned Aircraft System (UAS) Certificate

Admissions Requirements: 2.50 GPA

Courses Include - Total Credits: 13

This certificate program provides students with the necessary foundational knowledge in UAS operation as well as privacy issues and other legal ramifications in their usage. Students shall acquire key technical skills and procedures through electronic simulator operations as well as an actual flight of a small UAS.

- ME 110 - Private Pilot Ground School
- EGG 370 - UAS Design and Applications
- LAW 432 - Drones and Privacy
- EGG 470 - UAS Simulation and Testing

Engineering Entrepreneurship Certificate

The Engineering Entrepreneurship Certificate program prepares students to be successful engineering entrepreneurs by providing them with specific skills and knowledge that are most important to be successful in designing, developing, and marketing products and services in a financially and legally sound way. It is a 21 credits program that includes courses in diverse areas such as hands-on engineering fundamentals, engineering economics, lean start-up, and technology commercialization.

GPA: 2.0 and above

Required Certificate Courses - Total Credits: 21

- EGG 100 - People and Technology
- EGG 201 - Engineering Hands-on Experience for non-majors
- CEE 307 - Engineering Economics
- EGG 460 - Technology Commercialization and either
- MGT 304R - Lean Start-Ups
  and
- MGT 497 - Business Plan Creation
  or
- MKT 301 - Marketing Management
  and
- MGT 302 - Small Business Management

Electives: 3 credits:
Any college approved 3 credit elective.

Web Development Certificate

Total Credits: 9

The completion of the AWD certificate equips students with the skills to develop and maintain web sites. The courses are designed to help
students understand the data modeling, view building, and control mechanism.

- CS 140 - Computing Languages
- CS 270 - Introduction to Internet & World Wide Web
- CS 270L - Introduction to Internet & World Wide Web - Lab
- ITE 451 - Managing Big Data and Web Databases

**EGG 100 - People and Technology**
Problems and issues caused by and solved by applications of technology. Such issues as natural disasters, populations, food supply, distribution of energy, and other topics considered.
Credits: 3
Notes: Satisfies the General Education Core Science requirement.

**EGG 101 - Introduction to Engineering Experience**
Seminar: Introduction to UNLV learning outcomes and the programs that reside within the College of Engineering. Topics include professional ethics, technical communication, the design process, and technology's impact on a global society.
Credits: 2
Notes: Fulfills First Year Seminar requirement.

**EGG 102 - Introduction to Engineering Design**
Engineering problems for math. Introduces the design process to include team design, problem formulation, statement of criteria, brainstorming, decision matrix, preparation of specifications and presentation of results.
Credits: 2
Corequisites: ENG 101.
Prerequisites: MATH 127 or MATH 128 or higher, or SAT math score of 630 or higher or ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better.

**EGG 102L - Introduction to Design Laboratory**
Introduction to techniques used in the design process: sketching, dimensioning, brainstorming, decision trees, decision matrices, P.C. software packages.
Credits: 1
Corequisites: EGG 102.

**EGG 130 - Control of Environmental Pollution**
(Same as ENV 130.) Introduction to pollution control methods, beginning with water-borne diseases and sanitation. Progression to mass balance concepts and development of pollution control measures designed to improve air and water quality and minimize risk of exposure to hazardous wastes. Not for credit towards engineering degree.
Credits: 3
Prerequisites: CHEM 105, BIOL 100, MATH 128.

**EGG 201 - Engineering Hands-on Experience for non-majors**
Hands-on engineering course covering (1) basic electronics (2) device development (3) web and smart phone programming (4) big data and databases and (5) hands on robotics.
Credits: 3

**EGG 202 - Second Year Hands-on Design Experiences in Engineering and Computer Science**
A holistic experience for second-year engineering and computer science students. Lab work, improve study skills, strengthen/solidify their sense of community, career paths exploration, update of their academic plan.
Credits: 1
Prerequisites: Sophomore standing and EGG 101.

**EGG 300 - Quality Control and Quality Improvement Engineering**
Quality assurance as a system problem. Components and theory of the system presented including quality fundamentals, process definition, basic statistics, sampling distributions, control charts, assignable causes, diagnosing a process, and process improvement. Current quality philosophies discussed.
Credits: 3
Prerequisites: MATH 128 and junior standing.
EGG 370 - UAS Design and Applications
The course introduces engineering/computer science students an overview of UAS terms, components, basic principles, engineering designs, navigational systems, sensors, data links currently in use around the globe. This introductory course also covers UAS system classification, roles and command and control options, and its limitation including UAS case studies and future capabilities.
Credits: 3
Prerequisites: All Engineering majors or a Computer Science major.

EGG 412* - Engineering Law
Survey course in legal principles and theory for contracts, methods of doing business, patents, and copyrights. Topics include: product liability, nuisance, defamation, and other torts.
Credits: 3
Prerequisites: Senior standing in engineering.

EGG 417* - Mold Making and Casting
Advanced mold making and casting techniques culminating in 3-D objects made in clay, porcelain, aluminum, bronze, and plaster.
Credits: 3
Prerequisites: ME 220.

EGG 451 - Ergonomics
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.
Credits: 3
Prerequisites: ME 242 and ME 302, or PHYS 151, PHYS 152.
Notes: This course is crosslisted with EGG 651. Credit at the 600-level requires additional work.

EGG 460 - Technology Commercialization
Combines the perspectives of engineering design, design for manufacturing, industrial design, and technology market identification into a unified product design method. Instruction and hands-on examples of customer needs to quality measures, concept generation, prototype optimization, and market introduction.
Credits: 3
Prerequisites: ME 242 or EE 221 or CEE 241 or CS 370 or instructor permission. All prerequisites should be completed with a grade of C or better.

EGG 470 - UAS Simulation and Testing
The course begins with an overview of experimental flight test terms, covers experimental test flight planning and procedures along with simulator operation as well as an actual flight of a small UAS. Successful completion prepares the student to apply for a Federal Aviation Administration Repairman certificate.
Credits: 3
EGG 370 with a grade of C or better or a consent of instructor.

EGG 499 - Research Internship for Engineering and Computer
Research experience for international engineering and computer science students. Students will participate in research with a faculty member in their area of interest. Topic of research is agreed upon by student and faculty member, before student comes to the US.
Prerequisites: Junior or Senior level standing. Available for non-degree international student only.

ITE 201 - Introduction to UNIX Based Operating Systems
An introduction to UNIX based operating systems. Topics covered will include files, processes, directory structure, permissions; pathnames, copying, moving, redirection, and searching in the files, compiling and installing software packages, configuring and creating make file, shell scripting, system administration, and networking.
Credits: 3
Prerequisites: CS 140
ITE 401 - Introduction to Virtualizations and Containers
This course is an introduction to concepts, applications, and performance of virtualization. Topics include virtual machine (VM) monitor and its interaction with operating system and hardware, mapping of virtual to physical disks, and performance modeling. The course will use software packages to illustrate the implementation aspects of virtualization including: management of VMs with Vagrant, provisioning with Chef and Puppet, creating images, containers, volumes, and links with Docker. Basics of groups and union file systems and their role in Docker. Brief overview of Ruby DSL and Docker architecture.
Credits: 3
Prerequisites: ITE 201

ITE 444 - Information Technology and Human Computer Interaction
This Course will teach the fundamental concepts and techniques for design, implementation, and evaluation of human computer interfaces for information technology applications. Topics include foundations of human-computer interaction, human-centered design, understanding users, affective aspects, data gathering, prototyping, and evaluation of user int.
Credits: 3
Prerequisites: CS 270 and CS 270L

ITE 451 - Managing Big Data and Web Databases
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. Projects in SQLite, MongoDB, and Postgres will be developed to show the capabilities of these databases.
Credits: 3
Corequisites: CS 270, CS 270L
Prerequisites: CS 140 or CS 135.

Notes: This course is crosslisted with ITE 651. Credit at the 600-level requires additional work.

LAW 432 - Drones and Privacy
Discusses constitutional right to privacy, the four privacy torts, contrast between right of privacy and right against defamation, and right of publicity.
Credits: 3
Prerequisites: Junior standing

ME 477 - Solar and Renewable Energy Utilization
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.
Credits: 3
Prerequisites: Admission to the Solar and Renewable Energy Minor and upper division standing.
Notes: This course is crosslisted with ME 677. Credit at the 600-level requires additional work.
Aerospace Studies

Introduction
Air Force Reserve Officer Training (AFROTC) is an educational program designed to give men and women the opportunity to become Air Force officers while completing their college degrees. The Air Force ROTC program is focused on preparing cadets to become leaders in today's high-tech Air Force. Upon completion of the AFROTC program and the attainment of a baccalaureate degree, the graduate receives a commission as an officer in the U.S. Air Force. A monthly subsistence is provided during the junior and senior years. Scholarships are awarded on a competitive basis in increments of four, three, and two years.

Program Eligibility
The program is open to qualified men and women representing all academic majors of the university. To qualify for membership in the AFROTC program, a student must be a citizen of the United States and by their junior year be at least 17 years of age, physically qualified, and enrolled as a full-time student. All UNLV students are eligible to register for AFROTC academic courses even if they are not members of AFROTC. UNLV students who desire a varied aerospace education without seeking a commission are encouraged to enroll in classes on a space-available basis for the purpose of academic credit only. These students are not required to attend traditional AFROTC activities.

AFROTC Scholarships
Competitive scholarships are made directly to students by the Air Force in accordance with Department of Defense policies. All AFROTC scholarships and stipends involve transactions between the programs and the student without university intervention. Although the university will not supplement AFROTC scholarships directly, students enrolled in the AFROTC program are eligible to apply for merit-based university and college scholarships as well as need-based and merit-based state and federal assistance programs.

Aerospace Studies Minor

Program Objectives
The objective of the Air Force ROTC program is to educate and train cadets to become outstanding leaders in the United States Air Force and to guide and motivate cadets to embrace the Air Force core values of "integrity first, service before self, and excellence in all we do."

Program Overview
AFROTC is typically a four-year program, but it is possible to complete the core requirements in as little as three years. A student with prior active-duty military experience can complete the program in just over two years. The program is divided into two distinct sections, the General Military Course (GMC) and the Professional Officer Course (POC).

General Military Course
The first two years of the Air Force ROTC program, the General Military Course, consist of one hour of classroom work and two hours of leadership laboratory each week. The General Military Course is an opportunity for students not on an Air Force ROTC scholarship to try out the program with no obligation. After completing General Military Course requirements, if you wish to compete for entry into the last two years of the program, the Professional Officer Course, you must do so under the requirements of the Professional Officer Course selection system. This system uses qualitative factors, such as grade point average, physical fitness scores, unit commander evaluation and aptitude test scores to determine if you have officer potential. After selection, you must successfully complete a four-week field training encampment (during the summer break prior to your junior year in the program) before entering the Professional Officer Course. Once you are enrolled in the Professional Officer Course, you must attend a three-hour class each week and
continue to participate in the weekly leadership laboratory.

**Professional Officer Course**

In the Professional Officer Course, you apply what you have learned in the General Military Course and at field training. In the Professional Officer Course, you actually conduct the leadership laboratories and manage the unit's cadet corps. Each unit has a cadet corps based on the Air Force organizational pattern of flight, squadron, group and wing. Professional Officer Course classes are small. Emphasis is placed on group discussions and cadet presentations. Classroom topics include management, communication skills and national defense policy. Once you have enrolled in the Professional Officer Course, you enter into a contract with the Air Force stating that you agree to complete the remainder of the program and commission into the Air Force. As part of the contract, you are enlisted into the Air Force Reserve and assigned to the Obligated Reserve Section. This entitles you to a monthly $300-$500 non-taxable stipend during the academic year.

Partnership with College of Southern Nevada (CSN) or Nevada State College (NSC).

Students enrolled full-time at either the College of Southern Nevada (CSN) or Nevada State College (NSC) may enroll in the AFROTC program at their respective colleges, while attending AES classes at UNLV.

**Program Objectives**

**Department Policies**

Students pursuing a commission in the USAF must enroll in the class and leadership lab. Students not pursuing a commission can enroll only in the class.

**Textbooks, Uniforms and Equipment**

The U.S. Air Force provides students with required textbooks at no additional expense. Uniforms, uniform items, and equipment will also be issued to qualified cadets at no additional expense.

Uniforms are for use during AES class, Leadership Lab, and other training conducted by the program. Uniforms will be turned in at the end of each semester.

**AES 110 - United States Air Force Heritage and Values I**

Survey course designed to provide students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman.

Credits: 1

**AES 111 - AFROTC Leadership Lab 1-A**

Progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer's environment and culture and opportunities available to commissioned officers.

Credits: 2

Corequisites: AES 110 or equivalent.

Notes: S/F grading only.

**AES 120 - Foundations of the United States Air Force II**

Survey course designed to introduce AFROTC cadets to the leadership aspects of being an Air Force officer and the environment in which the Air Force officer functions. Course emphasizes the Air Force's core values and other unique characteristics of serving in the United States Air Force.

Credits: 1

Prerequisites: AES 110 or equivalent.

**AES 121 - AFROTC Leadership Lab I-B**

Progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer's environment and culture and
opportunities available to commissioned officers.
Credits: 2
Corequisites: AES 120 or equivalent.
Notes: S/F grading only.

AES 230 - United States Air Force Team and Leadership Fundamentals I
Survey course designed to provide a fundamental understanding of both leadership and team building.
Credits: 1

AES 231 - AFROTC Leadership Lab II-A
In-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focuses on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. AES 231 is required for all cadets applying to attend Field Training.
Credits: 2
Corequisites: AES 230 or equivalent.
Notes: S/F grading only.

AES 240 - Evolution of USAF Air and Space Power II
Survey course to trace the development of U.S. Air Force air and space power through a historical prism. Begins with study of the Vietnam War and concludes with the second war against Iraq. Emphasis placed on evolving nature of Air Force capabilities, functions and doctrine.
Credits: 1
Prerequisites: AES 230 or equivalent.

AES 241 - AFROTC Leadership Lab II-B
In-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focuses on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. AES 241 is required for all cadets applying to attend Field Training.
Credits: 2
Prerequisites: AES 240 or equivalent.
Corequisites: AES 240 or equivalent.
Notes: S/F grading only.

AES 351 - Air Force Leadership Studies I
Designed to provide AFROTC cadets the opportunity to study and master the leadership, management and communication skills required of successful Air Force officers. Participate and interactive learning methodologies are used throughout to ensure students have internalized and can apply concepts being studied.
Credits: 3
Prerequisites: AES 240 or equivalent or junior or higher standing.

AES 352 - AFROTC Leadership Lab III-A
Study of advanced leadership topics such as: planning and controlling the military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and providing guidance, direction, and information to increase the understanding, motivation, and performance of other cadets.
Credits: 2
Corequisites: AES 351 or equivalent.
Notes: S/F grading only.

AES 361 - Air Force Leadership Studies II
Designed to provide AFROTC cadets the opportunity to study and master the leadership, management and communication skills required of successful Air Force officers. Emphasis placed on the study of military ethics, leadership accountability and professional relations. Participative and interactive learning methodologies used throughout.
Credits: 3
Prerequisites: AES 351 or equivalent or junior standing.

AES 362 - AFROTC Leadership Lab III-B
Study of advanced leadership skills such as: planning and controlling the military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and
AES 471 - National Security Affairs/Preparation for Active Duty I
Provides advanced AFROTC cadets the opportunity to study the national security policy process, the make-up and joint nature of the U.S. military and pertinent regional issues. Participative and interactive learning methodologies used throughout. Continued emphasis placed on developing effective leadership and communication skills.
Credits: 3
Prerequisites: AES 361 or equivalent or junior standing.

AES 472 - AFROTC Leadership Lab IV-A
Provides senior AFROTC cadets advanced leadership experiences involving: planning and controlling military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and providing guidance, direction and information to increase the understanding, motivation, and performance of other cadets.
Credits: 2
Corequisites: AES 471 or equivalent.
Notes: S/F grading only.

AES 481 - National Security Affairs/Preparation for Active Duty II
Provides advanced AFROTC cadets the opportunity to study regional issues impacting the U.S. Air Force, the unique aspects of the profession of arms and prepare them to enter active duty as an Air Force officer. Continued emphasis placed on developing effective leadership and communication skills.
Credits: 3
Prerequisites: AES 471 or equivalent or junior standing.

AES 482 - AFROTC Leadership Lab IV-B
Provides senior AFROTC cadets advanced leadership experiences involving: planning and controlling military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and providing guidance, direction and information to increase the understanding, motivation, and performance of other cadets.
Credits: 2
Corequisites: AES 481 or equivalent.
Notes: S/F grading only.

Air Force Reserve Officer Training Corps (ROTC)
The Air Force Reserve Officer Training Corps (Air Force ROTC) is an educational program designed to give men and women the opportunity to become Air Force officers while completing their college degrees. The Air Force ROTC program is focused on preparing cadets to become leaders in today's high-tech Air Force. Upon completion of the AFROTC program and the attainment of a baccalaureate degree the graduate receives a commission as an officer in the US Air Force. A monthly subsistence is provided during the junior and senior years. Scholarships are awarded on a competitive basis in increments of four, three, and two years. Air Force ROTC enrollment is not restricted to individuals who wish to become commissioned officers in the USAF. Students may elect to take Air Force ROTC without seeking a commission in courses for academic credit only, earning elective credits for university degrees. These students are not required to attend the traditional AFROTC activities.

FOUR/THREE YEAR PROGRAM
The first half of the four-year program is called the General Military Course, which is offered during a student's freshman and sophomore years. NSC and CSN students may take these courses which are
offered at UNLV. This program allows students to try out Air Force ROTC for up to two years without incurring any obligation (unless they are on an Air Force ROTC scholarship). As students attend class, they learn more about the Air Force and the historical development of airpower. The last two years are called the Professional Officer Course. These junior and senior level classes, offered at UNLV, cover leadership skills and national defense policy. Students must be enrolled full time at NSC and CSN in order to take these courses and commission as second lieutenants upon successful completion of the program.

FINANCES
Textbooks for all Air Force ROTC courses are provided by the Air Force free of charge. Students who have contracted with Air Force ROTC receive a tax-free subsistence allowance during the academic year of $300-$500 per month, depending on their academic year.

AIR FORCE ROTC SCHOLARSHIPS
Air Force ROTC offers scholarships covering a student’s college education for two, three, or four years. Each scholarship pays up to full tuition, laboratory fees, incidental fees, an annual book allowance up to $600, and a tax-free subsistence allowance of at least $300 per month. In-college scholarship opportunities are also available for students already enrolled in the Air Force ROTC program. Freshmen can earn three-year scholarships, while sophomores can earn two-year scholarships. College transferees may also apply for these scholarships. All scholarship applicants must meet the following minimum requirements:

- Be a U.S. citizen
- Be less than 31 years old as of December 31 of the year you will commission
- Meet military and physical standards
- Pass the Air Force Officer Qualifying Test
- Have a minimum cumulative GPA of 2.50

Aerospace Studies Minor (16 credits)
AES 110/120, 111/121, 230/240, 231/241, 351/361, 352/362, 471/481, 472/482. Sixteen credits of AES classes: 100 and 200 level classes are not prerequisites and can be taken concurrently with any other AES classes for students not pursuing commission and therefore not eligible to enroll in the labs.

AS100 (AES 110/120) – The Foundations of the United States Air Force
Description. AS100 is a survey course designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

Course Objectives: The AS100 student should know what AFROTC and the Air Force have to offer potential entrants, as well as the expectations the Air Force will set concerning core values and leadership. The student should also have a basic knowledge of what role the Air Force plays and how it is organized to support national objectives. The individual should demonstrate basic communicative skills.

AS200 (AES 230/240) – The Evolution of USAF Air and Space Power
Description. A course designed to examine general aspects of air and space power from a historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror. Historical examples are provided to show the development of Air Force distinctive capabilities (previously
referred to as core competencies), and missions (functions) to demonstrate the evolution of what has become today’s USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air and space power. As a whole, this course provides the students with a knowledge-level understanding for the general employment of air and space power, from an institutional, doctrinal, and historical perspective. In addition, what the students learned about the Air Force Core Values in AS100 will be reinforced through the use of operational examples, and they will complete several writing and briefing assignments to meet Air Force communication skills requirements.

**Course Objectives:** The AS200 student should know the key terms and definitions used to describe air and space power. The individual should know the events, leaders, and technical developments that led to the evolution and employment of USAF air and space power. The individual should demonstrate basic verbal and written communication skills. The individual should know the Air Force Core Values and examples of their use throughout the evolution of USAF air and space power.

**AS 300 (AES 351/361) – Air Force Leadership Studies**

**Description:** AS 300 is a study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course.

**Course Objectives:** The AS 300 cadet should comprehend selected individual leadership skills and personal strengths and weaknesses as applied in an Air Force environment. The individual should comprehend the responsibility and authority of an Air Force officer, the Air Force officer’s responsibilities in the counseling and feedback process, and the selected duties and responsibilities as a subordinate leader. The individual should comprehend and apply concepts of ethical behavior as well as comprehend the selected concepts, principles, and theories of quality in Air Force leadership and management. The individual should apply listening, speaking, and writing skills in Air Force-peculiar formats and situations with accuracy, clarity, and appropriate style.

**AS 400 (AES 471/481) – National Security Affairs/Preparation for Active Duty**

**Description.** AS 400 examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officer ship, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.

**Course Objectives:** The AS 400 cadet should comprehend the basic elements of national security policy and process. The individual should comprehend the air and space power functions and competencies. Also, the individual should comprehend selected roles of the military in society and current issues affecting the military profession as well as selected provisions of the military justice system. The individual should comprehend the responsibility, authority, and functions of an Air Force commander. The individual should apply listening, speaking, and
writing skills in Air Force-peculiar formats and situations with accuracy, clarity, and appropriate style. The individual should comprehend the factors, which facilitate a smooth transition from civilian to military life.

**Leadership Laboratory (AES 111/121, 231/241, 362/362, 472/482)**

**Description:** Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. LLAB cadets are classified into one of four groups with respect to field training attendance and/or commissioning. Initial Military Training (IMT) cadets are part of the General Military Course (GMC) but are not scheduled to attend field training (normally AS100 cadets). The focus of IMT objectives/activities are to promote the Air Force way of life and help effectively recruit and retain qualified cadets. This time is spent acquainting the cadets with basic Air Force knowledge and skills to help them determine whether they wish to continue with the AFROTC program. Field Training Prep (FTP) cadets are scheduled to attend field training in the upcoming year (normally AS200 cadets). The FTP objectives provide training to ensure every cadet is mentally and physically prepared for the rigorous field training environment. Intermediate Cadet Leaders (ICL) are cadets returning from field training (normally AS300 cadets). ICL objectives/activities give cadets the opportunity to further develop the leadership and followership skills learned at field training. Every cadet position should provide the ICL the opportunity to sharpen their planning, organizational, and communication skills, as well as their ability to effectively use resources to accomplish a mission in a constructive learning environment. Senior Cadet Leaders (SCL) are cadets scheduled to be commissioned in the upcoming year (normally AS400 cadets). This time is spent on additional opportunities to develop leadership and supervisory capabilities, and prepares cadets for their first active duty assignment. Extended Cadet Leaders (ECL) are cadets whose ROTC academic requirements are complete but still have one or more terms of college left to complete. These cadets may hold special duty or regular positions within the cadet corps upon discretion of the Detachment Commander (Det CC) or Commandant of Cadets (COC).

**Course Objectives:** The IMT cadet in the LLAB program should know the principles of the Holm Center Training Manual (HCTM), Air Force customs and courtesies, dress and grooming standards, and grade structure and insignia as well as the chain of command. The individual should know the AFROTC Honor Code. The individual should know effective time management skills, the benefits of exercise and nutrition, as well as the AFROTC weight and fitness standards. The individuals will know the courtesies and procedures associated with the United States flag and know and demonstrate individual and flight drill positions and movements. Finally, they will begin to know the environment of the Air Force officer by participating in a unit formal dinner, retreat, parade, and awards ceremony.

For more information, contact:
AFROTC Detachment 004
Department of Aerospace Studies
Box 454005
4505 Maryland Parkway
Las Vegas, Nevada 89154-4005
(702) 895-5313
http://afrotc.unlv.edu/
Military Science

The Army ROTC program in the Department of Military Science offers an academically challenging and practical curriculum which can be completed in eight semesters or a compressed program of either four or six semesters. The military science curriculum supplements the university’s baccalaureate or postgraduate studies. The Army is prepared to award a commission to any deserving student based on both Army ROTC and academic achievement upon graduation.

The scope of the military science curriculum is oriented toward developing the best all-around student who demonstrates leadership and managerial skill, reacts well under pressure, and understands general military subjects. Student cadets attend classroom conferences and a leadership laboratory program.

Program Objectives

The overall objective of the Army ROTC program is to develop in the student cadet (through both classroom theory and practical application) the necessary traits, knowledge, proficiency, and experience needed to be commissioned as an officer in the United States Army. The candidate’s course of study includes a broad educational base, including academic subjects of particular value in both civilian and military pursuits. Student cadets develop expertise in the following subject areas:

1. General knowledge of the historical development of the United States Army and its role in support of national objectives.
2. Working knowledge of general organizational structure and how the various components of an organization operate as a team in the fulfillment of overall objectives.
3. Strong understanding of personal integrity, honor, and individual responsibility.
4. Knowledge of the human relationships involved in an organization and an understanding of the responsibilities of military service assignments.
5. The ability to communicate effectively, both orally and in writing.
6. Sufficient knowledge of military life to ensure a smooth transition from the civilian environment.

The curriculum prepares the student for military service.

Admission to the Program

The first two years of the Army ROTC program are called the Basic Program and are offered at the CSN and UNLV Campuses. Only the final two years, constitute the Advanced Program. The Advanced Program is open to undergraduate and graduate students who have successfully completed the Basic Program, the six-week Army ROTC basic summer camp, or those who have completed Basic Training and who have completed a minimum of 60 college credits.

The basic summer camp (Leader's Training Camp) is normally scheduled after the student's sophomore year. The basic summer camp substitutes for the basic program and is geared for students who join the ROTC program late and wish to finish the curriculum in four semesters (two years).

To be admitted into the Advanced Program, a student must:

1. Be a citizen of the United States and be regularly enrolled as a full-time student at the university.
2. Be able to complete the course, graduate and be commissioned prior to the 30th birthday (waivers are possible).
3. Have successfully completed such survey and screening tests as may be prescribed.
4. Have successfully passed a prescribed physical examination.
5. Be selected by the Chair of the Department of Military Science.
6. Executed a written contract with the United States government.

As part of the advanced program, the student enters into a contract with the Army, whereby the individual agrees, contingent upon continued university enrollment, to complete the Army ROTC program (including advanced summer camp) and to accept a commission, if offered, upon completion of the degree program. To be eligible for commissioning, a student must earn at least a bachelor’s degree.

**Advanced Program Requirements**

**12 credits**
MIL 301, MIL 302, MIL 401, MIL 402

**Volunteer Extracurricular Activities**

**Ranger Challenge Team**
A highly competitive organization that provides additional military training for students who are preparing to become Combat Arms Officers. The Ranger Challenge Team competes annually as a varsity sport against teams from other colleges and universities in the western United States.

**Financial Assistance**

In the basic program, students with Army ROTC scholarships, or those contracted cadets receive up to $500/month. Students awarded two-, three- and four-year Army ROTC scholarships by the Department of the Army receive a per month subsistence stipend while enrolled in school (10 months per year maximum), as well as payment for tuition, fees, and books.

All other students formally enrolled in the advanced course are paid a per month stipend while enrolled in school, not to exceed a total of 20 months. Students are paid one-half of the base pay of a second lieutenant while attending the six-week summer camp training, plus travel pay to and from summer camp. The Department of Military Science has a limited number of in-state and out-of-state fee waivers available each semester for students requiring financial assistance.

Additionally, the National Guard and Army Reserve pay up to 100 percent of the credit costs plus book reimbursement for students who elect to serve simultaneously in the National Guard or Army Reserve and ROTC.

**Textbooks, Uniforms and Equipment**

The U.S. government provides students with required textbooks, and provides uniforms and equipment to qualified cadets.

Uniforms are for use during MIL 100 and other training conducted by the program. Uniforms are turned in at the end of each semester.

**Military Science**

Courses - Credits: 25

- MIL 101 - Basic Military Skills I
- MIL 102 - Basic Military Skills II
- MIL 201 - Leadership and Management I
- MIL 202 - Leadership and Management II
- MIL 301 - Leadership in Small Unit Operations
- MIL 302 - Advanced Leadership Development
- MIL 350 - Cadet Leadership Course
- MIL 401 - Adaptive Leadership
- MIL 402 - Leadership in a Complex World
- HIST 386A - Military History of the United States to 1900
- HIST 386B - Military History of the United States Since 1900

Can substitute MIL 101, 102, 201, 202 with MIL 250

**MIL 101 - Basic Military Skills I**

Mission of the armed services, introduction to the United States Army, its customs and traditions, the role of the Army Officer, the role of the Non-Commissioned Officers Corps, Organizations of the TOTAL Army (Including the National Guard and Army Reserves). Introductory orienteering, marksmanship, physical fitness and briefing skills. Credits: 2
MIL 101L - Military Science Lab and Physical Training I
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 101 Lecture. Hands-on lab focusing on the introduction to military leadership, planning and execution of squad tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.
Credits: 1
Corequisites: MIL 101

MIL 102L - Military Science Lab and Physical Training II
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 102 Lecture. Hands-on lab focusing on the introduction to military leadership, planning and execution of squad tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.
Credits: 1
Corequisites: MIL 102

MIL 201L - Military Science Lab and Physical Training III
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 201 Lecture. Hands-on lab focusing on military leadership, planning and execution of squad tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.
Credits: 1
Corequisites: MIL 201

MIL 202L - Military Science Lab and Physical Training IV
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 202 Lecture. Hands-on lab focusing on military leadership, planning and execution of squad tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.
Credits: 1
Corequisites: MIL 202

MIL 250 - Cadet Initial Entry Course
A five week course at Fort Knox, KY intended for those who are interested in ROTC but have missed one or more semesters of military science. This course has four phases intended to develop and hone individual and collective skills. The first phases deal with military customs and courtesies,
wear of uniforms and drill and ceremony. The second phase deals with adventure training, obstacle course, hand grenades/weapons, water survival etc. The third phase deals with tactics and military leadership, and the final phase combines all elements into a practical exercise. Travel will be paid by the government.

Credits: 2
Prerequisites: Students must have prior consent from the Professor of Military Science to attend the course.
Notes: S/F grading only.

**MIL 264 - US Military History 1770 to Present**
US Military History focuses on the student’s ability to analyze military leadership and develop awareness of the lineage and heredity between today’s military and the military of the past. Students are provided an examination/evaluation of the Strategic, Operational, and Tactical levels of the US Military during conflict as they relate to the nine principles of war.

Credits: 2

**MIL 301 - Leadership in Small Unit Operations**
Includes current tactical doctrine as applied to small unit leadership with special emphasis on those leadership skills required for an ROTC cadet to be successful at the Army ROTC Leadership Development and Assessment course.

Credits: 3
Prerequisites: Completion of Basic Training, Leadership Training Camp or the first two years of ROTC and consent of instructor.

**MIL 301L - Advanced Military Science Lab and Physical Training I**
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 301 Lecture. Hands-on lab focusing on military leadership, planning and execution of platoon and squad level tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.

Credits: 1
Corequisites: MIL 301

**MIL 302 - Advanced Leadership Development**
Continuation of MIL 301. Includes current tactical doctrine as applied to small unit leadership with special emphasis on those leadership skills required for an ROTC cadet to be successful at the Army ROTC Advanced Camp.

Credits: 3
Prerequisites: MIL 301 and consent of instructor.

**MIL 302L - Advanced Military Science Lab and Physical Training II**
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 302 Lecture. Hands-on lab focusing on military leadership, planning and execution of platoon and squad level tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.

Credits: 1
Corequisites: MIL 302

**MIL 304 - Advanced Topics in Leadership**
Directed reading and research in contemporary military issues oriented towards a student’s transition from cadet to commissioned officer.

Credits: 2
Prerequisites: Consent of instructor.
May be repeated twice for credit.

**MIL 350 - Cadet Leadership Course**
This is the US Army ROTC’s capstone training event held at Fort Knox, KY with the purpose of training Cadets to Army standards, develop leadership skills, and to evaluate officer potential. The 31 day course starts with individual training and leads to collective training, building from simple to complex tasks.

Credits: 2
Prerequisites: MIL 301 and MIL 302.
Notes: S/F grading only.
MIL 401 - Adaptive Leadership
Contemporary military policy and related subjects of topical military interest, military law, the military justice system, courts-martial, personal ethics and the role of the junior officer.
Credits: 3
Prerequisites: Consent of instructor.

MIL 401L - Advanced Military Science Lab and Physical Training III
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 401 Lecture. Hands-on lab focusing on military leadership, battalion staff planning and training development for the execution of platoon and squad level tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.
Credits: 1
Corequisites: MIL 401

MIL 402 - Leadership in a Complex World
Continuation of contemporary military policy and related subjects of topical military interest, including military law, the military justice system, courts-martial, personal ethics and the role of the junior officer.
Credits: 3
Prerequisites: MIL 401 and consent of instructor.

MIL 402L - Advanced Military Science Lab and Physical Training IV
Practicum in those skills taught in conjunction with classroom instruction given during the MIL 402 Lecture. Hands-on lab focusing on military leadership, battalion staff planning and training development for the execution of platoon and squad level tactics, movement formations, and land navigation. Lab required every semester in conjunction with the appropriate military science class.
Credits: 1
Prerequisites: MIL 402
Civil and Environmental Engineering and Construction

The Department of Civil and Environmental Engineering and Construction offers rigorous academic programs leading to degrees in Civil Engineering and Construction Management. Civil Engineering involves the planning, analysis and design, construction, operation, and stewardship of the world’s structures and infrastructure. Civil Engineers design and construct buildings, bridges, highways, dams, water and wastewater treatment facilities, and other public and private works essential to civilized life in a modern society. Civil Engineers apply modern and sophisticated tools to plan and design large-scale systems for the public good, as well as select components and materials employed in these systems. Civil Engineers work primarily in teams, in a broad range of business models and as public servants. The Civil Engineering curriculum provides graduates with the skills needed to become successful, innovative and socially responsible Civil Engineers. The Construction Management curriculum offers courses in construction science and management that provide students with the necessary education to enter a wide range of professional positions in the construction industry or advanced degree programs. The program stresses a sound educational background in construction science to support the management decision-making capability required in the field.

Accredited by the:
Northwest Commission on Colleges and Universities, www.nwccu.org
Engineering Accreditation Commission of ABET, http://www.abet.org

Undergraduate Majors
Bachelor of Science in Engineering-Civil Engineering
Bachelor of Science in Construction Management

Mission
It is the mission of the department to produce competent, ethical, and socially responsible graduates develop and advance relevant knowledge, and serve the community and the professions of Civil Engineering and Construction Management.

Goals
The goals of the department's accredited baccalaureate programs are to:

- Prepare graduates for the lifelong practice of civil engineering and construction management.
- Meet educational requirements for professional licensure in civil engineering and professional certification in construction management.
- Provide graduates with solid academic preparation for graduate study.

Civil Engineering Program—Educational Objectives
The objectives of the Civil Engineering undergraduate degree program are to prepare graduates who can perform at the entry level in civil engineering practice so that, some years after graduation, they can become licensed professionals having responsibility for the planning, design, implementation, operation, continuous improvement and stewardship of civil engineering structures and infrastructure. Graduates will have the skills and tools for life-long learning, continuing professional development, and pursuit of advanced degrees.
Measurable Program Outcomes

Civil engineering graduates will have attained the following outcomes:

1. an ability to apply knowledge of mathematics through differential equations, calculus-based physics, chemistry, and at least one additional area of science, and engineering;
2. an ability to design and conduct civil engineering experiments, as well as to analyze and interpret the resulting data;
3. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
4. an ability to function on multidisciplinary teams;
5. an ability to identify, formulate, and solve engineering problems;
6. an understanding of professional and ethical responsibility;
7. an ability to communicate effectively;
8. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
9. a recognition of the need for, and an ability to engage in life-long learning;
10. a knowledge of contemporary issues;
11. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
12. an ability to apply knowledge of four technical areas appropriate to civil engineering;
13. an ability to design a system, component, or process in more than one civil engineering context;
14. an ability to explain basic concepts in management, business, public policy, and leadership;
15. an ability to explain the importance of professional licensure.

Technical Areas:

The CEE Department has four required technical areas. The areas and the required course work in each respective area are:

1. Environmental/Water Resources Engineering — ME 242, CEE 367, CEE 413, CEE 450.

Additionally, four technical elective courses are required in at least two technical areas, with a minimum of two courses in one area. The technical electives available in each technical area are:


In addition to the courses identified above, students may take other elective courses such as computer applications, project management, construction engineering, and others. CEE 468 may be counted as an elective in Transportation Engineering, Environmental Engineering, or Geotechnical Engineering if a project is undertaken in that area. CEE 491 Independent Study courses and CEE 495 Special Topics courses will be categorized based on their content.
Construction Management Program—Educational Objectives
The Construction Management Program emphasizes course work in construction management, engineering, business and management, and mathematics and science.

Measurable Program Outcomes
Construction management graduates will have attained the following outcomes:

1. an ability to apply contemporary knowledge in project estimating, planning, scheduling and control;
2. an ability to apply contemporary knowledge of construction science;
3. an ability to state-of-the-art skills in construction computer applications;
4. an ability to define and solve problems;
5. an ability to communicate effectively;
6. an ability to function on multidisciplinary teams;
7. an ability to employ sound interpersonal and leadership skills
8. an understanding of professional and ethical responsibility;
9. an ability to apply contemporary knowledge of risk management, safety, litigation and documentation;
10. understanding of professional customer service and quality a recognition of the need for, and an ability to engage in life-long learning;
11. a knowledge of contemporary issues.

Technical Areas:
The program prepares the student for professional practice as a construction manager or other professional construction-related positions. Prepares the student for graduate course work in construction management.

Admission to the Major
General admission follows college requirements. Students transferring from other universities or from other colleges within UNLV who have GPAs of between 2.00 and 2.50 will be admitted on probation and considered to be pre-major students. Admission and transfer policies are described in the College of Engineering section.

Department Policies
1. Regardless of catalog of graduation, students must satisfy prerequisite and corequisite course requirements as specified in the most recent Undergraduate Catalog.
2. All required and elective courses in engineering, mathematics, science, business, computer science, and English must be completed with a grade of C or better. Prerequisite courses must be completed with a grade of C or better before taking the next course. Students must complete all pre-major courses before promotion to advanced standing. Promotion to advanced standing requires a minimum GPA of 2.00 and a grade of C or better in all courses specified in No. 2 above.
3. All Civil Engineering majors must take the Discipline-Specific Fundamentals of Engineering Examination in Civil Engineering within one year prior to anticipated date of graduation. Students must register for CEE 499, one-credit, during the semester in which they plan to take the examination.
4. Civil Engineering students should register for CEE 498, Civil Engineering Capstone Design, in their last semester prior to anticipated date of graduation. To verify eligibility and permit registration for Civil Engineering Capstone Design, students must submit a completed graduation application prior to the start of instruction in their penultimate semester.
5. All Construction Management majors must take the American Institute of Constructors Qualification Examination (COE) Level I—Construction Fundamentals as part of CEM 455 within one year prior to anticipated date of graduation. A good faith effort on the exam is required.
Construction Management Major (BS)

Construction Management Major-
Bachelor of Science (BS)

Please see the UNLV Howard R. Hughes College of Engineering web page at www.unlv.edu/engineering for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-construction-management-management.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at www.engineering.unlv.edu/advising.

Accreditation

Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - Accreditation Board for Engineering and Technology www.abet.org

Learning Outcomes

1. Graduates have a fundamental grounding in mathematics, physics, and statistics.
2. Graduates have a strong grounding in business (business, law, economics, engineering economics, and management).
3. Graduates have the ability to communicate effectively in written format and to provide professional presentation appropriate to the situation and audience.
4. Graduates have the ability to use modern construction management tools in construction management practice.
5. Graduates are aware of basic principles of ethical and professional conduct in providing for safety and health to construction practice.
6. Graduates fulfill a broad construction management curriculum to include required courses in construction management and construction science.

University Graduation Requirements

- Please see Graduation Policies for complete information

Construction Management Requirements - Total: 122-125

General Education Requirements - Subtotal 40-43 Credits

General Education Requirements required to complete in the Pre-Major;

First-Year Seminar, English, Second-Year Seminar, Humanities (distribution requirement)
Mathematics, Social Sciences (distribution requirement).

General Education Requirements required to complete in the Pre Major or in Advanced Standing;


First-Year Seminar - Credits: 2-3

(See note 4 below)

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

(see note 5 below)

Constitutions - Credits: 4-6

Recommended courses:
- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: 7

MATH 181 - Calculus I
STAT 152 - Introduction to Statistics

Distribution Requirements - Credits: 18

Please see Distribution Requirement for more information.

- **Humanities: 6 Credits**
  - COM 101 - Oral Communication and either
  - PHIL 242 - Ethics For Engineers and Scientists (see note 5 below) or
  - PHIL 249 - Environmental Ethics

- **One course in Fine Arts: 3 credits**

- **Social Science: 9 credits**
  - ECON 190 - Global Economics (see notes 1 & 3 below)
  - CEE 307 - Engineering Economics (see notes 2 & 3 below)
  - PSY 101 - General Psychology or SOC 101 - Principles of Sociology

- **Life and Physical Sciences and Analytical Thinking:**
  - Automatically satisfied by Major requirement

Multicultural and International

International - ECON 190 - Global Economics - (see note 3 below)

Multicultural - Fine Arts course to satisfy Multicultural Requirement

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - Construction Management Major - Subtotal: 82 Credits

Pre-Major Courses - Credits: 22

**Business - Credits: 3**
- ECON 102 - Principles of Microeconomics

**Sciences - Credits: 8**
- PHYS 151 - General Physics I
- PHYS 151L - General Physics I
- PHYS 152 - General Physics II
- PHYS 152L - General Physics II

**Construction - Credits: 11**
- CEM 100 - Fundamentals of Construction Management
- CEM 250 - Construction Materials and Methods
- CEE 121 - Elementary Surveying
- CEE 301 - CAD Tools for Civil Engineering Design

Other Required Courses (can be taken as Pre-Major or Advanced Standing) - Credits: 17

**Business - Credits: 9**
- ACC 201 - Financial Accounting
- BLW 302 - Legal and Ethical Environment of Business
- MGT 301 - Principles of Management and Organizational Behavior

**Construction Management Courses - Credits: 8**
- CEM 253 - Quantity Surveying and Document Analysis
- CEM 253L - Quantity Surveying and Document Analysis
- CEM 270 - Construction Engineering Mechanics
- CEM 301 - Construction Safety

**Advanced Standing Courses - Credits: 43**
- CEM 330 - Soils and Foundations for Construction
- CEM 350 - Facility Systems Design and Construction I
- CEM 351 - Facility Systems Design and Construction II
- CEM 370 - Steel and Wood Design in Construction
- CEM 372 - Concrete Design in Construction
- CEM 432 - Temporary Construction Structures
- CEM 450 - Construction Field Inspection
Construction Management

CEM 100 - Fundamentals of Construction Management
Overview of construction industry roles, responsibilities, and risks from perspectives of owners, constructors, designers, financial institutions, and governmental agencies. Study of construction process techniques and applications. Credits: 3

CEM 150 - Fundamentals of Construction Science
Introduction to engineering problem solving applied to construction science. Fundamental topics include units, engineering analysis, early preliminaries of statics, and the built environment from a mechanics perspective emphasizing construction science. Credits: 3

Corequisites: PHYS 151/PHYS 151L.
Prerequisites: MATH 181 or higher with a grade of C or better.

CEM 250 - Construction Materials and Methods
Construction materials and components; materials specifications, descriptions, and usage; construction techniques, and optimal economic selection. Sustainable construction aspects considered. Credits: 4

Corequisites: CEM 250L, PHYS 151 and PHYS 151L or PHYS 181 and PHYS 181L.

CEM 253 - Quantity Surveying and Document Analysis
Quantity take off and comprehension, understanding, and critical analysis of documents from engineers, architects, other design professionals, governmental agencies, vendors, suppliers, and other contractors. Credits: 3

Prerequisites: CEM 100 and CEM 250. All prerequisite courses must be completed with a grade of C or better.
CEM 253L - Quantity Surveying and Document Analysis
Quantity take off and comprehension, understanding, and critical analysis of documents from engineers, architects, other design professionals, governmental agencies, vendors, suppliers, and other contractors.
Credits: 3
Prerequisites: CEM 100 and CEM 250.

CEM 270 - Construction Engineering Mechanics
Basic principles of engineering mechanics for constructors. Vectors, static analysis, stress, strain, Mohr’s circle, beams, columns and trusses are covered. Computer applications.
Credits: 3
Prerequisites: CEM 250 must be completed with a grade of C or better.
MATH 181 and (PHYS 151 / PHYS 151L or PHYS 180 /PHYS 180L); All prerequisites must be completed with a grade of C or better.

CEM 300 - Construction Practicum I
Supervised internship with one of a variety of industry organizations, including owners, contractors, designers. suppliers/manufacturers, government entities, etc. Minimum 10,000 word practicum report required with oral presentation before supervising faculty member(s).
Credits: 1
Corequisites: CEM 301.
Prerequisites: CEE 121, CEM 253, CEM 253L, CEM 270, ACC 201. Prerequisites must be completed with a grade of C or better. Advanced Standing required.
Notes: S/F grading only

CEM 301 - Construction Safety
Field of construction safety covering OSHA safety, health and environmental challenges for owners, contractors, subcontractors, and construction workers. Covers zero-injury techniques.
Credits: 2
Prerequisites: CEM 100, CEM 250, CEM 270. Prerequisites must be completed with a grade of C or better. Advanced Standing required.

CEM 330 - Soils and Foundations for Construction
Introduction to basic concepts of soils and foundations including compaction, compressibility, settlement, shear strength, and site investigations. Problem soils and solutions. Types and systems of foundations, bearing capacity, sheeting, and braced excavations.
Credits: 3
Prerequisites: CEM 270 or CEE 370 or ME 302, CEM 250. Prerequisites must be completed with a grade of C or better. Advanced Standing required.

CEM 350 - Facility Systems Design and Construction I
Introduction to mechanical systems for facilities including HVAC systems, boilers, chillers, air-handling units, fire protection, piping, and plumbing systems. Sustainable/green construction concepts. Energy conservation. Detailed knowledge to analyze needs, scope, design and construction of these systems as well as address design-construction integration issues.
Credits: 3
Prerequisites: CEM 250, PHYS 152/PHYS 152L or PHYS 182/PHYS 182L. Prerequisites must be completed with a grade of C or better. Advanced Standing required.

CEM 351 - Facility Systems Design and Construction II
Introduction to electrical equipment and electrical systems for facilities including power, wiring, lighting, controls, automation, security, and life safety systems. Sustainable/green construction concepts. Energy conservation. Detailed knowledge to analyze needs, scope, design and construction of these systems as well as address design-construction integration issues.
Credits: 3
Prerequisites: CEM 250, PHYS 152 PHYS 152L or PHYS 182 PHYS 182L. Prerequisites must be
completed with a grade of C or better. Advanced Standing required.

**CEM 370 - Steel and Wood Design in Construction**
Credits: 3
Prerequisites: CEM 270 must be completed with a grade of C or better. Advanced Standing required.

**CEM 372 - Concrete Design in Construction**
Credits: 3
Prerequisites: CEM 270 must be completed with a grade of C or better. Advanced Standing required.

**CEM 400* - Construction Practicum II**
Supervised internship with one of a variety of industry organizations, including owners, contractors, designers, suppliers/manufacturers, government entities, etc. Minimum 10,000 word practicum report required with oral presentation before supervising faculty member(s).
Credits: 1
Corequisites: CEE 307.
Prerequisites: CEM 300, CEM 330, CEM 351, CEM 370, CEM 372, MGT 301, BLW 302. Prerequisites must be completed with a grade of C or better. Advanced Standing required.
Notes: S/F grading only

**CEM 432 - Temporary Construction Structures**
Analysis, design, and construction of temporary structures including formwork, false work, shoring, rigging, and access units. Cost analysis. Computer analysis applications. Safety consideration.
Credits: 3
Prerequisites: CEM 330 or CEE 334, CEM 370 or CEE 381, CEM 372 or CEE 480. Prerequisites must be completed with a grade of C or better. Advanced Standing required.
Notes: This course is crosslisted with CEM 632. Credit at the 600-level requires additional work.

**CEM 450 - Construction Field Inspection**
Construction field inspection at project sites and vendor surveillance. Construction codes including IBC/IRC, IPC, IMC, and NEC. Standards including ACI, AISC, ANSI, ASTM, and AWS. Quality assurance/quality control concepts/development, techniques, analysis, enforcement and documentation.
Credits: 3
Prerequisites: CEM 330 or CEE 334, CEM 370 or CEE 381. Prerequisites must be completed with a grade of C or better. Advanced Standing required.

**CEM 451/451L - Construction Estimating**
Credits: 4
Corequisites: CEM 454.
Prerequisites: CEM 253, CEE 307. Prerequisites must be completed with a grade of C or better. Advanced Standing required.
Notes: This course is crosslisted with CEM 651. Credit at the 600-level requires additional work.

**CEM 452/452L - Construction Cost Control**
Credits: 3
Prerequisites: CEE 307, ACC 201. Prerequisites must be completed with a grade of C or better. Advanced Standing required.
CEM 453/453L - Construction Scheduling
Credits: 3
Corequisites: CEM 451/451L.
Prerequisites: Advanced Standing required.

CEM 454 - Heavy Construction Methods and Equipment
Characteristics, capabilities, limitations, uses, and selection techniques for heavy construction methods and equipment. Process planning, simulation, fleet operations, and maintenance programs. Field trip(s) where appropriate.
Credits: 3
Prerequisites: CEM 330 or CEE 334, CEE 307 and consent of instructor. Prerequisites must be completed with a grade of C or better. Advanced Standing required.
Notes: This course is crosslisted with CEM 654. Credit at the 600-level requires additional work.

CEM 455 - Construction Management Practice
Direction and operation of construction organizations with examination of general contracting, design-build, and construction management methods. Synthesis of project management concepts, applications, and limitations through case studies and semester project.
Credits: 3
Prerequisites: CEM 451/451L, CEM 452/452L, CEM 453/453L. Prerequisites must be completed with a grade of C or better. Advanced Standing required.

CEM 457 - Project Management
Principles and application for effective project planning including finance, economic decisions making, risk management, team alignment, and pre-project planning processes and tools.
Credits: 3
Prerequisites: MATH 132 or STAT 152 or equivalent, senior standing. Prerequisites must be completed with a grade of C or better. Advanced Standing required.

CEM 458 - Design-Build for Construction Management
Design-build techniques and concepts for a variety of project types understanding the technical aspects associated with design/construction of these projects as well as the financial and management aspects required for a successful completion. Design-construct team building. Liability issues.
Credits: 3
Prerequisites: CEM 100 or CEM 457 or CEE 409. Prerequisites must be completed with a grade of C or better. Advanced Standing required.

CEM 459 - Quantitative Methods in Project Management
Quantitative analysis techniques in project management. Introduction to quantitative decisions making, decision tree, simulation, linear programming, hypothesis testing, regression analysis, etc.
Credits: 3
Prerequisites: CEM 457 with a grade of C or better, or senior standing in major. Advanced Standing required.

CEM 470 - Construction Automation
Automation applications, robotics, and analysis for construction, including alignment, materials handling, and installation units. Location analysis from project site to fabrication shop. Repeatability and training considerations. Environmental influences.
Credits: 3
Prerequisites: CEM 454 with a grade of C or better. Advanced Standing required.
CEM 480 - Sustainable Construction
Credits: 3
Prerequisites: Laboratory science course, consent of instructor.
Notes: This course is crosslisted with CEM 680. Credit at the 600-level requires additional work.

CEM 482 - Hazardous Waste Construction Operations
Credits: 3
Prerequisites: CEM 454 with a grade of C or better. Advanced Standing required.

CEM 484 - Construction Site Water Management
Management of water at construction sites.
Credits: 3
Prerequisites: CEM 330 with a grade of C or better. Advanced Standing required.

CEM 485 - Construction Law and Contracts
Credits: 3
Prerequisites: CEM 453/453L with a grade of C or better. Advanced Standing required.
Notes: This course is crosslisted with CEM 685. Credit at the 600-level requires additional work.

CEM 493 - Independent Study
Independent study of a selected construction topic.
Credits: 1-3
Prerequisites: Consent of instructor. Advanced Standing required.

CEM 495 - Special Topics in Construction Management
Experimental and other topics which may be of current interest in construction management.
Credits: 1-4
Prerequisites: Consent of instructor. Advanced Standing required.
Notes: Topics and credits to be announced. This course is crosslisted with CEM 695. Credit at the 600-level requires additional work. May be repeated to a maximum of eight credits.
Civil Engineering Major (BSE)

Civil Engineering Major - Bachelor of Science in Engineering (BSE)
Please see the UNLV Howard R. Hughes College of Engineering web page at www.unlv.edu/engineering for information about department programs, faculty and facilities. Degree worksheets and 4/5 year plans for the major are available at www.unlv.edu/degree/bse-civil-engineering

The Civil Engineering curriculum covers five technical areas of Civil Engineering. The areas, and the required course work in each respective area, are:

- Environmental/Water Resources Engineering — CEE 250, CEE 367, CEE 413, CEE 450.
- Geotechnical Engineering — CEE 334, CEE 346.
- Structural and Materials Engineering — CEE 346, CEE 370, CEE 381, CEE 480.
- Transportation Engineering — CEE 346, CEE 362.
- Construction Engineering — CEE 340.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at www.engineering.unlv.edu/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - Accreditation Board for Engineering and Technology www.abet.org

Program Educational Objectives
The educational objectives of the Civil Engineering undergraduate degree program are:

- Graduates will meet the expectations of employers of civil engineers
- Qualified graduates will be capable of pursuing advanced study
- Graduates will pursue leadership positions in their profession and/or communities

Student Learning Outcomes
1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

University Graduation Requirements
Please see Graduation Policies for complete information

Civil Engineering Degree Requirements - Total: 122-134 Credits

General Education Requirements - Subtotal: 27-39 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
(see note 1 below)
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3
(see note 2 and note 8 below)
Constitutions - Credits: 4-6
(see note 2 below)

Recommended courses:
- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Mathematics - Fulfilled by Pre-Major Requirements

Distribution Requirements - Credits: 15

Please see Distribution Requirement for more information.
(see note 3 below)

- Humanities and Fine Arts: 9 credits
  - PHIL 242 - Ethics for Engineers and Scientists (see note 8 below)
  - COM 101 - Oral Communication
  - One course in Fine Arts - 3 credits

- Social Science: 6 credits
  - CEE 307 - Engineering Economics
  - One additional Social Science course from an area other than economics

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International (0-6 credits)
(see note 2 below)
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not
meet the multicultural and international requirements simultaneously. Students are encouraged to use "double dipper" courses with their fine arts and social science requirements. For the list of approved multicultural and international courses, go to:
https://www.unlv.edu/provost/multicultural-requirements.

Civil Engineering Curriculum Pre-Major Courses - Credits: 27

- Mathematics - Credits: 8
  - MATH 181 - Calculus I
  - MATH 182 - Calculus II

- Sciences - Credits: 12
  - CHEM 121A - General Chemistry I
  - CHEM 121L - General Chemistry Laboratory I
  - PHYS 180 - Physics for Scientists and Engineers I
  - PHYS 180L - Physics for Scientists and Engineers Lab I
  - GEOL 101 - Exploring Planet Earth

- Engineering - Credits: 7
  - CEE 241 - Statics
  - CEE 370 - Engineering Mechanics of Deformable Bodies

Major Requirements - BS in Civil Engineering - Subtotal: 68 Credits

Other Required Courses (can be taken as Pre-Major or Advanced Standing) - Credits: 14

- Engineering - Credits: 10
  - CEE 121 - Elementary Surveying
  - CEE 301 - CAD Tools for Civil Engineering Design
  - ME 242 - Dynamics
  - CEE 250 - Sustainability in Civil and Environmental Engineering

- Mathematics - Credits: 4
  - MATH 283 - Calculus III

Advanced Standing - Credits: 54
- Mathematics, Statistics - Credits: 6
- MATH 431 - Mathematics for Engineers and Scientists I
- STAT 463 - Applied Statistics for Engineers

Civil Engineering Requirements - Credits: 36
- CEE 334 - Soil Mechanics
- CEE 340 - Introduction to Construction Engineering
- CEE 346 - Civil Engineering Materials
- CEE 362 - Transportation Engineering
- CEE 367 - Fluid Mechanics
- CEE 371 - Numerical Methods in Civil Engineering
- CEE 381 - Structural Analysis I
- CEE 413 - Water Resources Engineering I
- CEE 450 - Unit Operations and Processes in Environmental Engineering
- CEE 480 - Concrete Structure Design
- CEE 498 - Civil Engineering Capstone Design
- CEE 499 - Fundamentals of Engineering Examination Registration

Civil Engineering Electives - Credits: 12
CEE 400-level elective courses. (see notes 4, 5 and 6)
Students must take four technical elective courses from at least two technical areas, with a minimum of two courses in one area. Students must take at least two design-intensive courses, designated by *. The technical electives available in each technical area are:
- Construction — CEE 409, CEM 451/451L, CEM 453/453L
- Environmental/Water Resources Engineering — CEE 404*, CEE 406, CEE 407, CEE 451, CEE 452*, CEE 454, CEE 455*.
- Geotechnical Engineering — CEE 410, CEE 432, CEE 434, CEE 435*, CEE 436.
- Transportation Engineering — CEE 410, CEE 463, CEE 464, CEE 466*, CEE 467.

In addition to the courses identified above, students may take elective courses other areas such as computer applications and geographic information systems. CEE 468 may be counted as an elective in Transportation Engineering, Environmental Engineering, or Geotechnical Engineering if a project is undertaken in that area. CEE 491 Independent Study courses and CEE 495 Special Topics courses will be categorized based on their content.

Total Credits: 122-134

Notes
1. Must take as a Civil Engineering Pre-Major.
2. Can be taken as a Civil Engineering Pre-Major or in Advanced Standing.
3. UNLV requires six credits of humanities, three credits of fine arts and six credits of social science for College of Engineering students. Six of these 15 credits must be taken before the student can achieve Advanced Standing status. Of the remaining 9 credits, CEE 307 must be taken after achieving Advanced Standing. The remaining six credits may be taken either as pre-program or advanced standing.
4. CEE 491 may not replace a required course in the curriculum, may not count for more than three elective credits toward the degree, and may not be used for work experience.
5. Civil engineering elective courses are required in at least two technical areas with a minimum of two courses in one area. CEE 444 should be taken as one of the technical electives if a student elects the structural technical area.
6. Three credits of Cooperative Training (CEE 225, CEE 325, and CEE 425 may be used in place of one three-credit civil engineering elective. No more than one of these credits may be CEE 225.
7. To earn required credits for graduation, transfer students lacking laboratory credit for any CEE laboratory course (CEE 334, 346, 367 or 450), must, for each lab course in which they lack credit, register simultaneously for both the corresponding zero-credit laboratory course and for a
one-credit CEE 491 independent study course.

8. PHIL 242 will simultaneously satisfy both a humanities requirement and the Second Year Seminar requirement for students obtaining a degree from the College of Engineering that requires more than 120 credits.

Civil Engineering

CEE 121 - Elementary Surveying
Vertical and horizontal control methods: topographic and construction surveys, use of land survey equipment, note taking and graphical communication. Applications to earthwork and highway alignment.
Credits: 2
Prerequisites: MATH 127 or MATH 128 or SAT 630 or higher OR ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better.

CEE 198 - Ethics and Professional Practice of Engineering
Oral communication, engineers’ code of ethics and other requirements for the professional practice of engineering studied through textbook material, oral communication workshops, professional society meetings, and journals
Credits: 1
Corequisites: ENG 101.

CEE 210 - Introduction to Civil Engineering Design
Introduction to design of civil engineering systems, components, and processes including steps in problem solving, sustainability, relevant federal acts and laws, computer-based computational methods, and CAD design tools. Team projects with emphasis on technical communications.
Credits: 3
Corequisites: ENG 101 or ENG 101E OR SAT verbal score of 680 or higher OR ACT verbal score of 30 or higher, CEE 198.
Prerequisites: MATH 127 or MATH 128 or higher, or SAT math score of 630 or higher or ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better.

CEE 225 - Cooperative Training I
Introductory individual off-campus learning experiences in civil engineering. Students apply engineering concepts and theories in work-related settings. Minimum 200 supervised hours required. Progress reports required at least monthly. Final report and/or final poster required.
Credits: 1
Prerequisites: Sophomore standing in engineering. Prior approval of employer and department.
Notes: No more than one credit of CEE 225 may count towards the degree.
May be repeated to a maximum of 2 credits.

CEE 241 - Statics
Engineering analysis of concentrated and distributed force systems at equilibrium; analysis of structures, beams and cables, friction, virtual work, fluid statics, shear and moment diagrams.
Credits: 3
Prerequisites: PHYS 180, PHYS 180L, MATH 182. All prerequisites must be completed with a C or better.

CEE 250 - Sustainability in Civil and Environmental Engineering
Sustainability concepts applied to transportation, structural materials, construction, and water and wastewater systems. Air pollution, waste minimization, sustainable water resources, and green construction. Alternative energy sources, and contemporary issues that impact sustainability as it relates to safety, durability, economics, environmental, societal and health impacts.
Credits: 3
Prerequisites: CHEM 121A and CHEM 121L, MATH 181 ; All prerequisites must be completed with a C or better.
CEE 298 - Project Management and Professional Practice
Introduction to the activities of professional engineers. Through lectures, seminars by invited guests, and participation in organized activities outside the classroom, address civil engineering project management and other professional matters that affect engineering practice such as licensure, business, public policy, public administration, and contemporary issues.
Credits: 1
Prerequisites: CEE 198.

CEE 301 - CAD Tools for Civil Engineering Design
Introduction to CAD-based civil engineering design tools, including COGO, surveying, roadway and site layout, digital terrain modeling, and earthworks design software.
Credits: 2
Prerequisites: CEE 121

CEE 307 - Engineering Economics
Engineering economic analysis for the evaluation of technical alternatives and necessary economic trade-offs made in planning, designing, and operating engineering systems.
Credits: 3
Prerequisites: Completion of 30 credits (Sophomore standing) and MATH 181 with a grade of C or better.

CEE 325 - Cooperative Training II
Individual off-campus learning experiences in civil engineering. Students apply engineering concepts and theories in work-related settings. Minimum 200 supervised hours required. Progress reports required at least monthly. Final report and/or final poster required. A combined maximum of three credits in CEE 225 and CEE 325 may count towards the degree.
Credits: 1
Prerequisites: Junior or senior standing in engineering. Prior approval of employer and department. May be repeated to a maximum of 3 credits.

CEE 334 - Soil Mechanics
Elementary soil mechanics theory. Physical and mechanical properties of soils. Shear strength, consolidation, earth pressure. Laboratory testing - Atterberg Limits, compaction, shear, unconfined compression, permeability, sampling, and in-situ testing.
Credits: 4
Prerequisites: CEE 370, or ME 302 and ME 302L, GEOL 101 and Advanced Standing; All prerequisite courses must be completed with a grade of C or better.

CEE 340 - Introduction to Construction Engineering
Introduction to planning, design, and management techniques of construction engineering projects.
Credits: 3
Prerequisites: Advanced Standing.

CEE 341 - Building Structures I
Theory and basic elements of simple structural systems for architects, designers, and construction managers. Does not satisfy program requirements for civil/mechanical degrees.
Credits: 3
Prerequisites: Advanced Standing in Engineering.

CEE 346 - Civil Engineering Materials
Properties and uses of aggregates, Portland cement concrete, bituminous materials, ferrous and non-ferrous metals, and wood for buildings, highways and other civil engineering works.
Credits: 3
Corequisites: STAT 463 or equivalent.
Prerequisites: CEE 370 or ME 302, Advanced Standing. All prerequisite courses must be completed with a grade of C or better.

CEE 362 - Transportation Engineering
Design, operation, objectives, characteristics, and social, environmental and economic relations of transportation systems including water, air, and land facilities.
Credits: 3
Prerequisites: Advanced standing in Civil
Engineering. All prerequisite courses must be completed with a grade of C or better.

**CEE 367 - Fluid Mechanics**
Introduction to fluid properties, statics, and fluid dynamics, development and application of fundamental equations for the study of external and internal flows, compressible flows, dimensional analysis, and turbomachinery. Laboratory exercises on the dynamics and statics of fluids.
Credits: 4
Corequisites: STAT 463 or equivalent.
Prerequisites: ME 242; MATH 283 and engineering major. All prerequisite courses must be completed with a grade of C or better.

**CEE 367L - Fluid Mechanics Laboratory**
Laboratory designed to familiarize the student with the basic properties and behavior of incompressible and compressible fluids.
Credits: 0
Corequisites: Equivalent to CEE 367 lecture or CEM 460.
Prerequisites: Admission to civil, electrical or mechanical engineering major.

**CEE 370 - Engineering Mechanics of Deformable Bodies**
Concepts of stress and strain, transformation of stress and strain, Mohr's circle, engineering properties of materials, axially loaded members, torsion of circular members, bending of beams, buckling of columns, combined loading, thin-walled pressure vessels.
Credits: 4
Prerequisites: C or better in CEE 241.

**CEE 370L - Engineering Mechanics of Deformable Bodies Laboratory**
Strain gage attachment and calibration, tensile testing of metals and non-metals, elastic constants, beam deflection and failure, torsion testing, column stability, and bolted connection testing.

Credits: 0
Corequisites: CEE 370.

**CEE 371 - Numerical Methods in Civil Engineering**
Application of numerical techniques and tools to solve a variety of engineering problems with focus on civil and environmental engineering.
Credits: 3
Prerequisites: MATH 283, PHYS 180 and PHYS 180L. All prerequisites must be completed with a grade of C or better.

**CEE 381 - Structural Analysis I**
Principles and techniques of structural mechanics and application to analysis of engineering structures.
Credits: 3
Prerequisites: MATH 283 and either CEE 370, or or ME 302 & ME 302L, advanced standing; All prerequisite courses must be completed with a grade of C or better.

**CEE 404 - 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.
Credits: 3
Prerequisites: Advanced Standing; CEE 367. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 604. Credit at the 600-level requires additional work.

**CEE 406 - 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.
Credits: 3
Prerequisites: Advanced Standing; CEE 413. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 606. Credit at the 600-level requires additional work.

**CEE 407 - 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
Prerequisites: CEE 413 and CEE 450.
Notes: This course is crosslisted with CEE 607. Credit at the 600-level requires additional work.

**CEE 409 - Engineering Project Management**
Engineering aspects of contracts, labor law, specification development, and cost estimating. Project scheduling and cost using critical path methods.
Credits: 3
Prerequisites: CEE 307, STAT 463 or equivalent.
Notes: This course is crosslisted with CEE 609. Credit at the 600-level requires additional work.

**CEE 410 - Highway Construction Materials**
Composition, properties, and production of Portland cement, concrete, bituminous materials, and bituminous mixtures.
Credits: 3
Prerequisites: Advanced Standing; CEE 346. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 610. Credit at the 600-level requires additional work.

**CEE 413 - Water Resources Engineering I**
Credits: 3
Prerequisites: Advanced Standing; CEE 367. All prerequisite courses must be completed with a grade of C or better.

**CEE 423 - Engineering Surveys**
Solar observations, public land system, public land surveys, mineral surveys, vertical and horizontal curves, electronic distance measurements. Utilization of computers in survey calculations.
Credits: 3
Prerequisites: Advanced Standing; CEE 121, CEE 301. All prerequisite courses must be completed with a grade of C or better.

**CEE 425 - Cooperative Training III**
Continuation of off-campus individual learning experiences in Civil Engineering. Students continue to apply engineering concepts and theories in work-related settings. Students in the Co-op Program(s) are required to make a written engineering report on the work they do.
Credits: 1
Prerequisites: Junior or senior standing in engineering.

**CEE 432 - 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.
Credits: 3
Prerequisites: Advanced Standing; GEOL 101, CEE 370 or ME 302/ME 302L. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 632. Credit at the 600-level requires additional work.

**CEE 434 - 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.
Credits: 3
Prerequisites: Advanced Standing CEE 334. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 634. Credit at the 600-level requires additional work.

**CEE 435 - Foundations Engineering**
Site investigations, footings, slope stability, rock and soil foundations, piles.
Credits: 3
Prerequisites: Advanced Standing CEE 334. All prerequisite courses must be completed with a grade of C or better.

**CEE 436 - 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.
Credits: 3
Prerequisites: PHYS 180 and PHYS 181, or PHYS 151 and PHYS 152; advanced standing.
Notes: This course is crosslisted with CEE 636. Credit at the 600-level requires additional work.

**CEE 444 - 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.
Credits: 3
Prerequisites: Advanced Standing; CEE 346, CEE 381. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 644. Credit at the 600-level requires additional work.

**CEE 450 - Unit Operations and Processes in Environmental Engineering**
Credits: 4
Prerequisites: Advanced Standing; CHEM 121A and CHEM 121L, CEE 367, MATH 431. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 650. Credit at the 600-level requires additional work.

**CEE 451 - Environmental Water Chemistry and Analysis**
An engineering approach to equilibrium chemistry, including acid-base reactions, metal speciation, and oxidation-reduction reactions. Includes overview of the analysis of water and wastewater quality.
Credits: 3
Prerequisites: Advanced Standing; CHEM 121A and CHEM 121L must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 651. Credit at the 600-level requires additional work.

**CEE 452 - Air Pollution Control Fundamentals**
Credits: 3
Prerequisites: Advanced Standing; CHEM 121A, CHEM 121L, CEE 367, and MATH 431. The Engineering department does not require but recommends that ME 311 or ME 314 be taken prior to CEE 452. All prerequisite courses must be completed with a grade of C or better.
CEE 454 - Solid and Hazardous Wastes Engineering
Prerequisites: Advanced Standing; CHEM 121A and CHEM 121L, CEE 367 and MATH 431. The Engineering department does not require but recommends that ME 311 be taken prior to CEE 454. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 652. Credit at the 600-level requires additional work.

CEE 455 - Water Treatment Principles and Design
Principles and design of drinking water treatment processes. Topics include flocculation, sedimentation, filtration, disinfection, adsorption, ion exchange, and softening. Credits: 3
Corequisites: CEE 450.
Prerequisites: Advanced Standing; CHEM 121A and CHEM 121L, CEE 367, and CEE 450. All prerequisite courses must be completed with a grade of C or better.
Notes: Three hours lecture.

CEE 461 - Introduction to Railroad Transportation
Railway track, vehicle motion, signals and communications, railway track maintenance, railway operations, freight operation, passenger train operations. Credits: 3
Prerequisites: Advanced Standing; CEE 362. All prerequisite courses must be completed with a grade of C or better.

CEE 462 - Railroad Engineering
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. Credits: 3
Prerequisites: Advanced Standing; CEE 362. All prerequisite courses must be completed with a grade of C or better.

CEE 463 - Traffic Engineering
Studies in highway and traffic planning and principles of traffic operations. Credits: 3
Prerequisites: Advanced Standing; CEE 362 must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 663. Credit at the 600-level requires additional work.

CEE 464 - Airport Design
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. Credits: 3
Prerequisites: Advanced Standing; CEE 362. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 664. Credit at the 600-level requires additional work.

CEE 466 - Geometric Design of Highways
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. Credits: 3
Prerequisites: Advanced Standing; CEE 362 must be
completed with a grade of C or better.
Notes: This course is crosslisted with CEE 666. Credit at the 600-level requires additional work.

**CEE 467 - Computer Applications in Transportation Engineering**
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.
Credits: 3
Prerequisites: Advance Standing; CEE 362 must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 667. Credit at the 600-level requires additional work.

**CEE 468 - GIS Applications in Civil Engineering**
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.
Credits: 3
Prerequisites: Advanced Standing; CEE 301, and any one of: CEE 334, CEE 362, CEE 413, CEE 450. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 668. Credit at the 600-level requires additional work.

**CEE 470 - High Speed Rail**
High speed rail station, track, traction and power, rolling stock, signal and communication, traffic organization, passenger service, and maintenance.
Credits: 3
Prerequisites: Advanced Standing; CEE 362 must be completed with a grade of C or better.

**CEE 471 - Public Transportation Systems**
Analysis and evaluation of mass transit systems, and 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.
Credits: 3
Prerequisites: Advanced Standing; CEE 362 must be completed with a grade of C or better.

**CEE 476 - Earthquake Engineering for Structures**
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.
Credits: 3
Prerequisites: Advanced Standing; CEE 334 or CEE 432, CEE 444 or CEE 480. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 676. Credit at the 600-level requires additional work.

**CEE 477 - Design of Underground Structures**
Design of tunnels, shafts, and underground chambers in soil and hard rocks.
Credits: 3
Prerequisites: Advanced Standing CEE 432 must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 677. Credit at the 600-level requires additional work.

**CEE 478 - Applied Finite Element Analysis**
Introduction to the finite element method with computer applications to engineering problems in structural analysis, two- and three-dimensional solid mechanics and continuum.
Credits: 3
Prerequisites: Advanced Standing; MATH 431; CEE 370 or ME 302. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 678. Credit at the 600-level requires additional work.
CEE 480 - Concrete Structure Design
Credits: 3
Prerequisites: Advanced Standing; CEE 346, CEE 381. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 680. Credit at the 600-level requires additional work.

CEE 482 - Design of Timber Structures
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.
Credits: 3
Prerequisites: Advanced Standing; CEE 346, CEE 381. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with CEE 682. Credit at the 600-level requires additional work.

CEE 491 - Independent Study
Independent design project or study of a selected engineering topic.
Credits: 1-3
Prerequisites: Senior standing in engineering, or consent of instructor with departmental approval.
Notes: May not be used to replace a required course.
May be repeated up to a maximum of three credits.

CEE 495 - Special Topics
Outlet for experimental and other topics which may be of current interest.
Credits: 1-4
Prerequisites: Upper-division standing in engineering.
Notes: Topics and credits to be announced. May have a laboratory. This course is crosslisted with CEE 695. Credit at the 600-level requires additional work.
May be repeated once under different topic.

CEE 496 - Civil Engineering Professional Practicum
Engineering practicum to perform work, preferably related to civil engineering design, supervised by experienced professional, in an agency, company or institution doing civil engineering work. Practicum proposal must be approved by chair prior to starting of work. Student report approved by supervisor.
Credits: 0
Prerequisites: The course should be taken in a year prior to graduation and should be completed within that time period; approval of host firm and Department Chair.
Notes: S/F grading only.

CEE 498 - Civil Engineering Capstone Design
Capstone course to involve students in the design process from project planning through analysis, synthesis, evaluation, and recommendations. Team efforts and oral, written, and graphical communications.
Credits: 3
Prerequisites: Advanced Standing in Civil Engineering; All required CEE courses except CEE 499 and any one of CEE 413, CEE 450, or CEE 480 and consent of instructor. All prerequisite courses must be completed with a grade of C or better.

CEE 499 - Fundamentals of Engineering Examination Registration
Preparation for and completion of the Fundamentals of Engineering Civil Discipline-Specific Examination administered by the National Council of Examiners for Engineering and Surveying.
Credits: 0
Prerequisites: Advanced Standing; All required CEE courses except CEE 498 and any one of CEE 413, CEE 450, or CEE 480. All prerequisite courses must be completed with a grade of C or better.
Notes: S/F grading only.
Department of Computer Science

The Department of Computer Science offers courses and programs that provide students with a solid theoretical foundation as well as familiarity with several areas within experimental computer science. This solid foundation, combined with extensive hands-on application work, provides a balanced educational environment that prepares students for both the current employment market and advanced degree programs.

Accreditation
Northwest Commission on Colleges and Universities www.nwccu.org.

Undergraduate Majors
Bachelor of Science in Computer Science
Bachelor of Arts in Computer Science

Mission
The mission of the Department of Computer Science is to educate future computer scientists in academic programs that are competitive with those of the best schools in the country.

Program Objectives
The objectives of our undergraduate degree programs are to:
1. Provide students with the broad background skills necessary to learn, practice, and grow in computer science.
2. Provide students with the fundamental core and advanced knowledge of computer science.
3. Provide students with adequate skills for effective communication of computer science technicalities, both in written and oral forms.
4. Produce students who can use and practice computer science in various application areas.

Program Outcomes
Each computer science graduate will be able to:
1. Analyze problems, and to identify the computing and/or mathematical techniques appropriate to their solutions.
2. Apply design and development principles in the construction of software systems.
3. Apply computer science theory and mathematical models to comprehend the tradeoffs involved in various design choices.
4. Use current tools or techniques to implement and evaluate programs or computer-based systems.
5. Function effectively on a team to accomplish a common goal.
6. Communicate effectively with a range of audiences.
7. Understand the professional, ethical, legal, and security impacts of computing on individuals, organizations, and society.
8. Appreciate an application area of computing and recognize the need to engage in continuing professional development.

Additional information on the mission, goals and objectives of the School of Computer Science is available online at www.cs.unlv.edu.

Admission to the Major
Minimum GPA: 2.25
Admission and transfer policies as described in the College of Engineering section.

Department Policies
1. Grades of C (2.00) or higher are required in all immediate prerequisites of all engineering and computer science courses and in ENG 101 and 102.
2. Students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.
Computer Science Major (BS)

Computer Science Major - Bachelor of Science (BS)
Please see the UNLV Howard R. Hughes College of Engineering, Department of Computer Science web page at www.cs.unlv.edu for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-computer-science.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at www.engineering.unlv.edu/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - Accreditation Board for Engineering and Technology www.abet.org

Learning Outcomes
1. Analyze problems and identify the computing and/or mathematical techniques appropriate to their solutions
2. Apply design and development principles in the construction of software systems
3. Apply design and development principles in the construction of software systems
4. Use current tools or techniques to implement and evaluate programs or computer-based systems
5. Function effectively on a team to accomplish a common goal
6. Communicate effectively with a range of audiences
7. Understand the professional, ethical, legal, and security impacts of computing on individuals, organizations, and society
8. Appreciate an application area of computing and recognize the need to engage in continuing professional development

University Graduation Requirements
- Please see Graduation Policies for complete information

Computer Science Degree Requirements - Total 120 Credits

General Education Requirements - Subtotal 36-40 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 4
- MATH 181 - Calculus I

Distribution Requirements - Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - COM 101 - Oral Communication 3 credits
  - PHIL 422 - Advanced Logic 3 credits
  - One course in Fine Arts - 3 credits

- Social Science: 9 credits
  - One course each from three different fields

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BS in Computer Science - Subtotal: 80 Credits

Mathematics - Credits: 16
- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I
- MATH 351 - Discrete Mathematics II
- MATH 365 - Computational Linear Algebra
- STAT 411 - Statistical Methods I

Philosophy - Credits: 3
- PHIL 114 - Introduction to Symbolic Logic

Technical Writing - Credits: 3
- ENG 407B - Fundamentals of Technical Writing

Computer Science - Credits: 38
- CS 135 - Computer Science I
- CS 202 - Computer Science II
- CS 218 - Introduction to Systems Programming
- CS 219 - Computer Organization
- CS 301 - Social Implications of Computer Technology
- CS 302 - Data Structures
- CS 326 - Programming Languages, Concepts and Implementation
- CS 370 - Operating Systems
- CS 456 - Automata and Formal Languages
- CS 460 - Compiler Construction
- CS 472 - Software Product Design and Development I
- CS 477 - Analysis of Algorithms
- CpE 100 - Digital Logic Design I
- CpE 100L - Digital Logic Design I Laboratory

Electives - Credits: 4
Free electives to ensure that minimum total credits are 120.

Total Credits: 120

Optional Concentration Areas

Students who complete either the BS or the BA program in Computer Science may also pursue one of the following concentration areas by completing the listed courses with grades of B- or better:

Software Engineering - Credits: 12
- CS 457 - Database Management Systems
- CS 472 - Software Product Design and Development I
- CS 473 - Software Product Design and Development II
- CS 441 - Advanced Internet Programming
- CS 441L - Advanced Internet Programming Lab
**Computer Networks - Credits: 12**
- CS 370 - Operating Systems
- CS 445 - Internet Security
- CS 465 - Computer Networks I
  and either
- CS 466 - Computer Networks II
  or
- CS 470 - Networks and Distributed Systems

Information Assurance Concentration

**Information Assurance - Total Credits: 12**
- CS 443 - Information Assurance
- CS 445 - Internet Security
- CS 448 - Computer Security
and one of the following:
- CS 441 - Advanced Internet Programming
- CS 449 - Computer and Network Forensics
- CS 457 - Database Management Systems
- CS 465 - Computer Networks I

Completion of one of these concentration area will result in the awarding of a certificate to the student by the Department of Computer Science.

**Computer Science Minor**

**Required Courses - Total Credits: 27**
- CpE 100 - Digital Logic Design I
- CS 135 - Computer Science I
- CS 202 - Computer Science II
- CS 218 - Introduction to Systems Programming
- CS 219 - Computer Organization
- CS 302 - Data Structures

and nine additional credits of electives selected from CS courses numbered 300 or higher
  or
- MATH 466 - Numerical Methods I
  or
- MATH 467 - Numerical Methods II

**Information Technology Minor**

Information Technology (ITE) is comprised of a set of topics encompassing technologies in Human Computer Interaction (HCI), information management, programming, information assurance, and web systems.

*Subject to prior approval from Computer Science Department – Please see your College of Engineering Academic Advisor to discuss.

**Note 1:** Student to choose one course in their respective field of study.

**Note 2:** Students can elect either to register for CS 490 to study topics that prepare them for certification exams or to register for one of the pre-approved courses offered by College of Southern Nevada (CSN). The following is a list of pre-approved courses at CSN:
- CIT 211 Microsoft Networking I
- CIT 217 Security+
- CIT 263 Introduction to IT Project Management
- CIT 283 Oracle Database Administration II
- CIT Oracle PL/SQL Programming II
- CIT 216 Server+

**Topics available in CS 490:**
- Oracle PL/SQL developer
- Oracle MYSQL developer
- Oracle Database SQL
- Oracle Java Standard Edition Programmer
- Microsoft Certified Solution Associate (MSCA) SQL Server
- Cisco Certified Network Associate (CCNA)

**Computer Science**

**CS 115 - Introduction to Computers**
Computer literacy. History of computing, description of basic hardware components, use of application software, introduction to Internet resources, uses of computers in society, and the impact of computerization on society.
Credits: 3
Prerequisites: MATH 96 or higher with a grade of C or better, or two years of high school math. SAT score of 500 or better, or ACT score of 20 or better

CS 117 - Programming for Scientists and Engineers
Structured approach to programming and problem solving in FORTRAN. Emphasis placed on techniques of good programming style and on solving numerical problems encountered in science and engineering. Includes use of standard library routines.
Credits: 3
Prerequisites: MATH 181 or higher, with a grade of C or better.

CS 135 - Computer Science I
Problem-solving methods and algorithm development in a high-level programming language. Program design, coding, debugging, and documentation using techniques of good programming style. Program development in a powerful operating environment.
Credits: 3
Prerequisites: MATH 127 or MATH 128 or MATH 181 or higher, OR SAT math score of 630 or higher OR ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better.

CS 140 - Computing Languages
Use of a single programming language for problem formulation and solution. Language varies each semester. Typical languages include Java, LISP, Prolog, Scheme, etc.
Credits: 1-3
Prerequisites: Ability to program in a high-level language. May be repeated if language is different.

CS 202 - Computer Science II
Data structures and algorithms for manipulating linked lists. String and file processing. Recursion, Software engineering, structured programming and testing, especially larger programs.
Credits: 3
Prerequisites: CS 135/L with a grade of C or better.

CS 218 - Introduction to Systems Programming
Algorithms from systems programming including conversion, buffering, device drivers, assemblers and loaders. Use of system services, macros, and linkage conventions. Laboratory exercises programmed in assembly language.
Credits: 3
Prerequisites: CpE 100 and (CS 117 or CS 135).
Prerequisites must be completed with a grade of C or better.

CS 219 - Computer Organization
Basic organization of digital computers, including I/O units, arithmetic logic units, control units, and memory organization. Number and character representations. Instruction sets and addressing. Microprogramming.
Credits: 3
Prerequisites: CS 218 and CS 202. Prerequisites must be completed with a grade of C or better.

CS 270 - Introduction to Internet & World Wide Web
Introduction to Internet and World Wide Web tools and resources, including Web browsers, robots and search engines, agents, multimedia authorizing environments, electronic publishing, virtual reality, anonymizing and the use of relative identities, Internet security, digital watermarking, and Web censorship. Programming skills covered in corequisite lab. Intended for non-CS majors.
Credits: 2
Corequisites: CS 270L.
Prerequisites: CS 115 or equivalent, with a grade of C or better.

CS 270L - Introduction to Internet & World Wide Web - Lab
Acquaints students with the underlying theory behind, and practical experience in, the use of Interactive Internet and World Wide Web resources in such areas as education, scholarship
and research, interpersonal and group communication, virtual communities, electronic publishing, and electronic commerce.

Credits: 1
Corequisites: CS 270.
Prerequisites: CS 115 or equivalent, with a grade of C or better.

CS 301 - Social Implications of Computer Technology
In-depth examination of moral and ethical issues created by advancing computer technology. Review of ethical theories and examination of issues in malfunction liability, privacy, power, ownership and intellectual property. Discussion of social trends and their possible effects. Extensive reading, classroom discussion, and class presentations required.

Credits: 1
Prerequisites: COM 101 or HON 101, CS 218. Prerequisites must be completed with a grade of C or better.

CS 302 - Data Structures
Introduction to sequential and linked structures. File access including sequential, indexed sequential and other file organizations. Internal structures including stacks, queues, trees, and graphs. Algorithms for implementing and manipulating structured objects. Big-O-notation.

Credits: 3
Prerequisites: CS 202 and MATH 181. Prerequisites must be completed with a grade of C or better.

CS 326 - Programming Languages, Concepts and Implementation
Design, evaluation and implementation of programming languages. Includes data types and data abstraction, sequence control and procedural abstraction, parameter passing techniques, scope rules, referencing environments and run-time storage management. Study and evaluation of a number of current programming languages.

Credits: 3
Prerequisites: CS 302 and either CS 219 or CpE 300. Prerequisites must be completed with a grade of C or better. Advanced Standing Required.

CS 341 - Internet Programming
Fundamentals of Web page design, use of environment and SSI variables, GGI-Bin programming concepts with both scripting languages and interpreted and compiled languages, creation of advanced form applications, design of search/index utilities Web databases, design and implementation of interactive Web sites.

Credits: 2
Corequisites: CS 341L.
Prerequisites: CS 219 or CpE 310L and CS 202. Prerequisites must be completed with a grade of C or better. Advanced Standing Required.

CS 341L - Internet Programming Lab
Helps develop practical skills and applies industry-wide standards and practices for activities such as Web design and layout, electronic publishing, network communications, cyber media authoring systems, animations, virtual reality, and the development of executable content.

Credits: 1
Corequisites: CS 341.
Prerequisites: CS 202 or equivalent. Prerequisites must be completed with a grade of C or better. Advanced Standing Required.

CS 351 - Introduction to Multimedia
Nature and development of digital multimedia, including content selection, scripting, editing, transforming, and producing multimedia material. Basic multimedia development environments including analog and digital image and video capturing, motion development tools, scripting environments, and meta-level directing software. Semester project involves creation of an entire multimedia cd.

Credits: 2
Corequisites: CS 351L.
Prerequisites: CS 202 or equivalent. Prerequisites must be completed with a grade of C or better. Advanced Standing Required.
CS 351L - Introduction to Multimedia Lab
Develops practical skills and applies industry-wide standards and practices for the creation of interactive multimedia, including, but not limited to, use of such development tools as screen capture utilities, analog and digital video capture environments, motion development programs, and scripting and directing programs.
Credits: 1
Corequisites: CS 351.
Prerequisites: CS 202 or equivalent. Prerequisites must be completed with a grade of C or better. Advanced Standing Required.

CS 370 - Operating Systems
Operating systems organization, sharing and allocation of system resources, protection mechanisms, and integration of system components.
Credits: 3
Prerequisites: CS 302 and either CS 219 or CpE 300. Prerequisites must be completed with a grade of C or better. Advanced Standing Required.

CS 417 - Introduction to Computer Simulation
Simulation as a tool for the investigation of random phenomena. Emphasis on discrete simulation.
Preparation of input for simulation and analysis of results. Use of SIMSCRIPT for discrete simulation.
Comparison of discrete and continuous simulation.
Simulation problems in several disciplines examined in detail.
Credits: 3
Prerequisites: CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 617. Credit at the 600-level requires additional work.

CS 441L - Advanced Internet Programming Lab
Helps student develop practical skills and learn to apply industry-wide standards and practices for advanced Internet and Internet 2 applications.
Credits: 1
Corequisites: CS 441.
Prerequisites: CS 341 and CS 370. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 641L. Credit at the 600-level requires additional work.

CS 443 - Information Assurance
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. This course is crosslisted with CS
CS 445 - Internet Security
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.
Credits: 3
Prerequisites: CS 370 with a grade of C or better.

Notes: This course is crosslisted with CS 645. Credit at the 600-level requires additional work.

CS 448 - Computer Security
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.
Credits: 3
Prerequisites: CS 370 with a grade of C or better.
Notes: This course is crosslisted with CS 648. Credit at the 600-level requires additional work.

CS 449 - Computer and Network Forensics
Credits: 3
Prerequisites: CS 370

CS 451 - Multimedia Systems Design
Theory and practice of multimedia system design overview. High-level topics include multimedia content and formats, underlying technologies, digital cinematography, scripting, storyboarding, CD-ROM production and online publication, porting multimedia to the Web. Emphasis on the design process and the seamless integration of content in an interactive environment.
Credits: 3
Corequisites: CS 451L.
Prerequisites: CS 451 with a grade of C or better.
Notes: This course is crosslisted with CS 651. Credit at the 600-level requires additional work.

CS 451L - Multimedia Systems Design Laboratory
Helps student develop practical skills and learn to apply industry-wide standards and practices for the design of multimedia systems.
Credits: 1
Corequisites: CS 451.
Prerequisites: CS 370 with a grade of C or better.
Notes: This course is crosslisted with CS 651L. Credit at the 600-level requires additional work.

CS 456 - Automata and Formal Languages
Regular expressions. Regular, context-free, and unrestricted grammars. Finite and pushdown automata. Turing machines and the halting problem; introduction to decidability.
Credits: 3
Prerequisites: CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 656. Credit at the 600-level requires additional work.

CS 457 - Database Management Systems
Concepts and structures necessary for design and implementation of a database management system. Survey of current database management systems and use of a DBMS.
Credits: 3
Prerequisites: CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 657. Credit at the 600-level requires additional work.

**CS 458 - Introduction to Data Mining**
Introduction to basic concepts in data mining. Topics include association-rule mining, information extraction, web mining, categorization, and clustering.
Credits: 3
Prerequisites: CS 302 and MATH 251. Prerequisites must be completed with a grade of C or better.

**CS 460 - Compiler Construction**
Current methods in the design and implementation of compilers. Construction of the components of an actual compiler as a term project.
Credits: 3
Prerequisites: CS 326 and CS 456. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 660. Credit at the 600-level requires additional work.

**CS 463 - Computer Architecture**
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.
Credits: 3
Prerequisites: CS 370 with a grade of C or better.
Notes: This course is crosslisted with CS 663. Credit at the 600-level requires additional work.

**CS 465 - Computer Networks I**
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 networks, network architectures, networking hardware, wireless networks, and the basis of the Internet including UDP and TCP as well as a number of application protocols.
Credits: 3
Prerequisites: CS 370 with a grade of C or better.
Notes: This course is crosslisted with CS 665. Credit at the 600-level requires additional work.

**CS 466 - Computer Networks II**
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.
Credits: 3
Prerequisites: CS 465 with a grade of C or better.
Notes: This course is crosslisted with CS 666. Credit at the 600-level requires additional work.

**CS 469 - Introduction to Digital Image Processing**
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.
Credits: 3
Prerequisites: MATH 365, STAT 411, either CS 117 or CS 135. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 669. Credit at the 600-level requires additional work.

**CS 470 - Networks and Distributed Systems**
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.
Credits: 3
Prerequisites: CS 465 with a grade of C or better.
Notes: This course is crosslisted with CS 670. Credit at the 600-level requires additional work.

**CS 471 - Program Derivation**
Introduction to the formal derivation of computer programs from program specifications. Review of the logical and notational prerequisites needed for formal derivation. Guarded commands and the predicate transformer WP. Developing loops from invariants. Program development via sequence of refinements.
Credits: 3
Prerequisites: MATH 351 and CS 326. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 671. Credit at the 600-level requires additional work.

**CS 472 - Software Product Design and Development I**
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.
Credits: 3
Prerequisites: CS 326 and CS 370 and consent of instructor. Prerequisites must be completed with a grade of C or better. Department consent required.
Notes: This course is crosslisted with CS 672. Credit at the 600-level requires additional work.

**CS 473 - Software Product Design and Development II**
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.
Credits: 3
Prerequisites: CS 472 with a grade of C or better.

Notes: This course is crosslisted with CS 673. Credit at the 600-level requires additional work.

**CS 474 - Decision Environments for Software Product Development**
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, for change management, and for product and process measurement for a product development project.
Credits: 3
Prerequisites: CS 472 with a grade of C or better.
Notes: This course is crosslisted with CS 674. Credit at the 600-level requires additional work.

**CS 477 - Analysis of Algorithms**
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.
Credits: 3
Prerequisites: CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 677. Credit at the 600-level requires additional work.

**CS 480 - Computer Graphics**
Graphics hardware, software and applications. Data structures for graphics, graphics languages, computer-aided design, and three-dimensional graphics.
Credits: 3
Prerequisites: CS 202 and MATH 365. Prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 680. Credit at the 600-level requires additional work.
CS 482 - Artificial Intelligence
Survey of current artificial intelligence
technologies: game playing, theorem-proving,
natural language processing, pattern recognition,
and heuristic programming.
Credits: 3
Prerequisites: CS 302 and PHIL 422. Prerequisites
must be completed with a grade of C or better.
Notes: This course is crosslisted with CS 682. Credit
at the 600-level requires additional work.

CS 488 - Big Data Analytics
This course provides an introduction to the basic
concepts of big data analytics. Topics covered will
include: statistical analysis, machine learning, cloud
computing, Hadoop, Map Reduce, Spark, Data
Bridge, data privacy, and R language.
Credits: 3
Prerequisites: CS 302

CS 489 - Advanced Computer Science Topics
Undergraduate-level course in advanced topics of
computer science, depending upon the interest of
faculty and students.
Credits: 3
Prerequisites: Department Consent Required.
Notes: This course is crosslisted with CS 689. Credit
at the 600-level requires additional work.
May be repeated to a maximum of six credits.

CS 490 - Independent Study
Library research and reports on topics of computer
science interest.
Credits: 1-3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with CS 690. Credit
at the 600-level requires additional work.
May be repeated to a maximum of six credits.

CS 494 - Internship in Computer Science
A summer internship in an approved, computer
science related position. This course will be offered
only in the summer and not during the fall or spring
semesters. Students will apply computer science
concepts in a work-related setting. A final report is
required.
Credits: 1-3
Prerequisites: CS 302 with a grade of C or better
and prior approval by the school and employer.
Notes: A final report is required.

CS 495 - Senior Project Development I
This course will give students the opportunity to
develop a prototype piece of software from design
through implementation, including documentation
and presentation. May be done in cooperation with
an external entity and may be entered into the
College of Engineering’s Senior Design
Competition. This course focuses on selecting the
project, initial requirements, problem analysis and
problem specification.
Credits: 1
Prerequisites: CS 302 with a grade of C or better.

CS 496 - Senior Project Development II
This course will give students the opportunity to
develop a prototype piece of software from design
through implementation, including documentation
and presentation. May be done in cooperation with
an external entity and may be entered into the
College of Engineering’s Senior Design
Competition. This course focuses on implementing,
testing, documenting and presenting the prototype
solution to the problem selected in CS 495.
Credits: 2
Prerequisites: CS 495 with a grade of C or better.
Electrical and Computer Engineering

The Department of Electrical and Computer Engineering offers undergraduate degrees in electrical engineering and computer engineering. Both curricula are designed to provide students with the foundation necessary to enter either professional engineering employment or an engineering graduate program immediately after graduation. Students are prepared for lifelong practice by emphasizing the application of fundamental scientific and mathematical principles to engineering methodologies. The innovative art of engineering design is integrated throughout the curriculum from the freshman design course to the culminating capstone senior design course in the senior year.

Department Mission
The mission of the Department of Electrical and Computer Engineering is to serve society as a center of higher learning by providing an electrical and computer engineering education to society’s future leaders, innovators and engineers.

Department Goals
Provide undergraduate, graduate and professional education.
Create knowledge through research.
Disseminate knowledge through publication.
Provide private and public service, in as much as said service educates, creates and disseminates knowledge, or functions as a repository of knowledge.

Undergraduate Majors
Computer Engineering - Bachelor of Science in Engineering
Electrical Engineering - Bachelor of Science in Engineering

Computer Engineering Major (BSE)

Computer Engineering Major- Bachelor of Science in Engineering (BSE)
Please see the UNLV Howard R. Hughes College of Engineering web page at www.unlv.edu/engineering for information about department programs, faculty and facilities. Degree worksheets and 4/5 year plans for the major are available at www.unlv.edu/degree/bse-computer-engineering.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at www.engineering.unlv.edu/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - Accreditation Board for Engineering and Technology www.abet.org

ABET Program Educational Objectives
Program educational objectives are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program’s constituencies.

Computer Engineering Program Objectives
The Program Educational Objective of the Computer Engineering program is to create, apply, and disseminate knowledge immediately or within a few years after graduation the graduate:

1. can successfully practice and mature intellectually in the field of Computer Engineering or a related field.
2. can be admitted to and successfully progress through a post graduate program in Computer Engineering or related program.
ABET Student Outcomes
Student outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program.

Computer Engineering Student Outcomes
To achieve the above objectives and goals, each graduate of the Computer Engineering Major will attain the following outcomes before graduation:

(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Admission to the Major
Minimum GPA: 2.0
To enter the Computer Engineering (CpE) Major, a student must be admitted to the College of Engineering. Admission and transfer policies are described in the College of Engineering section. Students who have been admitted to the College of Engineering and are interested in being admitted to the CpE Major will be placed in the Computer Engineering Pre-major (CpEPRE). A student in the CpEPRE is eligible to submit an application to the Academic Advising Center for advanced standing in the CpE Major after completing the 22 credit CpEPRE curriculum listed below. Students who have not completed the CpEPRE curriculum and do not have advanced standing in the CpE Major cannot enroll in upper division Computer Engineering courses except for those listed below in the CpEPRE Extended Curriculum.

University Graduation Requirements
- Please see Graduation Policies for complete information

Department Policies
Regardless of catalog of graduation students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog. All mathematics, science, and computer science courses, and ENG 101 and ENG 102 must be completed with a grade of C or better. All engineering courses and their immediate prerequisite courses must be completed with a grade of C or better. Electrical and computer engineering students should register for EE 497 - Senior Design Project I in their next to last semester before their anticipated date of graduation.

Computer Engineering Degree Requirements Total: 120-123 Credits

Computer engineering is the application of scientific and mathematical principles to the design and analysis of all hardware, software, and operating systems for a computer system.
Computer engineering integrates several fields of electrical engineering and computer science and includes the study of hardware, software, and their integration. As such, students learn the principles of electricity, signals and systems, and technologies used in making digital devices. They further study programming languages, data structures, operating systems, and databases. The knowledge acquired during the first three years of the undergraduate program will culminate in architecture and design-related courses in which students experience the cost-performance tradeoffs associated with mitigating hardware issues to software.

General Education Requirements - Subtotal: 27-30 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3
(see note 2 below)

Constitutions - Credits: 4-6

Recommended courses:
- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Or a combination of one course from each of the following two lists

US Constitution
- HIST 101 - United States: Colonial Period to 1877

Nevada Constitution
- HIST 102 - United States Since 1877
- HIST 217 - Nevada History

• PSC 100 - Nevada Constitution

Mathematics
- MATH 181 - Calculus I - Fulfilled by the Major Requirements

Distribution Requirement - Credits: 15

Please see Distribution Requirements for more information.
(see note 1 and 2)

• Humanities and Fine Arts: 9 credits
  o PHIL 242 - Ethics for Engineers and Scientists
  o One Humanities course from a different area
  o One Fine Arts course

• Social Science: 6 credits
  o CEE 307 - Engineering Economics
  o One additional Social Science course from an area other than economics

• Life and Physical Sciences and Analytical Thinking:
  o Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. Students are encouraged to use "double dipper" courses with their fine arts and social science requirements. For the list of approved multicultural and international courses, go to:
https://www.unlv.edu/provost/multicultural-requirements
Major Requirements - BSE in Computer Engineering - Subtotal: 93 Credits

(*) signifies courses students are required to take in the Pre-major (CpEPRE) curriculum

(**) signifies courses students are to take in the Pre-major (CpEPRE) Extended curriculum (can be taken as Pre-major or Advanced Standing students)

Required Mathematics, and Natural Science Courses - Credits: 25

- MATH 181 - Calculus I (*)
- MATH 182 - Calculus II (*)
- MATH 251 - Discrete Mathematics I (**) or
- MATH 431 - Mathematics for Engineers and Scientists I (**) or
- CpE 260 - Signals and Systems for Computer Engineers (**)

- PHYS 180 - Physics for Scientists and Engineers I (*)
- PHYS 180L - Physics for Scientists and Engineers Lab I (*)
- PHYS 181 - Physics for Scientists and Engineers II (**) or
- PHYS 181L - Physics for Scientists and Engineers Lab II (**) or

- STAT 411 - Statistical Methods I
- STAT 463 - Applied Statistics for Engineers (**) or

EE Fundamental Courses - Credits: 43

- CpE 100 - Digital Logic Design I (*)
- CpE 200 - Digital Logic Design II (**) or
- CpE 200L - Digital Logic Design II Laboratory (**) or
- CpE 300 - Digital System Architecture and Design
- CpE 301 - Embedded Systems Design
- CpE 301L - Embedded Systems Design Laboratory for CpE
- CpE 302 - Synthesis and Verification Using Programmable Devices
- CS 135 - Computer Science I (*)
- CS 202 - Computer Science II
- CS 302 - Data Structures
- CS 370 - Operating Systems
- EE 220 - Circuits I (**) or
- EE 221 - Circuits II (**) or
- EE 221L - Circuits II Laboratory (**) or
- EE 320 - Electronics I
- EE 320L - Electronics I Laboratory
- EE 497 - Senior Design Project I
- EE 498 - Senior Design Project II

Computer Engineering Core Requirements - Credits: 12

- CS 135 - Computer Science I (*)
- CS 202 - Computer Science II
- CS 302 - Data Structures
- CS 370 - Operating Systems
- EE 220 - Circuits I (**) or
- EE 221 - Circuits II (**) or
- EE 221L - Circuits II Laboratory (**) or
- EE 320 - Electronics I
- EE 320L - Electronics I Laboratory
- EE 497 - Senior Design Project I
- EE 498 - Senior Design Project II

Students must select and complete at least 6 credits in at least 2 concentration areas from the following four areas, totaling 12 credits:

**Digital Design:**
- EE 421 - Digital Electronics
- CpE 404 - Modern Processor Architecture
- CpE 408 - VLSI Physical Design and Testing

**Computer Networks:**
- CpE 400 - Computer Communications Networks
- CpE 405 - Information Coding Systems
- CS 445 - Internet Security

**Embedded Systems:**
- CpE 403 - Advanced Embedded Systems
- CpE 409 - Embedded DSP
- CPE 476 - Mobile Robotics

**Security Systems:**
- CpE 407 - Biometrics and Machine Learning
- CS 458 - Introduction to Data Mining
- CpE 417 - Internet of Things Systems

Computer Engineering Labs - Credit: 1

Students must select and complete at least one credit of laboratory from the following list:

- CpE 300L - Digital Systems Architecture and Design Laboratory
- EE 420L - Electronics II Laboratory
• EE 421L - Digital Electronics Laboratory

Professional Electives - Credits: 6

(see note 3 below)

Mathematics/Science Elective - Credits: 6

(see note 4 below)

Total Credits: 120-123

Notes

1. Please see Department approved lists available in the Department office or Academic Advising Center, for courses in social science, humanities, and fine arts. In addition, CEE 307 and PHIL 242 are required.

2. Every student must complete a three-credit Second-Year Seminar course. PHIL 242 may satisfy the three-credit Second-Year Seminar course requirement as well as three credits of the Humanities requirement for College of Engineering students only whose degree requires 120+ credits.

3. Professional Electives: Professional electives must be electrical or computer engineering courses. Students are encouraged to select sequences of at least two courses in a given field. All professional electives must be approved by the Department. A list of approved professional electives is available through the department office or Academic Advising Center. Students who want to apply a professional elective that is not on the approved list towards their computer engineering major must obtain the Department Chair’s and the Undergraduate Curriculum Committee’s Chair’s approval.

4. Mathematics/Science Elective. The mathematics/science elective must be from mathematics courses (MATH, STAT) or natural science courses (BIOL, CHEM, PHYS). All mathematics/science electives must be approved by the Department. A list of approved mathematics/science electives is available through the department office or Academic Advising Center. Students who want to apply a mathematics/science elective that is not on the approved list towards their computer engineering major must obtain the Department Chair’s and the Undergraduate Curriculum Committee’s Chair’s approval.

Computer Engineering

CpE 100 - Digital Logic Design I
Number systems, including unsigned binary and two’s complement numbers. Logic gates. Boolean algebra. Combinational circuits. Introduction to sequential circuits.
Credits: 3
Prerequisites: MATH 127 or MATH 128 or MATH 181, with a grade of C or better.

CpE 100L - Digital Logic Design I Laboratory
Number Systems. Logic gates. Simplification of Boolean functions. Design and testing of combinational and sequential circuits.
Credits: 1
Corequisites: CpE 100.
Notes: For non-electrical and non-computer engineering majors only.

CpE 200 - Digital Logic Design II
Sequential circuits, finite state machines (FSMs), and integer arithmetic circuits. Timing analysis. Programmable logic devices (PLDs). Hardware Description Language (HDL). NIOS assembly language.
Credits: 3
Corequisites: CpE 200D
Prerequisites: CpE 100 with a grade of C or better.

CpE 200D - Digital Logic Design II Discussion
CAD tools. Hardware description language. Assembly language.
Credits: 0
Corequisites: CpE 200
Prerequisites: CpE 100 with a grade of C or better.

CpE 200L - Digital Logic Design II Laboratory
Design of sequential circuits, finite state machines (FSMs), and arithmetic circuits. Timing analysis. Use of programmable logic devices (PLDs) and hardware description languages (HDLs). Assembly language..
Credits: 1
Corequisites: CpE 200
Prerequisites: CpE 100 with a grade of C or better.

CpE 260 - Signals and Systems for Computer Engineers
Real and complex signals and linear time invariant (LTI) systems. Signal analysis using linear combinations of signals from linear signal spaces. Analysis of LTI systems described by linear constant coefficient differential equation using zero input and zero state responses, homogeneous and particular response, and the Laplace transform.
Credits: 3
Prerequisites: MATH 182 with a grade of C or better.

CpE 300 - Digital System Architecture and Design
Design of dedicated digital systems and general microprocessors using HDL and CAD tools. RISC Instruction set and assembly language. Performance analysis. Memory system.
Credits: 3
Prerequisites: CpE 200 with a grade of C or better. Advanced Standing required.

CpE 300L - Digital Systems Architecture and Design Laboratory
Design of data paths and control units for RISC microprocessors using HDL tools and design platforms. Timing analysis, simulation and testing of synchronous digital systems.
Credits: 1
Corequisites: CpE 300
Prerequisites: CpE 200L must be completed with a grade of C or better.

CpE 301 - Embedded Systems Design
Microcontrollers and its application to a broad range of engineering problems. Microcontroller architecture, instruction set, and interfaces with sensors, actuators, motors, peripheral devices and communication modules. Assembly and C programming for microcontrollers. Use of simulation and debugging tools.
Credits: 3
Prerequisites: CpE 200 or CS 218. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

CpE 301L - Embedded Systems Design Laboratory for CpE
Credits: 1
Corequisites: CpE 301
Prerequisites: CpE 200L with a C grade or better. Advanced Standing required.

CpE 302 - Synthesis and Verification Using Programmable Devices
Advanced methodologies in the design of digital systems. Hardware Description Languages (HDLs). Simulation, synthesis, verification of digital system designs using FPGAs. FPGA placement, routing, and timing analysis tools.
Credits: 3
Prerequisites: CpE 200 or CS 302. All prerequisites must be completed with a grade of C or better.

**CpE 310L - Embedded Systems Design Laboratory for EE**
Hands-on study of microcontroller applications to a broad range of engineering problems. Use of simulation and emulation tools. Assembly and C microcontroller programming. Hardware interface design and programming.
Credits: 1
Prerequisites: CpE 200L with a grade of C or better. Advanced Standing required.

**CpE 400 - Computer Communications Networks**
Computer network architecture; OSI model; network protocols; local area networks; communication technologies; Network performance analysis, with emphasis on hardware design issues.
Credits: 3
Prerequisites: CpE 300, CS 370 and (MATH 431 or CpE 260). All prerequisites must be completed with a grade of C or better. Advanced Standing required.

**CpE 403 - Advanced Embedded Systems**
Hardware and software for embedded systems using 32-bit microcontrollers. High-level language programming, simulation and debugging. RTOS for embedded systems. Project-based course.
Credits: 3
Prerequisites: CpE 301 with a grade of C or better. Advanced Standing required.

**CpE 404 - Modern Processor Architecture**
Credits: 3
Prerequisites: CpE 300 with a grade of C or better. Advanced Standing required.

**CpE 405 - Information Coding Systems**
Credits: 3
Prerequisites: (MATH 431 or CpE 260) and EE 220. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

**CpE 407 - Biometrics and Machine Learning**
Credits: 3
Prerequisites: STAT 463 and (MATH 431 or CpE 260). All prerequisites must be completed with a grade of C or better. Advanced Standing required.

**CpE 408 - VLSI Physical Design and Testing**
VLSI CAD algorithms for partitioning, floor planning, placement, routing, layout, and compaction. Test process and equipment, fault modeling and simulation, defects, Automatic Test Pattern Generation (ATPG), built-in self-test, design for testability.
Credits: 3
Prerequisites: CpE 300 and EE 320. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

**CpE 409 - Embedded DSP**
DSP operations in spatial and transform domains. Hardware mapping for designing circuits for embedded audio and video processing. DSP processor architecture and programming examples.
Credits: 3
Prerequisites: CpE 300 with a grade of C or better. Advanced Standing required.
CpE 417 - Internet of Things Systems
Principles and design of Internet of Things systems. IoT operation, sensors and node types. Data management, IoT operating systems, and security. Project-based.
Credits: 3
Prerequisites: CS 135 and (CpE 200 or CS 218). All prerequisites must be completed with a grade of C or better.
Notes: This course is crosslisted with ECG 617. Coursework at the 600-level requires additional work.

CPE 476 - Mobile Robotics
Design, implementation and programming of autonomous mobile robots (UAVs and Rovers), kinematics and dynamics of robots, basic control theory, sensors and actuators for robots, autopilots and autonomous control, and robot application development.
Credits: 3
Prerequisites: CS 135 and either CS 218 or CpE 200. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

Electrical Engineering Major (BSE)

Electrical Engineering Major - Bachelor of Science in Engineering (BSE)
Please see the UNLV Electrical and Computer Engineering department web page at http://ece.unlv.edu/ for more information about department programs, faculty, and facilities. Degree worksheets and 4/5 year plans for the major are available at https://www.unlv.edu/degree/bse-electrical-engineering.

Please see advising information at the UNLV College of Engineering Advising Center at http://engineering.unlv.edu/advising/

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - Engineering Accreditation Commission of ABET http://www.abet.org

ABET Program Educational Objectives
Program educational objectives are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program's constituencies.

Electrical Engineering Program Objectives
The Program Educational Objective of the Electrical Engineering program is to create, apply, and disseminate knowledge immediately or within a few years after graduation the graduate:

1. can successfully practice and mature intellectually in the field of Electrical Engineering or a related field.
2. can be admitted to and successfully progress through a post graduate program in Electrical Engineering or related program.
ABET Student Outcomes
Student outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program.

Electrical Engineering Student Outcomes
To achieve the above objectives and goals, each graduate of the Electrical Engineering Major will attain the following outcomes before graduation:

(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Admission to the Major
Minimum GPA: 2.0
To enter the Electrical Engineering (EE) Major, a student must be admitted to the College of Engineering. Admission and transfer policies are described in the College of Engineering section. Students who have been admitted to the College of Engineering and are interested in being admitted to the EE Major will be placed in the Electrical Engineering Pre-major (EEGPRE). A student in the EEGPRE is eligible to submit an application to the Advising Center for advanced standing in the EE Major after completing the 22 credit EEGPRE curriculum listed as an (*) in Major Requirements. Students who have not completed the EEGPRE curriculum and do not have advanced standing in the EE Major cannot enroll in upper division Electrical Engineering courses except for those in the EEGPRE Extended Curriculum listed as a (**) in the Major Requirements.

Department Policies
Regardless of catalog of graduation students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog. All mathematics, science, and computer science courses, and ENG 101 and 102 must be completed with a grade of C or better. All engineering courses and their immediate prerequisite courses must be completed with a grade of C or better. Electrical and computer engineering students should register for EE 497 - Senior Design Project I in their next to last semester before their anticipated date of graduation. Students should register for Senior Design I, in their next-to-last semester of expected graduation.

University Graduation Requirements
Please see Graduation Policies for complete information

Electrical Engineering Major Degree Requirements - Total: 121-124 Credits
General Education Requirements - Subtotal: 27-30 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3
(see note 1 below)

Constitutions - Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Or a combination of one course from each of the following two lists

US Constitution
- HIST 101 - United States: Colonial Period to 1877
- HIST 102 - United States Since 1877

Nevada Constitution
- HIST 217 - Nevada History
- PSC 100 - Nevada Constitution

Mathematics - Credits: (Fulfilled by Major Requirements)
- MATH 181 - Calculus I (*)

Distribution Requirements - Credits: 15

Please see Distribution Requirements for more information.
(see note 1 and 2)

- Humanities and Fine Arts: 9 credits
  - PHIL 242 - Ethics for Engineers and Scientists

- One Humanities course from a different area
- One Fine Arts course

Social Science: 6 credits
- CEE 307 - Engineering Economics
- One additional Social Science course from an area other than economics

Life and Physical Sciences and Analytical Thinking:
- Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. Students are encouraged to use "double dipper" courses with their fine arts and social science requirements. For the list of approved multicultural and international courses, go to: https://www.unlv.edu/provost/multicultural-requirements.

Major Requirements - BSE in Electrical Engineering - Subtotal: 94 Credits

(*) signifies courses students are required to take in the Pre-major (EEGPRE) curriculum

(**) signifies courses students are required to take in the Pre-major (EEGPRE) Extended curriculum (can be taken as Pre-major or Advanced Standing students)

Required Mathematics, and Natural Science Courses-Credits: 26
- MATH 181 - Calculus I (*) (fulfills the General Education Mathematics Requirement)
- MATH 182 - Calculus II (*)
• MATH 283 - Calculus III (**)
• MATH 431 - Mathematics for Engineers and Scientists I (**)

or

• MATH 432 - Mathematics for Engineers and Scientists II (**)
• MATH 459 - Elementary Complex Analysis (**)

• PHYS 180 - Physics for Scientists and Engineers I (*)
• PHYS 180L - Physics for Scientists and Engineers Lab I (*)
• PHYS 181 - Physics for Scientists and Engineers II (**)
• PHYS 181L - Physics for Scientists and Engineers Lab II (**)

Required Computer Science Course - Credits: 3
• CS 135 - Computer Science I (*)

Required Fundamental Electrical Engineering Courses - Credits: 33
• CpE 100 - Digital Logic Design I (*)
• CpE 200 - Digital Logic Design II (**)
• CpE 200L - Digital Logic Design II Laboratory (**)
• EE 220 - Circuits I (**)
• EE 221 - Circuits II (**)
• EE 221L - Circuits II Laboratory (**)
• EE 320 - Electronics I
• EE 320L - Electronics I Laboratory
• EE 330 - Engineering Electromagnetics
• EE 360 - Signals and Systems I
• EE 361 - Signals and Systems II
• EE 370 - Control Systems I
• EE 497 - Senior Design Project I
• EE 498 - Senior Design Project II

Electrical Engineering Core Requirements - Credits: 18

Students must select and complete one course in six areas:

Computers:
• CpE 300 - Digital System Architecture and Design
• CpE 301 - Embedded Systems Design
• CpE 302 - Synthesis and Verification Using Programmable Devices

Electronics:
• EE 420 - Electronics II
• EE 421 - Digital Electronics

Electromagnetism:
• EE 430 - Transmission Lines
• EE 431 - Engineering Optics
• EE 432 - Antenna Engineering
• EE 436 - Active and Passive Microwave Engineering

Power:
• EE 340 - Power System Fundamentals

Solid State:
• EE 450 - Solid State Devices

Communications:
• EE 460 - Introduction to Communication Systems

Controls:
• EE 472 - Digital Control Systems

Digital Signal Processing:
• EE 480 - Digital Signal Processing

Laboratory Requirements - Credits: 4

Students must select and complete four laboratory credits from:
• CpE 300L - Digital Systems Architecture and Design Laboratory
• CpE 310L - Embedded Systems Design Laboratory for EE
• EE 340L - Power System Fundamentals Laboratory
• EE 370L - Control Systems I Laboratory
• EE 420L - Electronics II Laboratory
• EE 421L - Digital Electronics Laboratory
• EE 450L - Solid State Characterization Laboratory
• EE 460L - Communication Systems Lab
Notes

1. Every student must complete a three-credit Second-Year Seminar course. Course PHIL 242 satisfies the three-credit Second-Year Seminar course requirement as well as three credits of the Humanities requirement for College of Engineering students only whose degree requires 120+ credits.

2. Please see department approved lists available in the department office or Advising Center, for courses in social science, humanities, and fine arts. In addition, CEE 307 and PHIL 242 are required.

3. Professional Electives: Professional electives must be electrical or computer engineering courses. Students are encouraged to select sequences of at least two courses in a given field. All professional electives must be approved by the Department. A list of approved professional electives is available through the department office or Advising Center. Students who want to apply a professional elective that is not on the approved list towards their EE major must obtain the Department Chair’s and the Undergraduate Curriculum Committee’s Chair’s approval.

4. Mathematics/Science Elective. The mathematics/science elective must be from mathematics courses (MATH, STAT) or natural science courses (BIOL, CHEM, PHYS). All mathematics/science electives must be approved by the Department. A list of approved mathematics/science electives is available through the department office or Academic Advising Center. Students who want to apply a mathematics/science elective that is not on the approved list towards their EE major must obtain the Department Chair’s and the Undergraduate Curriculum Committee’s Chair’s approval.

Electrical Engineering

EE 220 - Circuits I
Introduction to linear circuit analysis. Kirchhoff’s laws, operational amplifiers, node and loop analysis. Thevenin, Norton, and other network theorems, first order RL and RC circuits, second order RLC circuits.
Credits: 3
Prerequisites: MATH 182 with a grade of C or better.

EE 221 - Circuits II
Sinusoidal steady state analysis using phasors, sinusoidal steady state power, three-phase circuits, magnetically coupled circuits and transformers, Laplace transform and its application to circuit analysis, transfer functions, frequency response, two-port networks.
Credits: 3
Corequisites: EE 221L.
Prerequisites: EE 220 and either CS 117 or CS 135. All prerequisites must be completed with a grade of C or better.

EE 221L - Circuits II Laboratory
Basic measurements and instrumentation. Principles of experimentation.
Credits: 1
Corequisites: EE 221.
EE 292 - Fundamentals of Electrical & Computer Engineering
Introduction to electrical circuit analysis, electronic devices and circuits, transducers, electric machines and power transmission.
Credits: 3
Prerequisites: MATH 182 and either PHYS 180 or PHYS 151; All prerequisites must be completed with a grade of C or better.
Notes: For non-electrical engineering majors only.

EE 310 - Principles of Solid State and Optoelectronic Systems
Modern experiments, concepts, and theory important for study in photonics, optoelectronics, solid state devices, and nanotechnology. Topics: electrons and photons, counting and interference experiments, optical resonator, Schrodinger equation, quantum dots, atoms, molecules, solids, Fermi-Dirac distribution, Bose-Einstein distribution, energy bands, photonic crystals.
Credits: 3
Prerequisites: PHYS 181 with a minimum grade of C or better.

EE 320 - Electronics I
Circuit design and analysis using diodes and transistors. Introduction to semiconductor physics. Circuit simulation with SPICE.
Credits: 3
Prerequisites: EE 221, PHYS 181, PHYS 181L, and either MATH 431 or CpE 260; All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 320L - Electronics I Laboratory
Laboratory-based analysis and design of electrical and electronic systems.
Credits: 1
Corequisites: EE 320.
Prerequisites: EE 221L with a grade of C or better.

EE 330 - Engineering Electromagnetics
Credits: 3
Corequisites: MATH 432
Prerequisites: EE 221, PHYS 181, and either MATH 431 or CpE 260. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 340 - Power System Fundamentals
Electric energy sources (including renewable) and energy conversion principles, modeling and analysis of synchronous generators, transmission lines, transformers, AC machines, introduction to power system analysis including economic dispatch, power flow, fault calculations.
Credits: 3
Prerequisites: EE 221 with a grade of C or better. Advanced Standing required.

EE 340L - Power System Fundamentals Laboratory
Measurement of power quantities, derivation of equivalent circuit parameters and characteristics of electric generators, transformers, transmission lines, AC motors, use of software packages for fault calculation, economic dispatch, and load flow analysis.
Credits: 1
Corequisites: EE 340.

EE 360 - Signals and Systems I
Deterministic signals and linear systems. Time domain description and analysis of analog and discrete linear systems. Analysis of linear systems using the Laplace transform and the z-transform. Block diagram and flow graph representation of signals and linear systems. Introduction to state space representation and analysis.
Credits: 3
Corequisites: MATH 459 or MATH 432.
Prerequisites: MATH 431 or CpE 260 and either EE 221 or EE 292. All prerequisites must be completed with a grade of C or better. Advanced Standing required.
EE 361 - Signals and Systems II
Stochastic and deterministic signals and linear systems. Analog and discrete Fourier Series, analog and discrete Fourier transforms, basic probability theory, stochastic processes, stochastic signals and linear systems.
Credits: 3
Prerequisites: EE 360 and either MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 370 - Control Systems I
Introduction to control systems. Feedback control characteristics, performance, stability. Analysis, synthesis and design of feedback control systems.
Credits: 3
Prerequisites: EE 360 and either MATH 459 or MATH 432. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 370L - Control Systems I Laboratory
Laboratory projects and exercises in feedback control.
Credits: 1
Corequisites: EE 370.

EE 420 - Electronics II
An introduction to the design, layout, and simulation of analog integrated circuits including current mirrors, voltage and current references, amplifiers, and op-amps.
Credits: 3
Prerequisites: EE 320 and either MATH 431 or CpE 260. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 420L - Electronics II Laboratory
Applications and study of modern electronic analog and digital circuits. Advanced instrumentation.
Credits: 1
Corequisites: EE 420
Prerequisites: EE 320L with a grade of C or better. Advanced Standing required.

EE 421 - Digital Electronics
An introduction to the design, layout, and simulation of digital integrated circuits. MOSFET operation and parasitic. Digital design fundamentals including the design of digital logic blocks.
Credits: 3
Prerequisites: EE 320 with a grade of C or better. Advanced Standing required.

EE 421L - Digital Electronics Laboratory
Digital circuit analysis. Discrete and integrated circuit technology, logic families, A/D-D/A circuits, comparators, Schmitt triggers.
Credits: 1
Corequisites: EE 421.
Prerequisites: EE 320L with a grade of C or better. Advanced standing required.

EE 430 - Transmission Lines
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.
Credits: 3
Prerequisites: EE 330 with a grade of C or better. Advanced Standing required.

EE 431 - Engineering Optics
Engineering applications of optics. Includes aperture and grating antennas, holography, optical image processing, optical waveguides, and tomography.
Credits: 3
Prerequisites: EE 330 and either MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 432 - Antenna Engineering
Fundamentals of antennas and antenna design; linear wire, loop, and antenna arrays; antenna measurements.
Credits: 3  
Prerequisites: EE 330 and either MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 436 - Active and Passive Microwave Engineering  
Waveguides, dispersion diagrams, microwave network analysis, broadband impedance matching, open and closed resonators, power dividers, directional couplers, filters, circulators, phase shifters, introduction to solid state amplifier or oscillator design.  
Credits: 3  
Prerequisites: EE 330 and either MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 442 - Power Electronics  
Characteristics of static switches, AC-to-DC diode and thyristor rectifier circuits, DC-to-DC converters, DC-to-AC inverters, resonant converters, switch-mode DC power supplies, AC motor drives, residential and industrial applications, electric utility applications.  
Credits: 3  
Prerequisites: EE 320 and EE 340. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 446 - Photovoltaic Devices and Systems  
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 standalone and grid-connected PV Systems, economic considerations.  
Credits: 3  
Prerequisites: MATH 182 or consent of instructor. All prerequisites must be completed with a grade of C or better.

EE 450 - Solid State Devices  
Semiconductor physics, on diode, bipolar junction transistor, metal semiconductor FET devices, metal oxide semiconductor FET devices.  
Credits: 3  
Prerequisites: EE 320, MATH 431. All prerequisites must be completed with a grade of C or better. Advanced Standing required.

EE 450L - Solid State Characterization Laboratory  
Capacitance and voltage, Hall mobility and carrier concentration, oxidation and etching silicon dioxide processing of silicon.  
Credits: 1  
Prerequisites: EE 450 with a grade of C or better.

EE 451 - Electronic and Magnetic Materials and Devices  
Semiconductors, dielectrics, ferroelectrics, antiferromagnetic, ferromagnetic, crystal structure, structure-property relations, device applications.  
Credits: 3  
Prerequisites: EE 330 with a grade of C or better. Advanced Standing required.

EE 452 - Optical Electronics  
Electromagnetic theory of light, polarization, external modulation of light, Gaussian beams, cavity resonators, fiber optics, lasers, CW and pulsed operations, photodetectors, optical sensing, laser beam steering and scan, LIDAR, and display devices.  
Credits: 3  
Prerequisites: EE 330 with a grade of C or better. Advanced Standing required.

EE 453 - Introduction to Nanotechnology  
Credits: 3
Prerequisites: EE 320 with a grade of C or better.
Advanced Standing required.

EE 460 - Introduction to Communication Systems
An introduction to analog and digital communication systems. Communication channels, modulation and demodulation, DSB, AM, SSB, FM and PM modulation schemes. Analog to digital conversion, sampling theorem, quantization noise and PCM systems. Line coding and digital carrier modulation schemes including ASK, PSK, FSK and QAM.
Credits: 3
Prerequisites: EE 361 with a grade of C or better.
Advanced Standing required.

EE 460L - Communication Systems Lab
Laboratory experiments related to the communication system theory taught in EE 460. The lab includes experiments related to spectrum analysis, AM and FM modulations and demodulations, analog to digital conversion, PCM coding, and baseband and carrier digital modulations.
Credits: 1
Corequisites: EE 460

EE 462 - Digital Communication Systems
Fundamentals of digital communication systems including Line Coding, ASK, PSK, FSK and QAM modulations, receiver design and performance, band limited channels.
Credits: 3
Prerequisites: EE 460 with a grade of C or better.
Advanced Standing required.

EE 466 - Wireless and Mobile Communication Systems
The study of wireless systems including cellular telephone systems, wireless local area networks and other wireless data services. Topics include digital modulation techniques, frequency reuse, diversity techniques, multiple access schemes and channel modeling including path loss, shadowing, fading and multipath interference.
Credits: 3
Prerequisites: EE 460 with a grade of C or better.
Advanced Standing required.

EE 472 - Digital Control Systems
Introduction to discrete time of control. State space representation of linear systems; stability; the concepts of controllability and observability. Sample data control system design techniques, including pole placement, observer design.
Credits: 3
Prerequisites: EE 370 or ME 421 with a grade of C or better.
Advanced Standing required.

EE 475 - Autonomous Systems and Control
Autonomous multivariable systems, state space analysis, controllability, observability and stability, design of control systems, aircraft longitudinal and lateral dynamics, modal approximations, lateral and longitudinal autopilots, VTOL UAVs dynamics and control.
Credits: 3
Prerequisites: EE 370 with a grade of C or better.
Advanced Standing required.

EE 480 - Digital Signal Processing
Review of discrete linear system theory including the z-transform, the Fourier transform, discrete and fast Fourier transform. Sampling, reconstruction and multirate systems, IIR and FIR digital filter design including digital filter structures and finite word length effects.
Credits: 3
Prerequisites: EE 361 with a grade of C or better.
Advanced Standing required.

EE 480L - Digital Signal Processing Laboratory
Laboratory projects and exercises in digital signal processing including the design and implementation of FIR, IIR, and multirate systems.
Credits: 1
Corequisites: EE 480.
EE 482 - Digital Signal Processing Applications
Application of signals and systems theory. Topics may include audio and speech signal processing, image processing, multi-spectral imaging, biomedical signals, and active sensing technologies such as Radar and Lidar.
Credits: 3
Prerequisites: EE 361 with a grade of C or better. Advanced Standing required.

EE 493 - Independent Study
Independent study of a selected engineering topic.
Credits: 1-3
Prerequisites: Senior standing in Electrical Engineering.
May be repeated once for credit.

EE 495 - Special Topics
Covers experimental and other topics which may be of current interest.
Credits: 1-4
Prerequisites: Upper-division standing in Engineering.
Notes: Topics and credits to be announced. May have a laboratory.
May be repeated once under a different topic. May be repeated to a maximum of six credits.

EE 497 - Senior Design Project I
Capstone synthesis course to teach students the design process from problem definition, team building, to project planning, paper design, written and oral communications.
Credits: 1
Prerequisites: EE 320 and EE 320L. Senior standing and advanced standing and department consent.

EE 498 - Senior Design Project II
Capstone synthesis course to teach students hardware and software implementation of their projects proposed and paper-designed in EE 497, testing and recommendations, project presentation.
Credits: 2
Prerequisites: EE 497 with a grade of C or better, and final semester senior.
Mechanical Engineering

Mechanical engineering is a diverse and flexible engineering discipline. Mechanical engineers work in number of fields including design of machinery, controls, vibrations and acoustics, power generation, renewable energy, energy conservation, fluid flow and heat transfer applications, and air-conditioning. The program synthesizes math, science, engineering science, and engineering design. The program provides electives in several general areas, including thermal-sciences, mechanical design and manufacturing, robotics and automation, mechanical and environmental systems, nuclear engineering, aerospace engineering, and bioengineering. Students begin the practice of design in their freshman year and integrate it throughout their programs which culminate in a team-oriented capstone design project in the senior year. The program is geared to prepare students for the lifelong practice of mechanical engineering and for immediate entry to positions in industry or further studies in graduate schools. The department also offers the Integrated B.S.-M.S. program for qualified undergraduate students.

Mission

It is the mission of the Department of Mechanical Engineering to prepare students for the lifelong practice of mechanical engineering and related engineering disciplines. This includes preparation for immediate entry into positions in industry or for further study in graduate school.

In addition, the department sustains an outstanding academic program, motivating the faculty to attain excellence in research by acquiring external funding and by incorporating students into their research programs.

Accredited by the:
Institution - Northwest Commission on Colleges and Universities, www.nwccu.org

Engineering Accreditation Commission of ABET, http://www.abet.org

Undergraduate Major
Bachelor of Sciences in Engineering — Mechanical Engineering

Program Goals
The goals of Bachelor of Sciences in the Engineering — Mechanical Engineering program are to:

- Prepare graduates for the lifelong learning of mechanical engineering.
- Provide graduates with solid academic preparation for professional positions and/or graduate study.

Program Educational Objectives
The Bachelor of Science in Engineering - Mechanical Engineering Program has the following program educational objectives:

- Graduates will meet or exceed the expectations of employers of Mechanical Engineers
- Qualified graduates will pursue advanced study if desired
- Graduates will pursue leadership positions in their profession and/or communities

Student Outcomes
The Mechanical Engineering Faculty has adopted the engineering criteria (a) through (k) student outcomes, namely:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
• (d) an ability to function on multidisciplinary teams
• (e) an ability to identify, formulate, and solve engineering problems
• (f) an understanding of professional and ethical responsibility
• (g) an ability to communicate effectively
• (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
• (i) a recognition of the need for, and an ability to engage in life-long learning
• (j) a knowledge of contemporary issues
• (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**Admission to the Major**
Minimum: GPA 2.50
Admission and transfer policies are described in the College of Engineering section.

**Department Policies**
1. Grade of C (2.00) or higher must be earned in each engineering course (ME, CEE, EE, EGG) for graduation.
2. Grades of C (2.00) or higher are required in all immediate prerequisites of all engineering, science, construction management, and computer science courses and in ENG 101 and 102.
3. An overall 2.3 GPA and 2.5 GPA in engineering courses is required for probation, transfer, and graduation.
4. Students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.
5. Students must be admitted to advanced standing prior to registering for upper-division courses in the College of Engineering.
6. All mechanical engineering students must take the Fundamentals of Engineering Discipline Specific Mechanical Engineering Examination as a graduation requirement.

**Mechanical Engineering Major (BSE)**

**Mechanical Engineering Major - Bachelor of Science in Engineering (BSE)**
Please see the UNLV Mechanical Engineering department web page http://www.unlv.edu/me for more information about department programs, faculty, and facilities. Degree worksheets and 4/5 year plans for the major are available at https://www.unlv.edu/degree/bse-mechanical-engineering.

Please see advising information at the UNLV College of Engineering Advising Center at http://engineering.unlv.edu/advising/.

**Accreditation**
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program Accredited by Engineering Accreditation Commission of ABET http://www.abet.org

**Program Educational Objectives**
The Bachelor of Science in Engineering - Mechanical Engineering Program has the following program educational objectives:

• Graduates will meet or exceed the expectations of employers of Mechanical Engineers
• Qualified graduates will pursue advanced study if desired
• Graduates will pursue leadership positions in their profession and/or communities

**Student Outcomes**
The Mechanical Engineering Faculty has adopted the engineering criteria (1) through (7) student outcomes, namely:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

University Graduation Requirements
- Please see Graduation Policies for complete information

Admission to the Major
Minimum: GPA 2.50

Admission and transfer policies are described in the College of Engineering Section.

Department Policies
1. Grades of C (2.00) or higher are required in all immediate prerequisites of all engineering, science, construction management, and computer science courses and in ENG 101 and 102.
2. An overall 2.0 GPA and 2.0 GPA in engineering courses is required for probation, transfer, advanced standing and graduation.
3. Students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.
4. Students must be admitted to ‘advanced standing’ prior to registering for ME 330, ME 380 and ME 497.
5. Students must meet with a faculty mentor as part of the application for ‘advanced standing’.
6. Students must meet with a faculty mentor for a second time prior to registering for ME 497
7. All mechanical engineering students must take the Fundamentals of Engineering Discipline Specific Mechanical Engineering Examination as a graduation requirement.

Mechanical Engineering Degree Requirements - Total: 120-125 Credits

General Education Requirements - Subtotal: 27-33 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3
(see note 1 below)

Constitutions - Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: (Fulfilled by Major Requirements)

Distribution Requirements - Credits: 15

Please see Distribution Requirements for more information.
• Humanities and Fine Arts: 9 credits
  o PHIL 242 - Ethics for Engineers and Scientists (can satisfy Second-Year Seminar for Engineering Students)
  o One elective courses from a different area (see Multicultural and International Requirements)
  o One course in Fine Arts - 3 credits
• Social Science: 6 credits
  o CEE 307 - Engineering Economics
  o One elective course to fulfill the Distribution Requirement (see Multicultural and International Requirements)
• Life and Physical Sciences and Analytical Thinking:
  o Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BS in Mechanical Engineering
Major - Subtotal: 92 Credits

Mechanical Engineering Pre-Major Courses - Credits: 27

Students in the Pre-major for Mechanical Engineering have to complete the First-Year Seminar and the English Composition Requirements as well as the classes below before being eligible for Advance Standing status.

Mathematics - Credits: 8

• MATH 181 - Calculus I - fulfills the General Education Mathematics Requirement.
• MATH 182 - Calculus II

Sciences - Credits: 12
• CHEM 121A - General Chemistry I
• CHEM 121L - General Chemistry Laboratory I
• PHYS 180 - Physics for Scientists and Engineers I
• PHYS 180L - Physics for Scientists and Engineers Lab I
• PHYS 182 - Physics for Scientists and Engineers III
• PHYS 182L - Physics for Scientists and Engineers Lab III

Engineering - Credits: 6
• CEE 241 - Statics
• ME 242 - Dynamics

Drafting Requirement - Credit: 1
Choose one course from:
• ME 220 - 3D Modeling with Creo
• ME 240 - 3D Modeling with Solidworks

Pre-Major or Advanced Standing Courses - Credits: 19

Students in the Pre-major or Advanced Standing status for Mechanical Engineering are advised to complete Second-Year Seminar, Constitution and Distribution Requirements along with the following courses:

Mathematics - Credits: 7
• MATH 283 - Calculus III
• MATH 431 - Mathematics for Engineers and Scientists I

Engineering - Credits: 12
• EE 292 - Fundamentals of Electrical & Computer Engineering
• ME 301 - Structure and Properties of Solids
• ME 302 - Materials Mechanics
• ME 302L - Mechanical Testing Lab
• ME 319 - Introduction to Programming for Mechanical Engineers
Mechanical Engineering Advanced Standing Courses - Credits: 46

Mathematics - Credits: 3
- ME 402 - Computational Methods for Engineers

Engineering - Credits: 24
- ME 311 - Engineering Thermodynamics I
- ME 314 - Introduction to Heat Transfer
- ME 315 - Thermal Engineering Laboratory
- ME 330 - Analysis of Dynamic Systems
- ME 337 - Engineering Measurements
- ME 380 - Fluid Dynamics for Mechanical Engineers
- ME 380L - Fluid Dynamics Laboratory
- ME 423L - Instrumentation and Control Laboratory
- ME 440 - Mechanical Engineering Design
- ME 497 - Senior Design Project I
- ME 498 - Senior Design Project II

Engineering Dynamics - Credits: 6
Students must complete two out of the following three courses.
- ME 320 - Dynamics of Machines
- ME 421 - Automatic Controls
- ME 453 - Mechanical Vibrations

Design or Laboratory Elective - Credits: 1
Students must take one credit from the following list as long as it has not been used to satisfy another CAD or lab requirement.
- ME 120 - Introduction to AUTOCAD
- ME 130 - Machine Shop Practices
- ME 220 - 3D Modeling with Creo
- ME 230 - Principles of CNC
- ME 240 - 3D Modeling with Solidworks

Technical Electives - Credits: 12
Students must select and complete 12 credits of upper level mechanical engineering courses or approved upper level courses from other engineering, sciences, health sciences, or business departments.

Free Elective Requirement - Subtotal: 0 - 1 credit

Total Credits: 120-125

Notes

1. Every student must complete a three-credit Second-Year Seminar course. PHIL 242 may satisfy the three-credit Second-Year Seminar course requirement as well as three credits of the Humanities requirement for College of Engineering students only whose degree requires 120+ credits.

Mechanical Engineering

ME 100 - Introduction to Mechanical and Aerospace Engineering
Introduction to mechanical and aerospace engineering profession. Engineering problems and calculations and creativity in the design process. Ethics and professionalism in engineering design. Laboratory and machine shop demonstrations.
Credits: 2
Corequisites: ME 100L
Prerequisites: ME major.

ME 100L - Introduction to Mechanical and Aerospace Engineering Laboratory
Introduction to techniques and their practice used in the design process: sketching, dimensioning, brainstorming, decision trees, decision matrices, P.C. software packages, experimentation.
Credits: 1
Corequisites: ME 100.
Prerequisites: Pre-Engineering major.

ME 110 - Private Pilot Ground School
Preparation for the FAA’s Private Pilot Knowledge Exam. Airframes and power plants; aircraft systems and instrumentation; aerodynamics; aircraft performance; weight and balance; flight physiology; the national airspace system;
aeronautical charts; pilotage, dead reckoning and radio navigation; aviation weather; and Federal Aviation Regulations.
Credits: 4

**ME 120 - Introduction to AUTOCAD**
Introduction to two-dimensional renderings with AUTOCAD. Basic customization features such as menu modification and the addition of command aliases.
Credits: 1

**ME 130 - Machine Shop Practices**
Introduction to basic machining processes. Safety practices. Cutting theory. Use of lathe, milling machines, and other devices.
Credits: 1

**ME 220 - 3D Modeling with Creo**
Parametric, feature-based solid modeling with the PTC Creo software package.
Credits: 1

**ME 230 - Principles of CNC**
Includes the programming, setup, and use of Computer Numerically Controlled (CNC) machines. Students will learn the "G-code" programming language in addition to descriptions of the tools, equipment, and procedures special to this type of machines.
Credits: 1
Prerequisites: ME 130 with a grade of C or better.

**ME 240 - 3D Modeling with Solidworks**
Parametric, feature-based solid modeling with Solidworks software package.
Credits: 1

**ME 242 - Dynamics**
Problem course in engineering dynamics, emphasizing the engineering applications of rigid body motion and mechanisms. Kinematics, energy, momentum, and impulse momentum methods utilized.
Credits: 3

**ME 301 - Structure and Properties of Solids**
Electronic structure and bonding in solids, crystalline and noncrystalline solids, defects and their relation to properties, phase transformations, diffusion in solids, and corrosion.
Credits: 3
Prerequisites: CHEM 121A, CHEM 121L, and PHYS 180. All prerequisite courses must be completed with a grade of C or better.

**ME 302 - Materials Mechanics**
Study of the response of isotropic elastic solids to load, stress and strain of a point, elasticity, thin walled pressure vessels, torsion, bending, deflection of beams, column failure, and connections.
Credits: 3
Prerequisites: CEE 241, MATH 182, and PHYS 180-180L. All prerequisite courses must be completed with a grade of C or better.

**ME 302L - Mechanical Testing Lab**
Strain gage attachment and calibration, tensile testing of metals and non-metals, elastic constants, beam deflection and failure, torsion testing, column stability, and bolted connection testing.
Credits: 1
Prerequisites: CEE 241, MATH 182, PHYS 180, PHYS 180L. All prerequisite courses must be completed with a grade of C or better.

**ME 311 - Engineering Thermodynamics I**
Engineering applications of thermodynamics including the first and second laws, behavior of condensable and non-condensable substances, analysis of open and closed systems, equations of state, power and refrigeration cycles.
Credits: 3
Prerequisites: PHYS 181, PHYS 181L or PHYS 182,182L. All prerequisite courses must be completed with a grade of C or better.
ME 314 - Introduction to Heat Transfer
Engineering applications of heat transfer. Conduction, convection, and radiation. Introduction to heat exchangers.
Credits: 3
Prerequisites: MATH 431 ME 311, and either PHYS 181, 181L or PHYS 182, 182L. All prerequisite courses must be completed with a grade of C or better.

ME 315 - Thermal Engineering Laboratory
Laboratory studies related to heat transfer, thermodynamics, energy conversion, and HVAC applications.
Credits: 1
Prerequisites: ME 311 and ME 314 and ME 380. All prerequisite courses must be completed with a grade of C or better.

ME 319 - Introduction to Programming for Mechanical Engineers
Introduction to computer languages and computer hardware, MATLAB programming environment, MATLAB data types, MATLAB graphics, Functions, Inputs / Outputs, text processing function library, Plotting functions, Reading and writing data files, and Case Studies using different MATLAB Toolboxes.
Credits: 2
Prerequisites: MATH 182. All prerequisite courses must be completed with a grade of C or better.

ME 320 - Dynamics of Machines
Algebraic and graphical methods for synthesis of cam, gear, and linkage mechanisms; methods of planar motion analysis; characteristics of plane motion, and kinematics.
Credits: 3
Prerequisites: MATH 283, ME 242, ME 319. All prerequisite courses must be completed with a grade of C or better.

ME 330 - Analysis of Dynamic Systems
Mathematical modeling and analysis of dynamic systems with mechanical, electrical, and fluid elements. Topics include: time and frequency domain solution, state space modeling and solutions, linearization techniques, numerical solution using Matlab.
Credits: 2
Prerequisites: ME 242, MATH 431, ME 319 and Engineering Major. All prerequisite courses must be completed with a grade of C or better.

ME 337 - Engineering Measurements
Generalized measurements systems, characteristics of dynamic signals, basic transducer, signal conditioning and recording systems, applied mechanical measurements, and statistical analysis.
Credits: 3
Prerequisites: EE 292, PHYS 182, PHYS 182L. All prerequisite courses must be completed with a grade of C or better.

ME 337L - Engineering Measurements Laboratory
Laboratory instruction includes basic hardware setup of computer based data acquisition and control system and software programming skill using LabVIEW. Measurement process planning including selection of correct transducers and signal conditioning units commonly encountered in mechanical engineering.
Credits: 1
Prerequisites: EE 292, PHYS 182, PHYS 182L. All prerequisite courses must be completed with a grade of C or better.

ME 345 - Safety Engineering I
Engineering approach to safety and health problems and solutions in industries. Includes OSHA and MSHA regulations, safety problems, and equipment and design considerations for safe operations. Retrofit and original designs related to their cost-benefit and to human production factors.
Credits: 3
Corequisites: PHYS 182
Prerequisites: CHEM 121A, CHEM 121L. All prerequisite courses must be completed with a grade of C or better.
ME 380 - Fluid Dynamics for Mechanical Engineers
Introduction to fluid properties, statics, and fluid dynamics. Development of the Navier-Stokes equations for the study of flow in closed conduits, external flows, boundary layers, compressible flows, potential flows, and turbomachinery.
Credits: 3
Prerequisites: ME 242, ME 311, MATH 283, PHYS 182, PHYS 182L and Engineering major. All prerequisite courses must be completed with a grade of C or better.

ME 380L - Fluid Dynamics Laboratory
Laboratory and computer-based experiments on the dynamics of fluids including pressure in pipes, fluid properties, compressible flows, inviscid flow simulations, boundary layer measurements, usage of wind tunnels, and applications of computational fluid dynamics.
Credits: 1
Prerequisites: ME 242, ME 311, MATH 283, PHYS 182, PHYS 182L. All prerequisite courses must be completed with a grade of C or better.

ME 400 - Intermediate Fluid Mechanics
Basic laws and equations of fluid flow; very viscous flow solutions; boundary layer flows; potential flows; wave phenomena; transport phenomena; turbulence.
Credits: 3
Prerequisites: ME 380. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 600. Credit at the 600-level requires additional work.

ME 402 - Computational Methods for Engineers
Credits: 3
Prerequisites: MATH 431, ME 319. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 602. Credit at the 600-level requires additional work.

ME 409 - Turbomachinery
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.
Credits: 3
Prerequisites: ME 311 and ME 380. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 609. Credit at the 600-level requires additional work.

ME 412 - Sizing Solar Energy Systems
Covers the sizing of solar thermal and photovoltaic systems using various types of software. Design criteria are also covered. Required course of the technical branch of the renewable energy minor.
Credits: 3
Prerequisites: Junior division standing in an Engineering or Science Discipline.

ME 415 - Design of Thermal Systems
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.
Credits: 3
Prerequisites: CEE 307, ME 311, ME 314, ME 380. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 615. Credit at the 600-level requires additional work.

ME 416 - Introduction to Biomechanical Engineering
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.
Credits: 3
Prerequisites: ME 314, ME 380 and BIOL/KIN 223. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 616. Credit at the 600-level requires additional work.

ME 417 - Fuel Cell Fundamentals
Credits: 3
Prerequisites: ME 311, ME 314, ME 380. All prerequisite courses must be completed with a grade of C or better.

ME 418 - Air Conditioning Engineering Systems
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.
Credits: 3
Prerequisites: ME 311, ME 314. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 618. Credit at the 600-level requires additional work.

ME 419 - Advanced HVAC and Energy Conservation Systems
Credits: 3
Prerequisites: ME 311, ME 314. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 619. Credit at the 600-level requires additional work.

ME 421 - Automatic Controls
Introduction to feedback system concepts; mathematical modeling of mechanical, hydraulic, electromechanical and servo systems; feedback system characteristics and performance; stability; design and compensation of control systems.
Credits: 3
Prerequisites: ME 330 or EE 360, and EE 292. All prerequisite courses must be completed with a grade of C or better.

ME 421L - Automatic Controls Laboratory
Control system identification. Controller design, experimentation, computer simulation, and analysis of position and speed control systems. Control system performance optimization.
Credits: 1
Prerequisites: ME 330 or EE 360, and EE 292. All prerequisite courses must be completed with a grade of C or better.

ME 423L - Instrumentation and Control Laboratory
Basic hardware setup of computer based data acquisition and control system and software programming using LabVIEW, selection of correct transducers and signal conditioning units commonly encountered in feedback control systems in mechanical engineering, experimental model identification, feedback system
characteristics and performance, stability, design and compensation of control systems.
Credits: 1
Prerequisites: ME 337. All prerequisite courses must be completed with a grade of C or better.

ME 425 - Robotics
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.
Credits: 3
Corequisites: ME 421.
Prerequisites: ME 242, MATH 431. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 625. Credit at the 600-level requires additional work.

ME 426 - Manufacturing Processes
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.
Credits: 3
Prerequisites: Senior standing in engineering or architecture.
Notes: This course is crosslisted with ME 626. Credit at the 600-level requires additional work.

ME 427 - Manufacturing Systems
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.
Credits: 3
Prerequisites: ME 301. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 627. Credit at the 600-level requires additional work.

ME 429 - Computer Control of Machines and Processes
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.
Credits: 3
Prerequisites: ME 421 or EE 370 or equivalent. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 629. Credit at the 600-level requires additional work.

ME 430 - Corrosion Engineering
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.
Credits: 3
Prerequisites: CHEM 121A, CHEM 121L, and ME 301. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 630. Credit at the 600-level requires additional work.

ME 434 - Noise Control
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.
Credits: 3
Prerequisites: MATH 431. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 634. Credit at the 600-level requires additional work.
ME 440 - Mechanical Engineering Design
Stress analysis; deflection of machine elements; design of machine elements for static and fatigue strength.
Credits: 3
Prerequisites: ME 302 with a grade of C or better.
Notes: This course is crosslisted with ME 640. Coursework at the 600-level requires additional work.

ME 441 - Advanced Mechanical Engineering Design
Continuation of ME 440; use of advanced concepts in machine design.
Credits: 3
Prerequisites: ME 440. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 641. Credit at the 600-level requires additional work.

ME 442 - Advanced Mechanism Design
Cam design, synthesis of mechanisms, spatial mechanisms.
Credits: 3
Prerequisites: ME 320. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 642. Credit at the 600-level requires additional work.

ME 443 - Design Techniques in Mechanical Engineering
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.
Credits: 3
Prerequisites: ME 302 and ME 380. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 643. Credit at the 600-level requires additional work.

ME 446 - Composite Materials
Overview of matrix and fiber systems, processing techniques, anisotropic elasticity, unidirectional lamina, multidirectional laminate theory, failure theories, and design of composite structures.
Credits: 3
Prerequisites: ME 302 and MATH 431. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 646. Credit at the 600-level requires additional work.

ME 453 - Mechanical Vibrations
Credits: 3
Prerequisites: ME 242, ME 330. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 653. Credit at the 600-level requires additional work.

ME 454 - Physical Metallurgy
Physical metallurgy of the common engineering alloys, including carbon, low alloy and stainless steel, cast irons, copper-, nickel- and aluminum-based alloys. Relationship between composition, structure, properties, and thermal-mechanical history emphasized.
Credits: 3
Prerequisites: ME 301. All prerequisite courses must be completed with a grade of C or better.

ME 455 - Fundamentals of Nuclear Engineering
Credits: 3
Prerequisites: MATH 431, PHYS 182. All prerequisite courses must be completed with a grade of C or better.
grade of C or better.
Notes: This course is crosslisted with ME 655.
Credit at the 600-level requires additional work.

**ME 460 - High School Mentoring for Engineering Design**

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.

Credits: 3
Prerequisites: Junior standing and consent of instructor.
Notes: This course is crosslisted with ME 660.
Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

**ME 462 - Vehicle Design Projects**

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.

Credits: 3
Prerequisites: Juniors standing and consent of instructor.
Notes: This course is crosslisted with ME 662.
Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

**ME 470 - Experimental Mechanics of Materials**

Failure theories for isotropic and composite materials, stress concentration, fracture mechanics, combined loading, photo elasticity, composites fabrication, mold making, mechanical testing, and microstructural analysis.

Credits: 3
Prerequisites: ME 302 and ME 302L. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 670.
Credit at the 600-level requires additional work.

**ME 480 - Gas Dynamics**

Examines the basic concepts and theories associated with compressible fluid flow. Normal and oblique shocks, 1-D analysis, and method of characteristics discussed.

Credits: 3
Prerequisites: ME 311, ME 380. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 680.
Credit at the 600-level requires additional work.

**ME 482 - Aerodynamics**

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 mechanic analyses.

Credits: 3
Prerequisites: ME 380. All prerequisite courses must be completed with a grade of C or better.
Notes: This course is crosslisted with ME 682.
Credit at the 600-level requires additional work.

**ME 491 - Independent Study**

Independent study of a selected engineering topic.

Credits: 1-3
Prerequisites: Senior standing in engineering or consent of instructor with departmental approval.
May be repeated for a maximum of six credits.

**ME 492 - FE Exam Review Sessions for Mechanical Engineers**

Registration for the Fundamentals of Engineering Discipline-Specific Mechanical Engineering examination. Review of exam materials. Required of all graduating seniors in mechanical engineering. Attendance at the FE examination is required.

Credits: 0
Corequisites: ME 497.
Prerequisites: Senior standing.
Notes: S/F grading only.

ME 495 - Special Topics in Engineering
Outlet for experimental and other topics which may be of current interest.
Credits: 1-4
Prerequisites: Upper-division standing in engineering.
Notes: Topics and credits to be announced. May have a laboratory. This course is crosslisted with ME 695. Credit at the 600-level requires additional work.
May be repeated once under different topic.

ME 497 - Senior Design Project I
Synthesis course to involve students in the design process. Project proposal and design definition.
Credits: 2
Corequisites: Senior standing in engineering.
Prerequisites: Advanced standing and consent of instructor required.

ME 498 - Senior Design Project II
Synthesis course to involve students in the design process. Analysis, design completion, and presentation.
Credits: 2
Prerequisites: ME 497 and Engineering Major. All prerequisite courses must be completed with a grade of C or better.

ME 648 - Nanomaterials for Energy Applications
Fundamental information on various renewable energy applications, technologies and nanomaterials with an emphasis on understanding the relationships between material properties, structures and performance as well as current material and technology challenges.
Credits: 3
Notes: This course is crosslisted with ME 448. Coursework at the 600-level requires additional work.
College of Fine Arts

Purpose and Focus
The College of Fine Arts seeks to provide the highest academic standards and professional training for its students. The academic experience provided by the college heightens awareness of the physical, intellectual, and cultural world while preparing students for professional employment and/or post-graduate study in their artistic area. The faculty's reputations in their fields have brought UNLV to its rightful place as a center for the arts in the Southwest. The faculty of each department is augmented by an excellent artist-in-residence program, affording students' exposure to a wide array of artistic achievement. Students perform in the 550-seat Judy Bayley Theatre, the 300-seat Doc Rando Recital Hall, the 99 seat Black Box Theatre, the 99 seat Paul Harris Theatre, or the 2,000-seat Artemus W. Ham Concert Hall. The Donna Beam Fine Arts Gallery and a variety of fine arts studios provide students visual arts opportunities to develop their artistic skills. The departments also control movement and acting studios as well as "classroom project" concert halls. The Paul B. Sogg Architecture building has its own extensive design, studio, computer, and library facilities as well as the Downtown Design Center which exposes students to "Real World" design and planning issues. The Beam Music Center also houses the music library, recording studio, midi and computer lab, and large and small rehearsal facilities.

Accreditation
Northwest Commission on Colleges and Universities
Council of Interior Design Accreditation
Landscape Architecture Accrediting Board
National Architectural Accrediting Board (M.Arch)
National Association of Schools of Art and Design
National Association of Schools of Music

Departments, Majors, Minors and Undergraduate Degrees

College of Fine Arts
Entertainment Engineering and Design — Bachelor of Science

School of Architecture
Architecture — Bachelor of Science
Interior Architecture and Design — Bachelor of Science
Landscape Architecture — Bachelor of Landscape Architecture
Landscape Studies Minor

Department of Art
Art — Bachelor of Arts
  Painting/Drawing/Printmaking Concentration
  Photography Concentration
  Sculpture Concentration

Art — Bachelor of Fine Arts
  Painting/Drawing/Printmaking Concentration
  Photography Concentration
  Sculpture Concentration

Art History — Bachelor of Arts
Graphic Design & Media—Bachelor of Science

Department of Dance
Dance — Bachelor of Fine Arts
  Performance/Choreography
  Dance for the Professional Dancer

Dance — Bachelor of Arts
  Production/Management

Department of Film
Film — Bachelor of Arts

School of Music
Music Technology - Bachelor of Arts
Music — Bachelor of Arts
  Recital Concentration
  History and Literature Concentration
Music — Bachelor of Music
Applied Music/Piano Concentration
Applied Music/Instrumental Concentration
Applied Music/Vocal Concentration
Composition/Piano Concentration
Composition/Instrumental Concentration
Composition/Vocal Concentration
Music Education/Piano Concentration
Music Education/Instrumental Concentration
Music Education/Vocal Concentration
Jazz and Commercial Music/Composition Concentration
Jazz and Commercial Music/Instrumental/Performance Concentration
Jazz and Commercial Music/Vocal Performance Concentration

Department of Theatre
Theatre — Bachelor of Arts
Design/Technology Concentration
Stage and Screen Acting Concentration
Theatre Studies Concentration

Graduate Degree Programs
Art — Master of Fine Arts
Architecture — Master of Architecture
Film — Master of Fine Arts — Writing for Dramatic Media
Music — Master of Music, Doctor of Musical Arts
Theatre — Master of Arts, Master of Fine Arts

Minors
Art History
Dance
Dance Production & Management
Film
Landscape
Music
Pilates
Theatre

Certificate
Commercial Music Certificate 1 (specialist) in Performance
Commercial Music Certificate 2 (professional) in Performance
Commercial Music Certificate 1 (specialist) in Technology
Commercial Music Certificate 2 (professional) in Technology
Commercial Music Certificate: (specialist) in World Percussion
Pilates Training
Graduate Certificate Program in Teacher Licensure — K-12

Admission to the College
Minimum University GPA: 2.00

Admission Policies
Students who fail to meet the entrance-requirement GPA may appeal in writing to the College of Fine Arts Academic Standards Committee for consideration of any extenuating circumstances affecting their case.

Individual departments within the College of Fine Arts may have cumulative GPA requirements for their majors higher than that required by the college.

Students must satisfy department GPA requirements before being admitted to the major. Students failing to meet department GPA entrance requirements may appeal in writing to department chairpersons for consideration of any extenuating circumstances affecting their case.

Transfer Policies
Students should refer to each department or program specifically for the specific articulation of transfer credit. University policies state that a candidate for the bachelor's degree must complete the last 30 semester credits in uninterrupted residence as a major in the college from which the degree is expected.

Academic Policies
Students may not fulfill the university and college requirements with courses in their major field. No course may satisfy more than one requirement. Students fulfilling these college requirements will
simultaneously satisfy Nevada System of Higher Education (NSHE) and University of Nevada, Las Vegas, general education requirements.

A 2.70 GPA must be maintained for courses taken in the student’s major area.

**Probation/Suspension**

A student is subject to a one-semester suspension from the College of Fine Arts after being on probation (less than 2.00 UNLV GPA) for two consecutive semesters. The evaluation of the status of probation students will be made at the end of each spring semester by the dean or dean's designee.

Students wishing to appeal a college suspension may apply for relief to the College of Fine Arts Academic Standards Committee, the Faculty Senate Academic Standards Committee, and the Office of the Vice Provost for Academic Programs (in that order).

Students should consult with the dean’s office for the procedure for reinstatement following either university or college suspension.

**Advising**

All new students will initially meet with an advisor in the College of Fine Arts' Advising Center and will subsequently work with an academic advisor from the center during their freshmen and sophomore years. At the beginning of their junior year, students will meet with a faculty mentor who will then assist them with their academic plans through graduation. Additionally, each department within the college has specific advising policies articulated in their respective sections of the catalog.

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**Entertainment Engineering and Design Major (BS)**

**Entertainment Engineering and Design Major - Bachelor of Science (BS)**

Engineering is the creative application of scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. Entertainment engineering is an engineering discipline that creates the highly technical designs that the entertainment industry has come to demand. Entertainment engineering involves the application of traditional engineering disciplines including computer, electrical, mechanical and civil engineering to the art of entertainment. Please see the UNLV Entertainment Engineering and Design department web page at https://www.unlv.edu/eed for more information about department programs, faculty, and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-entertainment-eng-design-eng.

Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising or UNLV College of Engineering Advising Center at https://www.unlv.edu/engineering/advising.

**Accreditation**

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Program Objectives**

The educational objectives of the Bachelor of Science in Entertainment Engineering and Design is to educate students so that they can work in the entertainment engineering field as it applies to the design, manufacture, and control of structures, machines, processes, and systems used in the entertainment industry.
Program Goals

To achieve these objectives, the Entertainment Engineering and Design program's goals are for the graduate to possess:
1. Appropriate technical knowledge and skills
2. Appropriate fine art knowledge and skills
3. Appropriate interpersonal skills
4. The knowledge and skills to be a responsible citizen

Program Outcomes

To achieve these objectives and goals, each student of the Entertainment Engineering and Design program will attain the following outcomes before graduation:

1. Appropriate technical knowledge and skills
   1.1. An ability to apply mathematics through differential and integral calculus
   1.2. An ability to apply advanced mathematics such as differential equations, linear algebra, complex variables, & discrete mathematics
   1.3. An ability to apply knowledge of basic sciences
   1.4. An ability to apply knowledge of computer science
   1.5. An ability to apply knowledge of probability and statistics
   1.6. An ability to apply knowledge of engineering
   1.7. An ability to design a system, component, or process to meet desired needs within realistic constraints
   1.8. An ability to identify, formulate, and solve engineering problems
   1.9. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
   1.10. An ability to design and conduct experiments, as well as to analyze and interpret data

2. Appropriate fine art knowledge and skills
   2.1. An ability to use technology to communicate through art
   2.2. An ability to express visual concepts and ideas in a creative manner at a professional level
   2.3 An ability to demonstrate appropriate technical knowledge and skills of various artistic mediums

3. Appropriate interpersonal skills
   3.1. An ability to function on multidisciplinary teams
   3.2. An ability to communicate effectively

4. The knowledge and skills to be a responsible citizen
   4.1. An understanding of professional and ethical responsibility
   4.2. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, & societal context
   4.3 A recognition of the need for, and an ability to engage in life-long learning
   4.4 A knowledge of contemporary issues

University Graduation Requirements

- Please see Graduation Policies for complete information

Entertainment Engineering and Design Degree Requirements - Total: 120 Credits

(see notes 1-5 below)

General Education Requirements - Subtotal: 31-34 Credits
First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

(See note 5 below)

- PHIL 242 - Ethics for Engineers and Scientists

Constitutions - Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Or a combination of:

**US Constitution**
- HIST 101 - United States: Colonial Period to 1877

**NV Constitution**
- PSC 100 - Nevada Constitution

Mathematics - Credits: 4

- MATH 181 - Calculus I

Distribution Requirement - Credits: 15

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 credits**
  - PHIL 242 - Ethics for Engineers and Scientists (see note 5)
  - One course in Humanities (see note 3)
  - ART 101 - Drawing I

- **Social Science: 6 credits**
  - CEE 307 - Engineering Economics

  - One additional Social Science course from an area other than economics (see note 4)

- **Life and Physical Sciences and Analytical Thinking:**
  - Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

(see note 3 and 4)

Major Requirements - BS in Entertainment Engineering and Design Major - Subtotal: 86 Credits

Required Mathematics, and Natural Science Courses - Credits: 25

Specific Courses Required:

**Required Mathematics Courses - Total Credits: 14**

- MATH 182 - Calculus II
- MATH 283 - Calculus III
- MATH 431 - Mathematics for Engineers and Scientists I
- STAT 463 - Applied Statistics for Engineers

**Required Natural Science Courses - Total Credits: 8**

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
Required Mathematics/Science Elective Courses - Total Credits: 3
Choose one course from the approved list of math/science courses.

Required EED Seminars - Credits: 3
- EED 100 - Entertainment Engineering and Design Seminar I
- EED 200 - Entertainment Engineering and Design Seminar II
- EED 300 - Entertainment Engineering and Design Seminar III

Required Entertainment Design Fundamental Courses - subtotal Credits: 46

Required Civil Engineering Courses - Credits: 14
- CEE 241 - Statics
- CEE 367 - Fluid Mechanics
- CEE 370 - Engineering Mechanics of Deformable Bodies
- CEE 370L - Engineering Mechanics of Deformable Bodies Laboratory
- CEE 381 - Structural Analysis I

Required Computer Science Courses - Credits: 3
- CS 135 - Computer Science I

Required Computer Engineering Courses - Credits: 3
- CpE 100 - Digital Logic Design I

Required Electrical Engineering Courses - Credits: 3
- EE 292 - Fundamentals of Electrical & Computer Engineering

Required Mechanical Engineering Courses - Credits: 5
- ME 242 - Dynamics
- ME 330 - Analysis of Dynamic Systems

Required Entertainment Design Courses - Credits: 15
- EED 110 - Material Science and Fabrication Techniques
- EED 111 - Basic Kinetic Structures
- EED 210 - Multi-Media Design
- EED 220 - Design for Live Entertainment
- EED 250 - History of Entertainment and Technology

Required Capstone - Credits: 3
- EED 497 - Senior Design I
- EED 498 - Senior Design II

Engineering Tracks - Credits: 12
Each student must complete two of the tracks listed below:

Structural Engineering - Credits: 6
- CEE 346 - Civil Engineering Materials
- CEE 444 - Steel Structural Design
- CEE 482 - Design of Timber Structures

Acoustics - Credits: 6
- ME 434 - Noise Control
- MUS 231 - Recording Technology I
- EED 217 - Entertainment Sound I

Robotics - Credits: 6
- EE 370 - Control Systems I
- EE 370L - Control Systems I Laboratory
- ME 425 - Robotics

Systems & Live Entertainment - Credits: 6
- EED 330 - Programmable Systems for the Entertainment Industry
- EED 431 - Control Systems for the Entertainment Industry
- EED 442 - Animatronics Techniques

Electives Credits: 0-3
Total Credits: 120-123

Notes
Regardless of catalog of graduation, students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.

1. All prerequisite courses must be completed with
a grade of C or better before the subsequent course can be taken.

2. All courses counted towards the degree must be completed with a grade of C or better.

3. The one 3-credit humanities elective should be selected to satisfy the Multicultural or International requirement.

4. The one 3-credit social science elective should be selected to satisfy the Multicultural or International requirement.

5. PHIL 242 will simultaneously satisfy both a humanities requirement and the Second Year Seminar requirement for students obtaining a degree from the College of Engineering that requires more than 120 credits.

**CFA 100 - First Year Symposia**
An Interdisciplinary First Year Seminar with topics and fields of study selected on a rotating basis. Through exposure, immersion and active participation in multiple disciplines comprising the College of Fine Arts, the student will be able to assess and interpret how historic and multicultural movements in Art, Architecture, Dance, Film, Music and/or Theatre continue to inform and influence the Fine Arts today.

Credits: 3
Notes: Fulfills First Year Seminar requirement.

**CFA 101 - Introduction to Environmental Design**
This survey focuses on historical, theoretical, social, technical, and environmental forces that shape the design professions. Especially for majors and non-majors who wish to explore this field as a career choice.

Credits: 3
Notes: Fulfills First Year Seminar requirement.

**CFA 102 - Perspectives in Popular Music - Freshman Year Seminar**
Study the origins of popular music through listening assignments, group discussions, readings and quizzes, research, live music review, and a final exam. This course encompasses musical, historical, political and sociological aspects and introduces incoming first-time freshmen to university practices, expectations and resources, and helps create a successful transition to UNLV.

Credits: 3
Prerequisites: Freshman Standing
Notes: Fulfills First Year Seminar requirement.

**CFA 103 - Survey of Dance**
In depth studies in dance and related topics. This course is designed to foster the individual's understanding of academia and the learning strategies and study skills that emphasize critical and divergent thinking, inquiry, and creativity. Through a series of global topics; social awareness and political tolerance will be encouraged. The course embraces artistic, cultural, intellectual, ethical, and spiritual differences through mutual respect, research, discussion and presentations. These will include the importance of diversity and inclusivity. Furthermore students will be provided insight into the institution's academic offerings and the role that dance offers in societies around the world.

Credits: 3
School of Architecture

Purpose and Focus
The School of Architecture provides professional and continuing education in the design professions of architecture, landscape architecture, interior architecture and design, and urban and regional planning. In addition to addressing the theoretical and pragmatic aspects of general design education, the school focuses upon the important design issues facing Las Vegas, Nevada, and the Southwest: resort and entertainment design, sustainable desert development, speculative development, and climatic and cultural issues relevant to arid regions.

Vision
The UNLV School of Architecture is a diverse and dynamic learning environment that offers professional education in socially and environmentally responsible design. The school capitalizes on its unique regional location to improve the human condition through teaching, research, and service.

Accreditation
Northwest Commission on Colleges and Universities
Council for Interior Design Accreditation
Many states in the United States and most provinces in Canada have legal registration laws regulating the title or the practice of an interior designer. The rationale for licensing addresses the distinct and different expertise of professional qualifications. Licensing qualifications in Nevada, as in many other states and provinces, require graduation from a CIDA accredited interior design program (the Council for Interior Design Accreditation is recognized as the reliable authority on interior design education by the Council for Higher Education Accreditation), with a minimum of two years of work experience in the field, and passage of the NCIDQ Examination (the National Council for Interior Design Qualification is the recognized examination body in interior design), or an equal examination such as the Architectural Registration Examination.

The Council of Interior Design Accreditation (CIDA) is an international organization that accredits professional interior design education programs in the United States and Canada. Its primary purpose is to ensure a high level of quality in interior design education to meet the needs of students, the interior design profession, and society.

The UNLV Bachelor of Science in Interior Architecture and Design program was last reviewed and reaccredited by CIDA in 2014. The next CIDA accreditation visit is scheduled for 2020.

Landscape Architectural Accreditation Board
Most states, including Nevada, require graduation from an accredited landscape architecture program plus two years’ professional experience prior to sitting for state board examinations. Once candidates have passed state board examinations, they are eligible to become licensed landscape architects.

The Landscape Architectural Accreditation Board (LAAB) reviews programs regularly (up to every six years depending on the LAAB Board recommendation). The UNLV Bachelor of Landscape Architecture program was last reviewed and reaccredited by LAAB in 2009.

National Architectural Accrediting Board (M.Arch.)
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. (preprofessional degree + 48 graduate credits)
- M. Arch. (non-preprofessional degree + 48-96 credits)

Next accreditation visits for all programs: 2025

**Undergraduate Majors**
- Architecture
- Interior Architecture and Design
- Landscape Architecture

**Admission to the Major**
Minimum University GPA: 3.00

**Admission Policies**
Admission to the first year programs of the School of Architecture is open to all UNLV students. Students may choose to major in any of the school’s four design programs. Admission to School of Architecture second year studio programs is competitively based on a student’s grade point average and successful completion of first year studies.

Before a student may enroll in upper-division courses, including studio, within the School of Architecture, each student must gain approval by the Faculty Review Committee. Admittance to upper division is based upon a faculty review of:

1. Successful completion of all required courses in lower-division studies and the achievement of a minimum of 3.00 grade point average (see Major Degree Requirements in the current Undergraduate Catalog and the current degree sheet for your major);
2. Completed School of Architecture Application for Upper-Division form;
3. A portfolio of creative work;
4. A written statement describing your professional interest and career development opportunities as you pursue any of the three design professions offered by the SOA.

The application deadline for AAD program is March 15 of each year. ARC and LAND deadlines are the first Monday after spring semester final exams week.

Each application is checked for compliance with the minimum requirements prior to ranking by the review committee. Incomplete applications will not be accepted.

**Transfer Policies**
Transfer students applying for upper-division programs of the school from other institutions must submit the following to be considered for admission based upon faculty review:

1. Portfolio of design work that demonstrates graphic skills, model-making skills, basic two- and three-dimensional composition, basic understanding of spatial organization, understanding of color, and basic site and handicap accessibility planning;
2. Completed School of Architecture Application for Upper Division form including documentation and description of community service and/or professional experience.
3. A creative or research essay produced for any course, or an essay as defined by the School of Architecture faculty annually.

4. Letter of professional intent.

5. Official transcripts from other institutions previously attended.

While the university accepts credits transferred from other accredited institutions, transfer credits are not applied to the School of Architecture programs until reviewed and accepted by this unit. Transfer credits for required program courses must be from NAAB-, CIDA-, or LAAB- accredited institutions. Transfer course work must be equivalent in both content and level of offering. In addition, a faculty review of samples of work (or portfolio of work) from previous studio or laboratory classes is required.

**Department Policies**

Attendance at classes, laboratories, studios, and seminars is required. If excessive absences are noted in a particular course, the student will be notified in person and by letter that he or she will be administratively withdrawn if further unexcused absences are noted. If further absences occur after notification, the student will be withdrawn from the course and the program.

All lower-division design studios must be taken in sequence. With the consent of instructor and program advisor, an upper-division student in one design program may substitute one upper-division studio in another design program, except that students in the Architecture program may substitute another upper-division studio only for AAE 482.

The School of Architecture reserves the right to retain, photograph, or record any or all student projects for the program's future use or publication.

Courses in the School of Architecture are graded with a letter grade with pluses and minuses. Grades received from UNLV or other institutions are also evaluated for letter grades only in determining grade point averages for admission to the program's upper division.

Upper-division students in the School of Architecture design programs are required to complete a 200-hour internship with a professional design firm.

Because the school's upper-division programs are sequential, and space in the program is limited, students are encouraged to progress through the curriculum with their class.

All students are required to have a laptop computer by the beginning of their second year of enrollment in the School of Architecture program. A recommended list of laptop configurations and program software is available from the School of Architecture front office and the School of Architecture website.

**Probation**

Students in the lower-division program who are placed on probation must observe rules or limitations that the School of Architecture imposes on their probation as a condition of retention. If after one semester on probation an overall grade point average of at least 2.50 has not been achieved and/or the conditions of probation have not been met, the student will be disqualified from enrollment in School of Architecture courses. Appeals may be made to the Program Standards Committee before the beginning of the following semester. See university retention standards.

Students in upper-division programs are placed on probation when they incur any of the following:

1. Failure, incomplete, or withdrawal from any required course.
2. A semester GPA below 2.50.
3. A grade of below C- in any course required for a major.
4. Violation of the university code of student responsibility and/or any admission
Students on program probation must observe rules limitations that the School of Architecture and the Planning Standards Committee place on their probation as a condition of continuation. Students will be removed from programs if:

1. After one semester on probation, the requirements imposed are not met and/or the overall GPA is not above 2.50.
2. Failures or withdrawals in required courses are not resolved at the next offering of the course or if failures or withdrawals from required sequential courses are not resolved.
3. Incompletes in required sequential courses are not completed before the first day of class of the next semester.
4. Any course required for a major in which a grade less than C- is received must be retaken with an earned grade of C- or above. For design studio courses, this must be accomplished prior to progressing to the next studio level.

Students removed from programs are not guaranteed reinstatement in the program even if probation requirements or requirements necessary for readmission after removal from a program are fulfilled. Appeals may be made to the Program Standards Committee.

Advising

Lower-division students will be assigned to an academic advisor upon entering the School of Architecture. When accepted into the upper-division design programs, students will be advised by the program coordinator or a designated faculty member.

**Architecture**

**AAD 125L - Construction Drawings and Detailing**
For persons with previous basic drafting skills or office experience. Advanced drafting and detailing techniques for buildings.
Credits: 2

**AAD 180 - Design Foundation I**
Students are introduced to fundamentals of design principles. Emphasis will be placed on the development of conceptual ideas through experimentation across a range of media and creative processes.
Credits: 3
Prerequisites: Admittance to a School of Architecture.
Notes: Same as LAND 180, AAI 180.

**AAD 182 - Fundamentals of Design II**
This course introduces studio based design exploration, fundamentals of 2D and 3D composition, architectural drawing and modelling skills. Students will be introduced to architectural concepts of tectonics, architectural space and historic precedents.
Credits: 3

**AAD 201 - History of the Built Environment/Discussion**
Relationships among art, architecture, and literature (fiction and non-fiction) from the twenty-fifth century BCE to the present. Emphasis on the built environment as a manifestation of cultural forces and design aesthetics.
Credits: 3
Corequisites: AAD 201D
Prerequisites: ENG 102.
AAD 201D - History of the Built Environment/Discussion
Relationships among art, architecture, and literature (fiction and non-fiction) from the twenty-fifth century BCE to the present. Emphasis on the built environment as a manifestation of cultural forces and design aesthetics.
Credits: 0
Corequisites: AAD 201.
Prerequisites: ENG 102.

AAD 202 - Analysis of the Built Environment
Exploration of space and form-making through examination of historical precedent. Emphasis on developing a visual vocabulary and understanding of the built environment as cultural creation.
Credits: 3
Prerequisites: AAD 201 / AAD 201D with grade of C- or better.

AAD 223 - Graphic Software for Architects, Constructors, Designers, and Planners I
Survey of design graphics application systems. Special emphasis to be placed on the technical aspects of creating computer graphic images for architectural, construction, design, and planning applications.
Credits: 3
Prerequisites: Admission to a School of Architecture major.

AAD 267 - Introduction to Digital Media
Introduction to two and three-dimensional digital design processes.
Credits: 3
Prerequisites: Admission to the major.
Notes: Same as LAND 267.

AAD 367 - Advanced Digital Media
Examination of advanced geometric modeling and introduction to basic parametric thinking, development of robust drawing typologies, computer generated renderings, and board compositions.
Credits: 3
Prerequisites: AAD 267
Notes: Same as LAND 367

AAD 400 - Clinical Internship
Full-time internship under the supervision of registered practitioners or equivalent.
Credits: 0
Prerequisites: Admission to major.
Notes: Two hundred hours required. This course is crosslisted with AAD 600. Credit at the 600-level requires additional work.

AAD 401 - Study Abroad in Design:
Part of the International Studies Program. Topics vary from semester to semester.
Credits: 1-6
Prerequisites: Consent of School of Architecture Director.
Notes: Approval of program director required. May be repeated to an indefinite number of credits.

AAD 412 - Elements of Architectural Expression: Colors & Materials
Creative use of colors and materials as elements of architectural expression. Role of materials and colors, and relationship between their nature and possible uses.
Credits: 3
Prerequisites: Upper-division standing.

AAD 421A - Entertainment and Fine Arts Law 1
Protection of works created by entertainers, artists, and designers, 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 considerations to film and music industries.
Credits: 3
Prerequisites: Upper division standing.
Notes: Same as ART 428, DAN 421A, MUS 444*, THTR 421A.
AAD 421B - Entertainment and Fine Arts Law II
Unique legal issues in the fields of live stage performance, Theater, 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.
Credits: 3
Prerequisites: AAD 421A, ART 428, DAN 421A, MUS 444*, or THTR 421A.
Notes: Same as ART 429, DAN 421B, MUS 455*, THTR 421B.

AAD 466 - 3-D Presentation Graphics
Simple animated visualizations of designs for the built environment.
Credits: 3
Prerequisites: AAD 267 or equivalent.

AAD 467 - 3-D Animation Graphics
Advanced animated visualizations of designs for the built environment.
Credits: 3
Prerequisites: AAD 466.

AAD 493 - Independent Study
Independent study of a selected topic in architectural history and communication.
Credits: 1-3
Prerequisites: Admission to major.
May be repeated to a maximum of six credits.

AAD 495 - Special Topics in Design
Experimental and other topics of current interest in design.
Credits: 1-4
Prerequisites: Consent of instructor.
Notes: Topics and credits to be announced.
May be repeated to a maximum of eight credits.

AAD 100 - Introduction to Architecture
This survey of architectural design focuses on historical, theoretical, social, technical, and environmental forces that shape the design profession. This course is for majors and non-majors who wish to explore this field as a career choice. Collaborative design communication skills are learned and applied in course design challenges.
Credits: 3
Notes: Same as AAI 100, LAND 100. Satisfies Fine Arts Requirement.

AAE 280 - Design Foundation II
Students continue their inquiry into fundamentals of design principles. Emphasis will be placed on the interconnection between concepts and applications using various programmatic, topological, and technological themes.
Credits: 6
Prerequisites: AAD 180
Notes: Same as LAND 280, AAI 280.

AAE 282 - Design Foundation III
Students incorporate advanced fundamentals of design principles, concepts and applications. Emphasis will be placed on developing a student's critical ability and approach to design, using various programmatic, topological, and technological themes related to physical and cultural contexts.
Credits: 6
Prerequisites: AAE 280.
Notes: Same as AAI 282, LAND 282

AAE 330 - Design with Climate
Effect of climate on energy uses in buildings, architectural design, and occupants' comfort. Covers basic climatic design principles including passive solar design, site analysis, heat transfer, daylighting, and acoustics.
Credits: 3
Prerequisites: AAE 280.

AAE 380 - Architectural Design I
Intermediate studies in architectural design exploring the relationships between various programmatic models, normative building types, and technological themes within specific physical, urban, and cultural contexts.
Credits: 6
Prerequisites: AAE 282 and admission to upper division.

**AAE 382 - Architectural Design II**
Intermediate studies in architectural design exploring the relationships between various programmatic models, normative building types, and technological themes within specific physical, urban, and cultural contexts.
Credits: 6
Prerequisites: AAE 380.

**AAE 385 - Developing Sustainable Design**
Exploration of sustainable design emphasizing application of analytical, conceptual, and representational skills within projects that engage cultural, ecological, technological, and urban contexts.
Credits: 3
Prerequisites: AAE 330, LAND 330.

**AAE 451 - Multidisciplinary Theory and History in Architecture**
Exploration 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.
Credits: 3
Prerequisites: AAD 202

**AAE 453 - 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.
Credits: 3
Prerequisites: Admission to upper division.
Notes: This course is crosslisted with AAE 653. Credit at the 600-level requires additional work.

**AAE 454 - Architecture and the New Urbanism**
Examination of New Urbanism and its implications for architectural design practices.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with AAE 654. Credit at the 600-level requires additional work.

**AAE 455 - The Enlightenment to Mid-20th Century: Architectural History 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.
Credits: 3
Prerequisites: AAD 202 and upper division standing.

**AAE 456 - Twentieth-Century Architectural History and Theory**
Exploration of the major theoretical and historical movements of the twentieth century that have influenced architectural practices including contemporary critical theories.
Credits: 3
Prerequisites: AAE 455.

**AAE 457 - Architecture in Las Americas**
Latin American and Latino architectural issues as represented in mainstream practices.
Credits: 3
Prerequisites: Admission to upper division.
Notes: Satisfies the Multicultural Requirement. Credit at the graduate-level requires additional work; this course is crosslisted with AAE 657.

**AAE 458 - History of Renaissance and Baroque Architecture**
Architecture of Europe from 1400 to 1800.
Credits: 3
Prerequisites: AAD 201/AAD 201D and AAD 202, or ART 260 and ART 261.
Notes: Same as ART 466*. 
AAE 459 - Design and Development
Survey of the economic and political influences upon the development of building projects and building types.
Credits: 3
Prerequisites: AAE 382.
Notes: (Same as AAI 459 and AAL 459.)

AAE 460 - 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.
Credits: 3
Prerequisites: AAE 382 and AAE 481.
Notes: This course is crosslisted with AAE 660. Credit at the 600-level requires additional work.

AAE 461 - Construction Documents and Specifications
Instruction in the development of construction document and specifications skills. Emphasizes 16-Division Construction Specifications Institute (CSI) system. Computer applications; projects; research paper.
Credits: 3
Prerequisites: ABS 321.

AAE 480 - Architectural Design III
Advanced studies in architectural design emphasizing application of analytical, conceptual, and representational skills within projects that engage cultural, urban, ecological, technological, and urban contexts.
Credits: 6
Prerequisites: AAE 382.

AAE 481 - Architecture, Place and Identity
Cultural dimensions of architecture and the city. Examining various issues confronting architectural professionals ranging from gender and diversity, multiculturalism, race and ethnicity, and the politics of identity.
Credits: 3

AAE 482 - Architectural Design IV
Advanced studies in architectural design emphasizing application of analytical, conceptual, and representational skills within projects that engage cultural, urban, ecological, technological, and urban contexts.
Credits: 6
Prerequisites: AAE 480.

AAE 485 - Non-Western Settlements
Study of non-Western design throughout the world. Examination of cultural, historical, and geographical determinants in the construction of a specific design. Consideration of the impact of multicultural activities. Investigation from supplemental disciplines like sociology, anthropology, and urban geography.
Credits: 3
Prerequisites: Minimum junior standing.
Notes: Satisfies International Requirement. Credit at the 600-level requires additional work.

AAE 493 - Independent Study
Independent study of a selected topic in architectural design.
Credits: 1-3
Prerequisites: Consent of instructor and minimum junior standing.
May be repeated to a maximum of six credits.

AAE 495 - Special Topics in Architectural Design
Experimental and other topics which may be of current interest in the area of architectural design.
Credits: 1-4
Prerequisites: Consent of instructor and minimum junior standing.
Notes: Topics and credits to be announced. May be repeated to a maximum of eight credits.

AAE 496 - Special Topics in Architectural History and Theory
Topics of current interest in architectural history and theory.
Credits: 1-3
Prerequisites: Minimum junior standing.
Notes: Topics and credits to be announced. May be repeated to a maximum of nine credits.
Interior Architecture and Design Major (BS)

Interior Architecture and Design Major - Bachelor of Science (BS)
Please see the UNLV College of Fine Arts - Department of Interior Architecture & Design web page at www.unlv.edu/architecture/bs-idad for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-interior-architecture-design.

Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - Council for Interior Design Accreditation accredit-id.org/

Learning Objectives
Global Perspective on Design
• Entry level designers have a global view and weigh design decisions within the parameters of ecological, socio-economic, and cultural contexts.
  ▪ Student work demonstrates understanding of the concepts principles, and theories of sustainability as they pertain to building methods, materials, systems and occupants.
  ▪ Students understand the implications of conducting the practice of design within a world context and, how design need may vary for a range of socio-economic stakeholders.

Human Behavior
• The work of interior designers is informed by knowledge of behavioral science and human factors.
  ▪ Students understand that social and behavioral norms may vary from their own and are relevant to making appropriate design decisions.
  ▪ Student work demonstrates the ability to appropriately apply theories of human behavior, to select, interpret and apply appropriate anthropometric data, and appropriately apply universal design concepts.

Design Process
• Entry-level designer need to apply all aspects of the design process to creative problem solving. Design process enables designers to identify and explore complex problems and generate creative solutions that support human behavior within the interior environment.
  ▪ Students are able to:
    ▪ Identify and define relevant aspects of a design problem (goals, objectives, performance criteria)
    ▪ Gather, evaluate, and apply appropriate and necessary information and research findings to solve the problem (pre-design investigation)
    ▪ Synthesize information and generate multiple concepts and/or multiple design responses to programmatic requirements.
    ▪ Demonstrate creative thinking and originality through presentation of a variety of ideas,
approaches, and concepts.

Collaboration
• Entry-level interior designers engage in multi-disciplinary collaborations and consensus building.
  o Students have awareness of team structures and dynamics, and the nature and value of integrative design practice.

Communication
• Entry level designers are effective communicators
  o Students apply a variety of communication techniques and technologies appropriate to a range of purposes and audiences
  o Students are able to:
    ▪ Express ideas clearly in oral and written communication
    ▪ Use sketches as design and communication tools
    ▪ Produce competent presentation drawings across a range of appropriate media
    ▪ Produce competent contract documents including coordinated drawings, schedules, and specifications appropriate to project size and scope and sufficiently extensive to show how design solutions and interior construction are related.
    ▪ Integrate oral and visual material to present ideas clearly.

Professional and Business Practice
• Entry level interior designers use ethical and accepted standards of practice, are committed to professional development and the industry, and understand the value of their contribution to the built environment.
  o Students understand:
    ▪ The contributions of interior design to contemporary society
    ▪ Various types of design practices
    ▪ The elements of business practice (business development, financial management, strategic planning, and various forms of collaboration and integration of disciplines)
    ▪ The elements of project management, project communication, and project delivery methods.
    ▪ Professional ethics.

History
• Entry-level interior designers apply knowledge of interiors, architecture, art, and the decorative arts within a historical and cultural context.
  o Students understand the social, political, and physical influences affecting historical changes in design of the built environment.
  o Students understand:
    ▪ Movements and periods in interior design and furniture
    ▪ Movements and traditions in architecture
    ▪ Stylistic movements and periods of art
  o Students apply historical precedent to inform design solutions

Space and Form
• Entry-level interior designers apply elements and principles of two- and three-dimensional design.
Students effectively apply the elements and principles of design to
- Two-dimensional design solutions
- Three-dimensional design solutions
Students are able to evaluate and communicate theories or concepts of spatial definition and organization.

Color
- Entry level interior designers apply color principles and theories.
  - Student work demonstrates understanding of:
    - Color principles, theories and systems.
    - The interaction of color with materials, texture, light, form and the impact on interior environments.
  - Students:
    - Appropriately select and apply color with regard to its multiple purposes.
    - Apply color effectively in all aspects of visual communication (presentations, models, etc.)
- Entry-level interior designers select and specify furniture, fixtures, equipment and finish materials in interior spaces.
  - Students have awareness of:
    - A broad range of materials and products
    - Typical fabrication and installation methods, and maintenance requirements.
  - Students select and apply appropriate materials and products on the basis of their properties and performance criteria, including ergonomics, environmental attributes, and life cycle cost.
Students are able to layout and specify furniture, fixtures, and equipment.

Environmental Systems and Controls
- Entry-level interior designers use the principles of lighting, acoustics, thermal comfort, and indoor air quality to enhance health, safety, welfare, and performance of building occupants.
  - Students:
    - Understand the principles of natural and electric lighting design.
    - Competently select and apply luminaires and light sources.
  - Students understand:
    - The principles of acoustical design.
    - Appropriate strategies for acoustical control.
  - Students understand:
    - The principles of thermal design
    - How thermal systems impact interior design solutions.
  - Students understand:
    - The principles of indoor air quality
    - How the selection and application of products and systems impact indoor air quality.

Interior Construction and Building Systems
- Entry-level interior designers have knowledge of interior construction and building systems.
  - Student work demonstrates understanding that design solutions affect and are impacted by:
- Structural systems and methods
- Non-structural systems including ceilings, flooring and interior walls
- Distribution systems including power, mechanical, HVAC, data/voice, telecommunications, and plumbing
- Energy, security, and building control systems,
- The interface of furniture with distribution and construction systems
- Vertical circulation systems
  - Students are able to read and interpret construction drawings and documents.

**Regulations**
- Entry-level interior designers use laws, codes, standards, and guidelines that impact the design of interior spaces.
  - Students have awareness of:
    - Sustainability guidelines
    - Industry-specific regulations.
  - Student work demonstrates understanding of laws, codes, standards, and guidelines that impact fire and life safety, including:
    - Compartmentalization: fire separation and smoke containment
    - Movement: access to the means of egress including stairwells, corridors, exit ways.
    - Detection: active devices that alert occupants including smoke/heat detectors and alarm systems.
    - Suppression: devices used to extinguish flames including sprinklers, standpipes, fire hose cabinets, extinguishers, etc.
  - Students apply appropriate federal, state/provincial, and local codes, and standards, and accessibility guidelines.

**University Graduation Requirements**
- Please see Graduation Policies for complete information.

**Interior Architecture and Design Degree Requirements - Total: 121-123 Credits**

**General Education Requirements - Subtotal: 40-43 Credits**

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: 5-6

- MATH 126 - Precalculus I
  Note: MATH 126 & MATH 127 may be an alternative to MATH 128

Distribution Requirements - Credits: 19

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts:**
  - Automatically satisfied by Major requirements

- **Social Science: 9 credits**
• One course each from three different fields
  (See note 1 below)
• Life and Physical Sciences and Analytical Thinking: 10 credits
  • Two courses from Life and Physical Science; at least one course must have a lab
    ▪ PHIL 102 - Critical Thinking and Reasoning
    ▪ PHYS 151 - General Physics I
    ▪ PHYS 151L - General Physics I
    ▪ Physical Science Elective

Multicultural and International
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirement - BS in Interior Architecture and Design - Subtotal: 81 Credit

  Humanities and Fine Arts Electives: 6 Credits
  • AAD 201 - History of the Built Environment/Discussion
  • AAD 201D - History of the Built Environment/Discussion
  • ART 160 - Art Appreciation
  • ART 260 - Survey of Art History I
  
  • ART 261 - Survey of Art History II
  or
  • ART 266 - Survey of Art History III

Pre-approved Elective: 3 Credits

Lower Division Design Core Courses: 21 Credits

• AAI 180 - Design Foundation I
• AAD 267 - Introduction to Digital Media
• AAI 280 - Design Foundation II
• AAI 282 - Design Foundation III
• AAD 466 - 3-D Presentation Graphics

Upper Division Design Core Courses: 51 Credits
• AAI 322 - Interior Construction and Detailing
• AAI 323 - Interior Construction Documents and Specifications
• AAI 332 - Interior Architectural Systems
• AAI 353 - History of Architectural Interiors I
• AAI 354 - History of Architectural Interiors II
• AAI 373 - Interior Design I
• AAI 374 - Interior Design II
• AAI 400 - Professional Internship
• AAI 450 - Designed Environment and Human Behavior
• AAI 473 - Interior Design III
• AAI 474 - Interior Design IV
• AAI 491 - Professional Practice
• ABS 321 - Construction Technologies I
• ABS 443 - Interior Lighting Design

Pre-Approved Electives - Credits: 0-5

Total Credits: 120

Notes:

1. Social Science:
   Social Science Elective
   Social Science Elective (International Studies)
   Social Science Elective (Multicultural Studies)
   Note: Courses satisfying social science or other requirements may simultaneously satisfy the multicultural and international requirements if they appear on the approved lists. One course cannot, however, satisfy both the multicultural and international requirements. For the list of approved multicultural and international courses visit: http://facultysenate.unlv.edu/students.
*Interior Architecture and Design*

**AAI 100 - Introduction to Interior Design**
Survey of interior design. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice.
Credits: 3
Notes: Same as AAE 100, LAND 100. Satisfies Fine Arts Requirement.

**AAI 180 - Design Foundation I**
Students are introduced to fundamentals of design principles. Emphasis will be placed on the development of conceptual ideas through experimentation across a range of media and creative processes.
Credits: 3
Prerequisites: Admission to the School of Architecture.
Notes: Same as AAD 180, LAND 180.

**AAI 270 - Design Communication**
Development of fundamental design communication skills and knowledge integral to complex process of design decision making. Experimental exploration of theories and applications of methodologies basic to the development of design concepts and two- and three-dimensional representation of design products.
Credits: 6
Prerequisites: Admittance to major, junior standing or above, minimum 3.00 GPA, and permission of School of Architecture Director.
Notes: Same as AAL 270.

**AAI 280 - Design Foundation II**
Students continue their inquiry into fundamentals of design principles. Emphasis will be placed on the interconnection between concepts and applications using various programmatic, topological, and technological themes.
Credits: 6
Prerequisites: AAI 180
Notes: Same as LAND 280

**AAI 282 - Design Foundation III**
Students incorporate advanced fundamentals of design principles, concepts and applications. Emphasis will be placed on developing a student's critical ability and approach to design, using various programmatic, topological, and technological themes related to physical and cultural contexts.
Credits: 6
Prerequisites: AAI 280.
Notes: Same as LAND 282

**AAI 322 - Interior Construction and Detailing**
Detailed study of the properties and selective technical applications of finish materials in building interiors. Implications of these for the ecological conscious design of interior spaces and the development of industry standard-compliant construction details and installations.
Credits: 3
Prerequisites: AAI 280.

**AAI 323 - Interior Construction Documents and Specifications**
Preparation methods of effective specifications guided by an understanding of regulations, standards, and material selection criteria. Comprehensive coverage of legal, industry regulatory, contractual, and construction issues critical to construction documents and specifications.
Credits: 3
Corequisites: AAI 374
Prerequisites: AAI 373

**AAI 332 - Interior Architectural Systems**
Human comfort considerations in indoor thermal environment, 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 353 - History of Architectural Interiors I  
Design of interior spaces as expression of cultural influences to 1900.  
Credits: 3  
Prerequisites: AAD 201/AAD 201D.

AAI 354 - History of Architectural Interiors II  
Design of interior spaces as expression of cultural and technological influences, 1900 to present.  
Credits: 3  
Prerequisites: AAD 201 and AAD 201D

AAI 373 - Interior Design I  
Studio problems in interior design related to behavioral response in personal and small group spaces.  
Credits: 6  
Prerequisites: AAI 282, admission to upper division of major.  
Notes: Emphasis on color and materials selection.

AAI 374 - Interior Design II  
Studio problems in interior design with emphasis on public and private use of interior places of assembly.  
Credits: 6  
Prerequisites: AAI 373 and admission to major.

AAI 400 - Professional Internship  
Professional work experience in approved architecture, design, corporate, or government office. Supervision is provided by both the Interior Architecture Program Coordinator and the cooperating agency. Registration for course requires Program Coordinator approval.  
Credits: 0

AAI 450 - Designed Environment and Human Behavior  
Effects of interior spaces, architecture, and urban settings on human well-being and functioning.  
Credits: 3  
Corequisites: AAI 473

Notes: This course is crosslisted with AAI 650. Credit at the 600-level requires additional work.

AAI 455 - Facilities Planning & Design  
Critical aspects of planning/design of the workplace. Addresses real estate use, effective space management through programming and master planning, forecasting, projections, workflow processes and efficiencies.  
Credits: 3  
Prerequisites: AAI 373.  
Notes: This course is crosslisted with AAI 655. Credit at the 600-level requires additional work.

AAI 459 - Design and Development  
Survey of the economic and political influences upon the development of building projects and building types.  
Credits: 3  
Prerequisites: AAE 382.  
Notes: Same as AAE 459 and AAL 459.

AAI 472 - Exhibition Design  
Design of three-dimensional micro environments for exhibitions in temporary and permanent locations.  
Credits: 3  
Prerequisites: AAI 282 or AAE 282.

AAI 473 - Interior Design III  
Studio problems in interior design related to commercial space planning.  
Credits: 6  
Prerequisites: AAI 374.

AAI 474 - Interior Design IV  
Studio problems in interior design related to large scale facilities.  
Credits: 6  
Prerequisites: AAI 473.

AAI 480 - Furniture Design  
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.

Credits: 3
Prerequisites: Minimum junior standing, and consent of instructor.

AAI 491 - Professional Practice
Issues of professional practice, including legal requirements, ethics, management structures, malpractice claims, value engineering, contracts, and the professional job market.

Credits: 3
Prerequisites: Senior standing.

AAI 493 - Independent Study
Independent study of a selected interior design topic.

Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

AAI 495 - Special Topics in Interior Design
Experimental and other topics which may be of current interest in interior design.

Credits: 1-4
Prerequisites: Consent of instructor.
Notes: Topics and credits to be announced.
May be repeated to a maximum of eight credits.

AAL 101 - Design with Nature
Introduces concepts of natural systems and their influence on human activity and living environments. Reviews historical context and cultural adaptations and introduces basic management and use of natural systems. Reviews natural, biological, cultural and design management philosophies.

Credits: 3

AAL 270 - Design Communication
Development of fundamental design communication skills and knowledge integral to the complex process of design decision making. Experimental exploration of theories and applications of methodologies basic to the development of design concepts and two- and three-dimensional representation of design products.

Credits: 6
Prerequisites: Admittance to major, junior standing or above, minimum 3.00 GPA, and consent of School of Architecture Director.

Notes: Same as AAI 270.

AAL 356 - History of Landscape Architecture II
Physical record of human interaction with the land. Contemporary landscape planning and design.

Credits: 3

AAL 430 - Land Use Management
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.

Credits: 3
Prerequisites: Upper-division standing in architecture studies.
Notes: Same as ENV 430.

AAL 446 - Land Use Planning and Controls
Theory and methods of urban land use, planning, and controls, including the rational planning process, comprehensive, functional and neighborhood plans.

Credits: 3
Prerequisites: Admission to upper division.

AAL 455 - Landscape Interpretation
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.

Credits: 3
Notes: This course is crosslisted with AAL 655. Credit at the 600-level requires additional work.

**AAL 456 - Campus Planning and Design**
Survey of the history, principles, and spatial form of academic campuses.
Credits: 3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with AAL 656. Credit at the 600-level requires additional work.

**AAL 459 - Design and Development**
Survey of the economic and political influences upon the development of building projects and building types.
Credits: 3
Prerequisites: AAE 382.
Notes: Same as AAE 459 and AAI 459.

**AAL 465 - GIS Planning Methods**
Environmental analysis and planning methods utilizing Arc Info and ArcView program to develop data overlays.
Credits: 3
Notes: This course is crosslisted with AAL 665. Credit at the 600-level requires additional work.

**AAL 467 - History and Theory of Golf Course Development**
Provides a fundamental knowledge of the history and theory of golf course development.
Credits: 3
Prerequisites: LAND 100 or HMD 101 and upper-division standing.
Notes: This course is crosslisted with AAL 667. Credit at the 600-level requires additional work.

**AAL 468 - Golf Course Design**
Explores the intricacies of designing a golf course. Strategic design, as well as golf course construction techniques, including: course routing, putting green complex design, clubhouse planning, and environmental considerations covered.
Credits: 3
Prerequisites: AAL 467 and upper-division standing.

Notes: This course is crosslisted with AAL 668. Credit at the 600-level requires additional work.

**AAL 494 - Landscape Architecture Design VII**
First of two capstone studios which synthesize technical, theoretical, historical, and cultural classes in solving landscape design problems.
Credits: 6
Prerequisites: LAND 486.

**AAL 496 - Landscape Architecture Design VIII**
Final capstone studio which synthesizes technical theory, history and cultural classes in solving landscape design problems.
Credits: 6
Prerequisites: AAL 494.

**AAP 100 - Introduction to Urban Planning**
Survey of urban planning. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice.
Credits: 2

**AAP 366 - History of Cities I**
The city from its origins to the present day. Emphasis on European and American cities during the last five centuries.
Credits: 3
Prerequisites: AAD 202 or equivalent.

**AAP 367 - History of Cities II**
The city from its origins to the present day. Emphasis on European and American cities during the last five centuries.
Credits: 3
Prerequisites: AAD 202 or equivalent.

**AAP 377 - Site Planning and Environmental Analysis**
Lecture/seminar course. Focuses on urban planning site planning and environmental analysis as they relate to the design process. Readings, discussions, and field trips.
AAP 377L - Site Planning and Design I
Design applications of site planning, environmental analysis and landscape design techniques as they relate to a variety of topographical conditions and building types.
Credits: 4
Corequisites: AAP 377.
Prerequisites: Admission to major.
Notes: Studio and field trips.

AAP 378 - Urban Form and Design
Form and structure of cities as related to the design process.
Credits: 1
Corequisites: AAP 378L.
Prerequisites: AAP 377 and AAP 377L.

AAP 378L - Urban Planning and Design II
Design applications of urban form and structure, exploring suburban, urban, and mixed-use models.
Credits: 4
Corequisites: AAP 378.
Prerequisites: AAP 377 and AAP 377L.

AAP 477 - Regional Planning Issues
Relationships of land use, circulation, and environmental systems on regional scale.
Credits: 1
Corequisites: AAP 477L.
Prerequisites: AAP 378 and AAP 378L.

AAP 477L - Urban Planning and Design III
Regional applications of urban planning including land use, circulation, and environmental systems.
Credits: 4
Corequisites: AAP 477.
Prerequisites: AAP 378 and AAP 378L.

AAP 478 - Statistical and Policy Planning
Evaluation and use of statistical models on urban planning policy in the public arena. Political and social conditions examined.
Credits: 1
Corequisites: AAP 478L.
Prerequisites: AAP 477 and AAP 477L.

AAP 478L - Urban Planning and Design IV
Urban planning applications integrating statistical input and analysis with political/social policy.
Credits: 4
Corequisites: AAP 478.
Prerequisites: AAP 477 and AAP 477L.

AAP 493 - Independent Study
Independent study of a selected urban planning and design topic.
Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

AAP 495 - Special Topics in Urban Planning and Design
Experimental and other topics which may be of current interest in urban planning and design.
Credits: 1-4
Prerequisites: Consent of instructor.
Notes: Topics and credits to be announced.
May be repeated to a maximum of eight credits.

ABS 321 - Construction Technologies I
Basic materials, methods and detailing of landscape, building and interior construction.
Credits: 3
Corequisites: PHYS 151.
Prerequisites: MATH 127 or MATH 128.
Notes: Includes effects of zoning and code requirements.
ABS 322 - Construction Technologies II
Investigation of building materials, assemblies, and construction delivery systems and their impact upon architectural design.
Credits: 3
Prerequisites: ABS 321.

ABS 331 - Environmental Control Systems I
Climate, energy use, and comfort as determinants of architectural form in small-scale buildings.
Emphasis on architectural methods of lighting, heating, cooling, and ventilation for envelope-load dominated buildings.
Credits: 3
Prerequisites: PHYS 151 and AAE 280.

ABS 332 - Environmental Control Systems II
Design, comfort, and resource consumption implications of HVAC systems, plumbing systems, acoustics, and lighting with emphasis on sustainable methods.
Credits: 3
Prerequisites: ABS 331.
Notes: Same as ABS 332, AAI 332

ABS 341 - Structures for Architects I
Fundamental principles of structures: Types of framing systems and their patterning in architecture, loads and force flow, vector mechanics and linear equilibrium, moments and rotational equilibrium, funicular structural systems, properties and behavior of materials under axial tension stress. An emphasis is placed on graphic static analysis of triangulated assemblies.
Credits: 3
Prerequisites: MATH 127 or MATH 128, and PHYS 151.
Notes: Same as ABS 541

ABS 432 - Solar Energy Applications in Architecture
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.
Credits: 3
Prerequisites: MATH 127 or MATH 128, and PHYS 151

ABS 440 - Structures for Architects II
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.
Credits: 3
Prerequisites: ABS 341.

ABS 443 - Interior Lighting Design
Principles of interior lighting and daylighting. Electrical loading, evaluation of light sources for distribution, cost, and color.
Credits: 3
Prerequisites: MATH 127 or MATH 128, and PHYS 151.
Notes: This course is crosslisted with ABS 643.
Credit at the 600-level requires additional work.
Landscape Architecture Major (BLA)

Landscape Architecture Major - Bachelor of Science (BLA)
Please see the UNLV College of Fine Arts - Department of Landscape Architecture web page at architecture.unlv.edu/landscape.html for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/blarch.

Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.or
Program - American Society of Landscape Architects www.asla.org/index.aspx

Learning Objectives
1. Inquiry and Critical Thinking
   o Upon completion of the Bachelor of Landscape Architecture degree program, students will be able to integrate design ideas derived from a critical approach to the research and analysis of multiple historical, technical, theoretical, social, political, economic, cultural and environmental contexts. An emphasis will be placed on the value of engaged scholarship and critical inquiry as means for determining appropriate design, management, and planning strategies in landscape architecture.

2. Design Process and Implementation
   o Upon completion of the Bachelor of Landscape Architecture degree program, students will be able to apply the design process as it relates to the professional practice of landscape architecture.

3. Communication and Representation
   o Upon completion of the Bachelor of Landscape Architecture degree program, students will demonstrate the ability to apply a wide range of communication methods to articulate landscape architecture design proposal.

   o Upon completion of the Bachelor of Landscape Architecture degree program, students will demonstrate the ability to apply a wide range of appropriate design tools, material systems, and technical applications.

5. Collaboration
   o Upon completion of the Bachelor of Landscape Architecture degree program, students will be able to demonstrate the ability to work within larger collaborative systems.

6. Leadership, Ethics, and Practice
   o Graduates of the UNLV Landscape Architecture and Planning program will be able to demonstrate an understanding of the need to manage, advocate, and act legally, ethically and critically for the good of the client, society, and the environment.

University Graduation Requirements
- Please see Graduation Policies for complete information.

Landscape Architecture Degree Requirements - Total: 123 Credits
The profession of landscape architecture embodies both the art and science of design, planning, and management of the land and the natural and man-made elements upon it. The program embraces creative, cultural, philosophical, and scientific knowledge bases as part of the educational requirements for a Bachelor of Landscape Architecture professional degree. The professional curriculum prepares students for areas of practice in landscape architecture and planning including site design, urban design, master planning, community planning, regional planning, and natural resource conservation.

General Education Requirements - Subtotal: 37-40 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: 3
- MATH 126 - Precalculus I

Distribution Requirements - Credits: 19

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts:**
  - Automatically satisfied by Major requirement
- **Social Sciences:** 9 credits
  - One course each from three different fields

- **Life and Physical Sciences and Analytical Thinking:** 10 credits
  - ENV 101 - Introduction to Environmental Science
  - GEOL 101 - Exploring Planet Earth or
  - GEOG 103 - Physical Geography of Earth’s Environment and
  - GEOG 104 - Physical Geography Laboratory
  - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: [http://facultysenate.unlv.edu/students](http://facultysenate.unlv.edu/students)

Major Requirements - Bachelor in Landscape Architecture - Subtotal: 84 Credits

**Major Requirements - Lower Division Credits: 24**
- LAND 180 - Design Foundation I
- LAND 240 - Introduction to Horticulture
- LAND 255 - History of Landscape Architecture
- LAND 267 - Introductory to Digital Media
- LAND 280 - Design Foundation II
- LAND 282 - Landscape Architecture Design II

**Major Requirements - Upper Division Credits: 60**
- LAND 330 - Design with Climate
- LAND 340 - Plants for Arid Environments
- LAND 342 - Planting and Irrigation Design
- LAND 343 - Site Grading for Landscape Architecture
- LAND 367 - Advanced Digital Media
- LAND 384 - Landscape Architecture Design I
- LAND 386 - Landscape Architecture Design IV
LAND 442 - Materials and Methods for Landscape Architecture
LAND 443 - Stormwater Management
LAND 455 - Theory in Landscape Architecture
LAND 467 - Geographic Information Systems for Landscape Architecture
LAND 484 - Landscape Architecture Design III
LAND 486 - Landscape Architecture Design IV
LAND 491 - Professional Practice
LAND 495 - Special Topics in Landscape Architecture
AAD 400 - Clinical Internship

Total Credits: 122

Landscape Studies Minor

The landscape minor offers students an opportunity to acquire an understanding of the use, management, history and interpretation of human interaction with the land. The minor will be especially important to students majoring in Environmental Studies, Geography, Water Resources Management, Real Estate and Business, but is not limited to these groups.

Courses Include - Total Credits: 19

- ENV 101 - Introduction to Environmental Science
- GEOL 101 - Exploring Planet Earth or GEOG 103 - Physical Geography of Earth's Environment and
- GEOG 104 - Physical Geography Laboratory
- LAND 255 - History of Landscape Architecture
- LAND 330 - Design with Climate
- LAND 455 - Theory in Landscape Architecture
- LAND 467 - Geographic Information Systems for Landscape Architecture

Landscape Architecture

LAND 100 - Introduction to Landscape Architecture
Survey of landscape architecture. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice.
Credits: 3
Notes: Same as AAE 100 and AAI 100. Satisfies Fine Arts Requirement.

LAND 240 - Introduction to Horticulture
Introductory examination of the science of horticulture as it applies to landscape architecture.
Credits: 3

LAND 242 - Irrigation (Construction II)
Introduces basic design of irrigation, construction and maintenance of irrigation. Sizing of components calculated and available products introduced.
Credits: 3
Prerequisites: Landscape major and MATH 126 and MATH 127 or MATH 128.

LAND 255 - History of Landscape Architecture
The history of designed landscapes from ancient times to today. Environmental, social and cultural factors which influence human made landscapes.
Credits: 3
Prerequisites: AAD 202 or equivalent.

LAND 258 - Xeric Plant Materials
Identification, distribution, growth, characteristics, adaptation, and usage of xeric plants. Emphasizes bedding plants, shrubs and trees.
Credits: 3
Prerequisites: LAND 340.
LAND 267 - Introductory to Digital Media
Introduction to two and three-dimensional digital design processes.
Credits: 3
Notes: Same as AAD 267.

LAND 280 - Design Foundation II
Students continue their inquiry into fundamentals of design principles. Emphasis will be placed on the interconnection between concepts and applications using various programmatic, topological, and technological themes.
Credits: 6
Prerequisites: LAND 180 or AAD 180 or AAI 180
Notes: Same as

LAND 282 - Landscape Architecture Design II
Elements, principles and theories of landscape design with emphasis on site planning.
Credits: 6
Prerequisites: LAND 280, AAI 280
Notes: Same as AAI 282

LAND 306 - Charrette
A collaborative experience where students work intensively during a short period of time with a local community to solve their problems by generating and presenting multiple design solutions.
Credits: 1-3
Prerequisites: LAND 280 and LAND 282.
May be repeated to a maximum of six credits.

LAND 330 - Design with Climate
Explanation of the effects of climate on thermal comfort. Comprehensive coverage of basic climatic design principles. Emphasizes integrating available solar and renewable energies in design.
Credits: 3
Prerequisites: LAND 282

LAND 340 - Plants for Arid Environments
An introduction to the identification, distribution, growth, characteristics, adaptation, and usage of plant materials appropriate for arid environments.
Credits: 3
Corequisites: LAND 330, LAND 384 and LAND 367
Prerequisites: LAND 240
Notes: Field trips.

LAND 342 - Planting and Irrigation Design
Examines the elements, principles and theories of planting and irrigation design in landscape architecture. An emphasis will be placed on regionally appropriate techniques and strategies.
Credits: 3
Corequisites: LAND 386, LAND 343 and LAND 367
Prerequisites: LAND 340

LAND 343 - Site Grading for Landscape Architecture
An introduction to basic site surveying techniques and site grading principles. Emphasis will be placed on contour manipulation as an interface between natural and man-made topographical conditions.
Credits: 3
Corequisites: LAND 386 and LAND 342 and LAND 442
Prerequisites: MATH 126, LAND 180

LAND 367 - Advanced Digital Media
Examination of advanced geometric modeling and introduction to basic parametric thinking, development of robust drawing typologies, computer generated renderings, and board compositions.
Credits: 3
Corequisites: LAND 384 and LAND 330 and LAND 340
Prerequisites: LAND 267 or AAD 267
Notes: Same as AAD 367
LAND 384 - Landscape Architecture Design I
Examines the fundamental principles and theories of site analysis, site programming, and site design in landscape architecture.
Credits: 6
Corequisites: LAND 330, LAND 340, LAND 367
Prerequisites: LAND 282 or AAD 282 or AAI 282 and admission to upper division of major.

LAND 386 - Landscape Architecture Design IV
Landscape architectural design applications of large-scale site analysis, land use planning, and ecosystem management issued.
Credits: 6
Prerequisites: LAND 384.

LAND 442 - Materials and Methods for Landscape Architecture
Examines the basic materials and methods used in landscape architecture site construction with an emphasis on sustainable materials and construction practices.
Credits: 3
Corequisites: LAND 343 and LAND 342 and LAND 386
Prerequisites: MATH 126, LAND 282

LAND 443 - Stormwater Management
Lecture course addressing the design and calculations of stormwater management systems, best management practices, surface and subsurface drainage systems, basic hydrology, horizontal and vertical layout, specifications of planting plans, demolition and tree preservation plans, specifications, and erosion and sediment control design and practices.
Credits: 3
Corequisites: LAND 484, LAND 467 and LAND 495
Prerequisites: LAND 343.

LAND 455 - Theory in Landscape Architecture
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.
Credits: 3
Prerequisites: LAND 255

LAND 467 - Geographic Information Systems for Landscape Architecture
Explores the fundamental uses of Geographic Information Systems in landscape architecture.
Credits: 3
Prerequisites: ENV 101 or GEOG 103 or GEOL 101

LAND 484 - Landscape Architecture Design III
Application of the elements, principles and theories of performance-based sustainable design in landscape architecture.
Credits: 6
Corequisites: LAND 443, LAND 467 and LAND 495.
Prerequisites: LAND 386.

LAND 486 - Landscape Architecture Design IV
Studio course focused on the successful completion of a capstone design project. An emphasis will be placed on the integration of design theory, principles, and applications at a level that demonstrates a synthesized understanding of research and design methodologies in landscape architecture.
Credits: 6
Corequisites: LAND 455 and LAND 495
Prerequisites: LAND 484

LAND 491 - Professional Practice
Issues of professional practice, including legal requirements, ethics, management structures, malpractice claims, value engineering, contracts, and the professional job market.
Credits: 3
Prerequisites: Senior standing.
LAND 493 - Independent Study
Independent study of a selected landscape architecture topic.
Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

LAND 495 - Special Topics in Landscape Architecture
Experimental and other topics which may be of current interest in landscape architecture.
Credits: 1-4
Prerequisites: Consent of instructor.
Notes: Topics and credits to be announced.
May be repeated to a maximum of eight credits.

LAND 499 - Sustainable Design for the 21st Century City
An integrative approach to human and natural systems in urban areas. Ecological principles, sustainable design, and human-ecosystem interaction will be examined at a variety of scales. Sustainable design concepts will be linked to design and planning principles.
Credits: 3
Prerequisites: Senior standing.
Department of Art

Purpose and Focus
The Department of Art offers its students an education in the visual arts as an integral part of a comprehensive educational experience. Our degree programs offer intense, professional education in the aesthetics and theories of the visual arts. Students will be trained in the skills and intellectual awareness that are the basis for a future of creative and professional achievement in the visual arts.

Accreditation
Institution - Northwest Commission on Colleges and Universities
Program Accreditation - National Association of Schools of Art and Design

Undergraduate Majors
Art History — Bachelor of Arts
Art — Bachelor of Arts with an area of concentration
Art — Bachelor of Fine Arts with an area of concentration
Graphic Design & Media - Bachelor of Science

Areas of Studio Art Concentrations
Painting/Drawing/Printmaking
Offers the student training in the principles, methods, and materials of painting, drawing and printmaking within the context of subject matter.

Photography
Offers the student a comparative study of the skills and theories in contemporary art photography, black and white film and digital color.

Sculpture
Offers the student the techniques and concepts needed for the development of three-dimensional visual objects and situations.

Admission to the Studio Art & Art History BA Degree Programs:
Minimum University GPA: 2.30, and maintain a minimum 2.70 in art courses.

Admission to the Studio Art BFA Degree Program:

Admission Policies
Minimum University GPA: 2.30 AND attain and maintain a 3.00 GPA in all departmental courses throughout the program.

All declared art majors must satisfactorily complete the following core program of introductory-level courses before declaring an intent to pursue a B.F.A. degree in an area of concentration within the program: ART 101, ART 107, ART 108, ART 156, ART 260, ART 261, ART 266.

After completion of 59 to 74 credits, a portfolio review by the full department faculty is required for acceptance into the B.F.A. program. Accepted students will then select a committee of three full-time Art faculty members to guide and evaluate their progress through the program.

Students who do not meet the minimum GPA may be admitted on a probationary status at the discretion of the Art faculty.

Admission to the Graphic Design & Media Major
Minimum GPA: 2.70

Admission Policies
Admission to the Graphic Design & Media program is based upon a panel review of:

1. Successful completion of all required courses in lower-division art department studies or the equivalent: ART 101, ART 107, ART 108, ART 156, ART 260, and ART 261. ART 266 must be completed at the earliest opportunity but may be taken after formal admission to the program.
Students applying to the program must have achieved a minimum 2.7 GPA.

2. Completed BS in Graphic Design & Media Program Application
3. A portfolio of selected works
4. Designs and process book presenting applicant's solution to the faculty review committee's Call for Creative Response, a unique design brief set annually.

The application deadline is March 15 of each year or as announced for enrollment in program courses the following fall semester. Incomplete applications will not be accepted. Admitted students must successfully pass annual portfolio juries and maintain a minimum 2.7 GPA to continue in the program.

Department Policies

Academic Policies

Studio courses may not be audited. Advancement to upper-division courses is dependent on acceptable performance, as determined by the instructor, in lower-division courses.

Courses must be taken in sequential numerical order in each discipline, starting with lower-division, intermediate, and then advanced level-courses.

Transfer Policies BA in Studio Art and Art History, BFA in Studio Art

Students wishing to transfer credits toward a B.A. or B.F.A. degree in art must schedule a meeting with the CFA Advising to determine which courses are transferable.

Transfer Policies in BS Graphic Design & Media

Transfer students applying for transfer credit in upper-division courses in the program from other institutions must submit the following to be considered for admission based upon faculty review:

1. Portfolio of design and media work.
2. Completed BS in Graphic Design & Media Program Application.
3. Designs and process book presenting applicant's solution to the portfolio review committee's Call for Creative Response, a unique design brief set annually.
4. Official transcripts from other institutions previously attended. While the university accepts credits transferred from other accredited institutions, transfer credits are not applied to the BS in Graphic Design & Media program until course descriptions and coursework portfolios are reviewed and accepted by program faculty. Transfer course work must be equivalent in both content and level of offering.

Advising

All new students will initially meet with an advisor in the College of Fine Arts' Advising Center and will subsequently work with an academic advisor from the center during their freshmen and sophomore years. At the beginning of their junior year, students should request to meet with an Art faculty member who will act as their advisor and assist them with their academic plans through graduation.

Art Major (BA)

Art Major- Bachelor of Arts (BA)


Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.
Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program Accreditation - National Association of Schools of Art and Design nasad.arts-accredit.org/

Learning Objectives
1. Demonstrate functional levels of drawing skills with varied media.
2. Recognize and be able to interpret major works of art pertaining to the art history courses taken.
3. Demonstrate working knowledge of the elements and principles of students’ chosen area of concentration
4. Articulate and critically respond to both familiar and unfamiliar works of art through critical dialogue.
5. Understand the function of presentation and/or the exhibition process of personal works in public gallery or other cultural venue.

University Graduation Requirements
- Please see Graduation Policies for complete information

Art Degree Requirements - Total 120 Credits
(See note 1 below)

General Education Requirements - Subtotal: 37-40 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3
Constitutions - Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society

or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirements - Credits: 19

Please see Distribution Requirements for more information.
- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements
- Social Science: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Art Core Requirements - Credits: 24

Art Core Requirements required for all concentrations
- ART 101 - Drawing I
- ART 107 - Design Fundamentals I
- ART 108 - Design Fundamentals II-3D
- ART 156 - Design Fundamentals III
- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III
- ART 291 - Intro to Visual Arts Seminar

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Major Degree Requirements - BA in Art - Painting/Drawing/Printmaking Concentration - Subtotal 40 Credits

**Additional Art Core Requirements - Total Credits - 3**
- ART 477* - Art Since 1945

**Studio Art Requirement - Credits: 12**
- ART 102 - Drawing II
- ART 201 - Life Drawing I
- ART 221 - Beginning Printmaking: Intaglio or
- ART 222 - Beginning Printmaking: Lithography
- ART 231 - Painting I

**Studio courses upper division electives - Credits: 9**
- ART 332 - Intermediate Painting
- ART 401 - Advanced Drawing
- ART 421 - Advanced Printmaking: Intaglio
- ART 422 - Advanced Printmaking: Lithography
- ART 432 - Advanced Painting

**Art History Requirements - Credits: 6**
Select two of the following:
- ART 434 - Topics in Contemporary Art
- ART 461 - The History of Ancient Art
- ART 462 - History of Medieval Art
- ART 463 - History of Early Renaissance Art
- ART 464 - High Renaissance and Mannerist Art
- ART 465 - History of Northern Renaissance Art
- ART 466* - History of Renaissance and Baroque Architecture
- ART 467 - History of Southern Baroque Art
- ART 468 - History of Northern Baroque Art
- ART 469 - History of Eighteenth-Century Art I
- ART 470 - History of Eighteenth-Century Art II
- ART 472* - History of Art in the Nineteenth Century
- ART 473 - Twentieth Century Art
- ART 474 - History of American Art
- ART 475 - History of Photography
- ART 479 - Artistic Traditions of the Southwest
- ART 480* - Art of China
- ART 481* - Art of Japan
- ART 493 - Individual Study in Art History (see note 2 below)

- ART 495 - Special Topics in Art History (see note 3 below)

**BFA Project/Exhibition - Credits: 6**
- ART 496 - Bachelor of Fine Arts Seminar
- ART 497 - Bachelor of Fine Arts Project

**Art upper division electives - Credits: 4 Selected in consultation with BFA Committee Chair**

**Electives - Credits: 16-29**

Major Degree Requirements - BA in Art - Photography Concentration - Subtotal: 36 Credits

**Studio Art Requirements - Credits: 30**
- ART 135 - Photography I
- ART 216 - Sculpture I
- ART 337 - Intermediate Black and White Photography
- ART 342 - Digital Photography
- ART 347 - Beginning Commercial Photography
- ART 436 - Alternative Photographic Processes
- ART 442 - Intermedia
- ART 447 - Advanced Studio Practice: Photography (Must be repeated for a minimum of six credits)
- ART 490 - Studio Internship

**Art History Requirements - Credits: 6**
- ART 475 - History of Photography
- ART 477* - Art Since 1945 (see note 3 below)

**Electives - Credits: 23-26**

Major Degree Requirements - BA in Art - Sculpture Concentration - Subtotal: 30 Credits

**Studio Art Requirements - Credits: 24**
- ART 102 - Drawing II
- ART 135 - Photography I
- ART 201 - Life Drawing I
- ART 211 - Beginning Ceramics I or
- ART 212 - Beginning Ceramics II
• ART 216 - Sculpture I
• ART 317 - Intermediate Sculpture
• ART 409 - Advanced Gallery Practices I
• ART 416 - Advanced Sculpture

Art History Requirements - Credits: 6
Select two of the following:
• ART 461 - The History of Ancient Art
• ART 462 - History of Medieval Art
• ART 463 - History of Early Renaissance Art
• ART 464 - High Renaissance and Mannerist Art
• ART 465 - History of Northern Renaissance Art
• ART 466* - History of Renaissance and Baroque Architecture
• ART 467 - History of Southern Baroque Art
• ART 468 - History of Northern Baroque Art
• ART 469 - History of Eighteenth-Century Art I
• ART 470 - History of Eighteenth-Century Art II
• ART 472* - History of Art in the Nineteenth Century
• ART 473 - Twentieth Century Art
• ART 474 - History of American Art
• ART 475 - History of Photography
• ART 477* - Art Since 1945
• ART 479 - Artistic Traditions of the Southwest
• ART 480* - Art of China
• ART 481* - Art of Japan
• ART 493 - Individual Study in Art History (see note 2 below)
• ART 495 - Special Topics in Art History (see note 3 below)

Electives - Credits: 26-29

Total Credits: 120

Notes

1. Of the 120 credits required, 42 of these credits must be in upper-division course work (300-400), including courses taken in the major.
2. ART 493 may be taken only after completing at least one 400-level art history course with a B or better.
3. ART 309 may not be taken for Art History credit by Studio Majors.

Art Major (BFA) — Painting/Drawing, Printmaking/Photography, or Sculpture Concentration

Art Major- Bachelor of Fine Arts (BFA)

Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program Accreditation - National Association of Schools of Art and Design nasad.arts-accredit.org/

Learning Objectives
1. Create a body of work as a portfolio including artist statement and resume to submit to graduate schools and to similar creative venues.
2. Continue developing the creative research activities, gain knowledge in current and historical issues in art practice and theory.
3. Develop proficiency in multi-level range of processes within one's area of discipline.
4. To be able to articulate ideas/objects within context of art in practice a theory.
5. Exhibit their creative work nationally/internationally and to continue and maintain clarity about their research.
6. To sustain themselves personally, economically and professionally.

University Graduation Requirements
• Please see Graduation Policies for complete information.
Degree Requirements - BFA in Art Total: 132 Credits

The requirements for each of the B.F.A. concentrations are identical to the requirements for the corresponding BA concentration.

(See note 1-3 below)

With the addition of the following requirements:

**Art History - Credits: 3**
- ART 477* - Art Since 1945
  (see note 4 below)

**Bachelor of Arts Seminar - Credits: 3**
- ART 496 - Bachelor of Fine Arts Seminar

**Bachelor of Arts Project - Credits: 3**
- ART 497 - Bachelor of Fine Arts Project

**Upper division electives selected in consultation with student's BFA Committee Chair - Credits 3**

Total Credits: 132

Notes

1. Candidates for this program will be reviewed, by the Art Faculty at the end of the spring semester. The application deadline is the 2nd Friday in April. Applicants should have completed 110 credits towards their B.A. in an Art Concentration prior to the following fall semester.
2. Applicants must have a 3.0 GPA in Art in order to apply.
3. Upon being accepted for the B.F.A. every student must choose and be accepted by three tenured or tenure track faculty in the Art Department. These three faculty compose the B.F.A. Committee and will mentor every student, meeting with them frequently for purposes of critique, both individually and as a committee.

4. ART 493 may be taken only after completing at least one 400-level art history course with a B or better.

**Art**

**ART 101 - Drawing I**
Basic course designed to offer a disciplined foundation in drawing concepts based on visual observation.
Credits: 3
Notes: Six hours studio. Satisfies Fine Arts Requirement.

**ART 102 - Drawing II**
Counterpart of ART 101. Designed to further develop formal elements and principles of drawing. Emphasis on color.
Credits: 3
Prerequisites: ART 101.

**ART 107 - Design Fundamentals I**
Art fundamentals designed to develop a visual language. Emphasis on the application of the elements and principles of pictorial structure: point, line, shape, plane, space, and color.
Credits: 3
Notes: Satisfies Fine Arts Requirement.

**ART 108 - Design Fundamentals II-3D**
Study of basic design elements, including point, line, shape, and form, with media experience in both two and three dimensions. 6.0 hours activity.
Credits: 3
Notes: Special fee required.

**ART 135 - Photography I**
Development of a fine arts approach to black and white photography at an introductory level, exploring the aesthetic potential of photography as an expressive art form. Basic technical skills include using a manual 35mm camera, developing film and printing black and white photographs.
Credits: 3
Notes: Satisfies Fine Arts Requirement.
ART 156 - Design Fundamentals III
Introductory concepts, vocabulary and practical application of computer software used in visual art and design. Studio projects exploring 2D, 3D, interactive, and time-based media.
Credits: 3

ART 160 - Art Appreciation
Introduction to art as a visual experience. Media, formal properties, and the correlation of art with the ideas of society for which it was made. May not be taken by art majors.
Credits: 3
Notes: Satisfies Fine Arts Requirement.

ART 201 - Life Drawing I
Structural analysis of the figure, as it relates to form and composition.
Credits: 3
Prerequisites: ART 101 and ART 102.

ART 211 - Beginning Ceramics I
Techniques in hand building, mold casting, slip casting, glaze calculation, and history as it applies to assigned problems, with emphasis on sculptural development of form.
Credits: 3
Prerequisites: ART 108.
Notes: Satisfies Fine Arts Requirement.

ART 212 - Beginning Ceramics II
Techniques in wheel throwing, clay body calculation, kiln design, and history as it applies to assigned problems, with emphasis on development of sculptural and utilitarian forms.
Credits: 3
Prerequisites: ART 108.

ART 216 - Sculpture I
Introduction to techniques and concepts in contemporary sculpture.
Credits: 3
Notes: Satisfies Fine Arts Requirement.

ART 221 - Beginning Printmaking: Intaglio
Introduction to etching, dry point, aquatint, and other techniques related to metal plate printmaking. Emphasis on the creative use of materials and techniques.
Credits: 3
Prerequisites: ART 101 and ART 107, and either ART 102 or ART 135.

ART 222 - Beginning Printmaking: Lithography
Examination of materials and techniques for both stone and plate lithography for the artist. Explores black and white printing as well as color and photo generated images.
Credits: 3
Prerequisites: ART 101 and ART 107, and either ART 102 or ART 135.

ART 223 - Beginning Printmaking: Screen Printing
Introduction to the basic techniques of silk-screen printing with emphasis on its creative potential.
Credits: 3
Prerequisites: ART 101 and ART 107, and either ART 102 or ART 135.

ART 231 - Painting I
Introduction to painting in various media, with emphasis on color, form, and composition.
Credits: 3
Prerequisites: ART 101 and ART 107.

ART 243 - Digital Imaging I
Introduction to the concepts and practices of computer imaging and use of related media with emphasis on creative applications of digital technology.
Credits: 3
Prerequisites: ART 101 and ART 107.

ART 260 - Survey of Art History I
General survey of western art history covering the period from the earliest cave art to the Renaissance.
Credits: 3
Notes: Satisfies Fine Arts Requirement.
ART 261 - Survey of Art History II
General survey of western art history from the Renaissance to modern times.
Credits: 3
Notes: Satisfies International and Fine Arts Requirement.

ART 266 - Survey of Art History III
Non-Western Art History. Introduction to the arts of Asia, Islam, Africa, Pre-Columbian America, and Oceania.
Credits: 3

ART 291 - Intro to Visual Arts Seminar
A seminar in visual arts with a historical and theoretical examination in the subject of art. This experiential course is structured for students to research and interact individually and collectively with seminal figures in contemporary art and in related disciplines. Offered Fall Semester only.
Credits: 3
Maybe repeated to a maximum of 12 credits.

ART 309 - Gallery Practices
Practices and ethics of operating an art gallery.
Credits: 3
Prerequisites: ART 260 and ART 261.

ART 317 - Intermediate Sculpture
Traditional as well as non-traditional materials, techniques, and approaches involved in the creation of three-dimensional works of art.
Credits: 3
Prerequisites: ART 216.

ART 332 - Intermediate Painting
Study of the various uses of pictorial space in Western art. Key periods explored through studio practice.
Credits: 3
Prerequisites: ART 231.

ART 333 - Photography for the Graphic Designer
This course is designed to expose the graphic design student to the technical and creative applications of commercial photography. Covered in this course: digital cameras, studio lighting, portraiture, architectural and product photography.
Credits: 3
Prerequisites: ART 156 and GRC 250

ART 337 - Intermediate Black and White Photography
Investigation of the zone system, large format cameras, and studio lighting. Emphasis placed on the creative possibilities of black and white photography.
Credits: 3
Prerequisites: ART 135.
Notes: Special fee required.

ART 339 - Beginning Color Photography
Introduction to color photography with emphasis on exposure, color printing, studio lighting methods, and fabricated imagery.
Credits: 3
Prerequisites: ART 342.

ART 342 - Digital Photography
Investigates using the computer as a tool to expand a student’s visual expression of themes begun in traditional photography. Emphasis on conceptual development of ideas.
Credits: 3
Prerequisites: ART 156.

ART 344 - Intermediate Digital Imaging
Intermediate level course in digital imaging with emphasis on the conceptual and creative potential of the technology within a fine arts context.
Credits: 3
Prerequisites: ART 243.

ART 347 - Beginning Commercial Photography
Topics include commercial light techniques, portraiture, editorial, event and product shooting.
ART 401 - Advanced Drawing
Develops independent self-expression in a broad range of media and concepts.
Credits: 3
Prerequisites: ART 201.
May be repeated for a maximum of 18 credits.

ART 402 - Life Drawing Workshop
Offered to encourage students in all areas of art to continue drawing on a more advanced level.
Credits: 1
Prerequisites: ART 101.
May be repeated for a maximum of 12 credits.

ART 404 - 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.
Credits: 3
Prerequisites: Three credits in upper-division studio, three credits in Art History.
Notes: This course is crosslisted with ART 604. Credit at the 600-level requires additional work.
May be repeated for a maximum of 12 credits.

ART 409 - Advanced Gallery Practices I
Advanced course in the business and operational aspects of an art gallery.
Credits: 3
Prerequisites: ART 309.

ART 410 - Advanced Gallery Practices II
Advanced course in catalog writing and critical writing as they relate to art galleries and museums.
Credits: 3
Prerequisites: ART 309 and ART 409.

ART 411 - Advanced Ceramics I
Concentration of ceramic techniques emphasizing sculptural aspects. Involves the individual pursuit of the sculptural possibilities with the ceramic media.
Credits: 3
Prerequisites: ART 211.
May be repeated for a maximum of 18 credits.

ART 412 - Advanced Ceramics II
Concentration on ceramic techniques emphasizing pottery wheel aspects. Involves the individual pursuit of the functional and nonfunctional possibilities with the ceramic media.
Credits: 3
Prerequisites: ART 212.
Notes: Special fee required.
May be repeated for a maximum of 18 credits.

ART 416 - Advanced Sculpture
Advanced work in a selected area of interest. Emphasis on contemporary art concepts.
Credits: 3
Prerequisites: ART 317.
Notes: Special fee required.
May be repeated for a maximum of 18 credits.

ART 419 - Foundry Sculpture
Techniques and concepts of traditional and contemporary cast metal sculpture.
Credits: 3
Prerequisites: ART 216.
Notes: Special fee required.
May be repeated for a maximum of 18 credits.

ART 421 - Advanced Printmaking: Intaglio
Emphasis on individual development of the intaglio print. Innovative techniques presented.
Credits: 3
Prerequisites: ART 221.
Notes: Special fee required.
May be repeated to a maximum of 18 credits.
ART 422 - Advanced Printmaking: Lithography
Examination of materials and advanced techniques for both stone and plate lithography for the artist. Technical content varies from semester to semester and from student to student.
Credits: 3
Prerequisites: ART 222.
Notes: Special fee required.

ART 423 - Advanced Printmaking: Screen Printing
Emphasis on individual development of the silk-screen print. Innovative techniques presented.
Credits: 3
Prerequisites: ART 223.
Notes: This course is crosslisted with ART 655C.
Credit at the 600-level requires additional work.
Special fee required.
May be repeated to a maximum of 18 credits.

ART 425 - Advanced Studio Practice
Covers the discipline of studio practice as a visual language within the contemporary art-world. Variations of decision-making systems will be used as devices for creating objects and setting conditions for event based artwork. Students will make objects resulting from research exploration and critique-generated discussion.
Credits: 3
Prerequisites: ART 101, ART 102, and ART 108.
May be repeated to a maximum of eighteen credits.

ART 427 - Water-based Media
Comprehensive problems in painting with transparent and opaque watercolors.
Credits: 3
Prerequisites: ART 101 and ART 107.
Notes: Special fee required.
May be repeated for a maximum of 18 credits.

ART 428 - Entertainment and Fine Arts Law I
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.
Credits: 3

ART 429 - Entertainment and Fine Arts Law II
Unique legal issues in the fields of live stage performance, theater, 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.
Credits: 3
Prerequisites: ART 428 or DAN 421A or DAN 421B or THTR 421A or THTR 421B.

ART 432 - Advanced Painting
Emphasizes individual development in painting and encourages experiments with new techniques.
Credits: 3
Prerequisites: ART 332.
Notes: This course is crosslisted with ART 620.
Credit at the 600-level requires additional work.
Special fee required.
May be repeated for a maximum of 18 credits.

ART 434 - Topics in Contemporary Art
Provides an in-depth study of major developments in art since 1960, approaching these developments in their social historical, art historical, and art critical contexts.
Credits: 3
Prerequisites: ART 260, ART 261, ART 266, ENG 102, PHIL 102
May be repeated to a maximum of nine credits.

ART 436 - Alternative Photographic Processes
Critical investigative approach to creative photography using alternative non-silver and silver processes. Emphasis on following methods: cyanotype, Van Dyke Brown, Diazo, Kwik print, photoetching, photo silk screen, gum print, Polaroid transfer, salt print, laser copy transfer, and mural printing.
Credits: 3
Prerequisites: ART 135 or ART 342.
Notes: Special fee required.
May be repeated to a maximum of 18 credits.

**ART 437 - Advanced Black and White Photography**
Advanced investigation of varied black and white photographic techniques, bookmaking, and mural printing. Emphasis on individual development.
Credits: 3
Prerequisites: ART 337.
Notes: Special fee required.
May be repeated to a maximum of 18 credits.

**ART 439 - Color Photography II**
Practical, analytical, and critical approach to color photography with emphasis on exposure, printing, studio lighting methods, and investigation of imagery relating to historical and contemporary trends.
Credits: 3
Prerequisites: ART 339.
Notes: Special fee required.
May be repeated to a maximum of 18 credits.

**ART 442 - Intermedia**
Structured to investigate multimedia concepts — installations, two- and three-dimensional constructions, photography, print process, video, and film.
Credits: 3
Prerequisites: ART 135 or ART 342
Notes: Special fee required.
May be repeated for a maximum of 18 credits.

**ART 443 - Senior Portfolio**
Computer graphics in design and execution of digital interactive and multimedia forms. Among other studio-based projects, students create an interactive digital version of their portfolio.
Applicable for art students in all areas of emphasis.
Credits: 3
Prerequisites: GRC 250 and GRC 360.

**ART 447 - Advanced Studio Practice: Photography**
Students will engage in personal exploration and experimentation in search of individual form and content within the broad realms of photography, choosing to primarily work in: Black and White, Digital, Alternative Processes or Intermedia. At the end of the semester the student's work will be presented in a group exhibition.
Credits: 3
Prerequisites: ART 337 and ART 342.
May be repeated for a maximum of 12 credits.

**ART 461 - The History of Ancient Art**
History of art in the Near Eastern civilizations, Greece, and Rome.
Credits: 3
Prerequisites: ART 260 and ART 261.

**ART 462 - History of Medieval Art**
History of art from the fall of the Roman Empire to the Trecento (fourteenth century).
Credits: 3
Prerequisites: ART 260 and ART 261.
Notes: This course is crosslisted with ART 662.
Credit at the 600-level requires additional work.

**ART 463 - History of Early Renaissance Art**
History of art from the late Gothic through the fifteenth century in Italy.
Credits: 3
Prerequisites: ART 260 and ART 261.
Notes: This course is crosslisted with ART 663.
Credit at the 600-level requires additional work.

**ART 464 - High Renaissance and Mannerist Art**
History of art of the sixteenth century in Italy and Spain.
Credits: 3
Prerequisites: ART 260 and ART 261.
Notes: This course is crosslisted with ART 664.
Credit at the 600-level requires additional work.
ART 465 - History of Northern Renaissance Art
History of Renaissance art in the countries north of the Alps.
Credits: 3
Prerequisites: ART 260 and ART 261.
Notes: This course is crosslisted with ART 665. Credit at the 600-level requires additional work.

ART 466* - History of Renaissance and Baroque Architecture
Architecture of Europe from 1400 to 1800.
Credits: 3
Prerequisites: ART 260 and ART 261.
Notes: Same as AAE 458. This course is crosslisted with ART 666. Credit at the 600-level requires additional work.

ART 467 - History of Southern Baroque Art
History of art of the seventeenth century in Italy and Spain.
Credits: 3
Prerequisites: ART 260, ART 261, ART 266, ENG102, PHIL 102

ART 468 - History of Northern Baroque Art
History of art during the seventeenth century in Flanders, Holland, and France.
Credits: 3
Prerequisites: ART 260 and ART 261.

ART 469 - History of Eighteenth-Century Art I
Eighteenth-century art in France.
Credits: 3
Prerequisites: ART 260 and ART 261.

ART 470 - History of Eighteenth-Century Art II
Eighteenth-century art in Italy, England, Germany and Spain.
Credits: 3
Prerequisites: ART 260 and ART 261.

ART 472* - History of Art in the Nineteenth Century
History of European art in the nineteenth century.
Credits: 3

ART 473 - Twentieth Century Art
History of European art in the twentieth century.
Credits: 3
Prerequisites: ART 260 and ART 261.
Notes: Satisfies International Requirement. This course is crosslisted with ART 673. Credit at the 600-level requires additional work.

ART 474 - History of American Art
History of art in the United States from the seventeenth century until World War II.
Credits: 3
Prerequisites: ART 260 and ART 261.
Notes: This course is crosslisted with ART 674. Credit at the 600-level requires additional work.

ART 475 - History of Photography
Development of photography as an aesthetic medium from its invention to the present time in America, France, England, etc.
Credits: 3
Prerequisites: ART 260, ART 261, ART 266, ENG 102, PHIL 102

ART 476 - Topics in Performance and Media Art
This course provides a kind of "alternative" history of contemporary art, focusing on performance, media, participatory, and action-based art from the early twentieth century to the present rather than traditional art forms such as painting, drawing, and sculpture.
Credits: 3
Corequisites: ART 477* or ART 473 may be taken simultaneously to count as prerequisite.
Prerequisites: ART 260, ART 261; ART 477* or ART 473.
Notes: Same as ART 676. This course is crosslisted with ART 676. Credit at the 600-level requires additional work.
ART 477* - 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.
Credits: 3
Prerequisites: ART 260, ART 261, ART 266, ENG 102, PHIL 102
Notes: This course is crosslisted with ART 677*. Credit at the 600-level requires additional work.

ART 479 - Artistic Traditions of the Southwest
Surveys Native American, Hispanic, and Anglo artistic traditions of Southwest from Anasazi to contemporary. Major media considered from pottery, basket making, weaving to contemporary painting, sculpture, photography, and architecture.
Credits: 3
Prerequisites: ART 260 and ART 261.

ART 480* - Art of China
Surveys the history of the art and architecture of China.
Credits: 3
Prerequisites: ART 260, ART 261, ART 266, ENG 102, PHIL 102
Notes: This course is crosslisted with ART 680*. Credit at the 600-level requires additional work.

ART 481* - 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.
Credits: 3
Prerequisites: ART 260, ART 261, ART 266, ENG 102, PHIL 102
Notes: Satisfies International Requirement. This course is crosslisted with ART 681*. Credit at the 600-level requires additional work.

ART 485 - Contemporary Artists in Context
This art history course corresponds to the weekly Visiting Artist lecture series hosted by the Art Department. In a weekly seminar, students will examine the work of visiting artists in greater depth through reading reviews, articles, and essays, and will consider larger art world movements or trends exemplified by the work of visiting artists.
Credits: 3
Corequisites: ART 477* or ART 473 may be taken simultaneously to count as prerequisite.
Prerequisites: ART 260, ART 261; ART 477* or ART 473.

ART 489 - Art History Internship
Supervised on-site experience involving aspects of art history and gallery practices. May not be used by studio majors to fulfill art history requirements.
Credits: 3-6
Prerequisites: ART 309.

ART 490 - Studio Internship
Supervised on-site experience involving aspects of studio arts. May not be used by art history majors to fulfill studio requirements.
Credits: 3
Prerequisites: Six credits upper-division studio work and consent of instructor from the discipline requested.
May be repeated up to a maximum of six credits.

ART 492 - Individual Studies
Individual creative work in any studio discipline. Before registering, the student must secure consent in writing from the instructor directing the study.
Credits: 1-3
Prerequisites: Four upper-division studio classes in the discipline requested.
May be repeated to a maximum of 18 credits.

ART 493 - Individual Study in Art History
Individual scholarly studies in any field of art history. Before registering, the student must secure consent in writing from the instructor directing the study.
Credits: 1-3
Prerequisites: ART 260 and ART 261, 266; ENG 102; PHIL 102, HIST 100. Two upper-division art
history courses with a grade of B or better.
Notes: ART 493 may be taken only after completing
at least one 400-level art history course with a B or
better.
May be repeated to a maximum of 12 credits.

**ART 495 - Special Topics in Art History**
Credits: 3
Prerequisites: ART 260 and ART 261, 266; ENG
102; PHIL 102, HIST 100. 6 credits of upper-division
art history.
May be repeated to a maximum of 12 credits.

**ART 496 - Bachelor of Fine Arts Seminar**
Practical preparation to enter into the professional
art world. Topics covered include building a body a
work, documentation of artworks, presentation of
public slide talk, marketing and exhibiting artist
statements, resumes, grants, and job possibilities.
Credits: 3
Prerequisites: Consent of instructor.

**ART 497 - Bachelor of Fine Arts Project**
Preparation of a project or body of work to be
exhibited in the B.F.A. Senior Exhibition during the
Spring Semester.
Credits: 3
Prerequisites: ART 496.

**ART 498 - Seminar in the Visual Arts**
Conducted by one or several faculty members.
Subject to be decided by students and faculty.
Credits: 1-3
Prerequisites: Consent of instructor(s).
May be repeated for a maximum of 18 credits.

**Art History Minor**

Courses Include - Total Credits: 21

- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III
and 12 credits in upper-division (400-level)
art history courses.
Graphic Design and Media (BS)

Graphic Design and Media Major - Bachelor of Science (BS)

Please see the UNLV College of Fine Arts web page at http://www.unlv.edu/finearts for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-graphic-design-media.

Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Objectives
Upon completion of the BS in Graphic Design & Media, students will be able to:

1. Demonstrate fluency in technology and state of the art software applications used in design professions.
2. Employ a workflow strategy appropriate to the technical and creative needs of a given context.
3. Analyze and critically respond to examples of design verbally and in written form.
4. Apply research to identify and focus design problems, in the context of a client and audience relationship.
5. Apply multiple ideations and analytical strategies throughout the design process.
6. Formulate original and appropriate design responses to observed conditions or cultural contexts.
7. Assemble a competitive portfolio of quality works of design and media appropriate to the student’s focus and career goals. The portfolio works will demonstrate a range of creative strategies and original solutions effective within the identified design, communication, and social contexts.

Program Application Requirements
Each spring, a panel of Graphic Design faculty will review the work of qualifying students for acceptance into the Graphic Design & Media program. Students who are selected to the program may continue taking the remaining Graphic Design & Media core courses. Students who are not recommended for the program may either change majors or reapply the following year. Students may apply for the program up to two times.

APPLICATION PROCESS

Required Courses
In order to qualify for the Graphic Design Program Portfolio Review, students must have a cumulative GPA of at least 2.3 in all Art- and Design-related coursework. The students must have completed and have a cumulative GPA of at least 3.0 in the following prerequisites courses in order to apply to the program with at least a 2.3 GPA in each:

ART 101 Drawing I
ART 107 Design Fundamentals I
ART 108 Design Fundamentals II-3D
ART 156 Design Fundamentals III
GRC 210 Typography I
GRC 250 Design & Media Studio I

Students are encouraged to meet with a College of Fine Arts advisor—with their transcript or degree worksheet—the semesters prior to application in order to discuss course progression. Students can retake prerequisite courses in which they do not receive a 2.3 GPA in order to meet the course requirements must retake courses and meet the GPA standards before applying to the Graphic Design Program. Students also should be enrolled
in, or already completed, GRC 320 Design Methods & Research at the time of application.

Transfer students must meet with a College of Fine Arts advisor—with their transcript—the semester prior to application in order to determine course equivalencies. Transfer students must also meet with the Graphic Design Program Coordinator, with their current portfolio of work, to assess the design projects developed thus far. Students who do not meet the course equivalencies and do not possess a portfolio of comparable work will be advised to take prescribed courses in order to meet the program requirements.

Portfolio and Application

After confirming that the course requirements have been met, students may apply for the Graphic Design & Media program by submitting a portfolio that includes the following:

- A portfolio of projects completed within Graphic Design & Media core courses
- Supportive work from other art or design-related courses or projects created outside of the university.

Specifications for the portfolio application and the deadline of application will first be announced during the Fall semester each year. Formal calls for applications are announced early in the Spring semester. Applications are due in the middle of the Spring semester.

University Graduation Requirements

Please see Graduation Policies for complete information

NOTE: The Graphic Design & Media curriculum is designed for students to graduate in a spring semester. Please see your academic advisor for more information regarding your progression and intended graduation date.

General Education Requirements - Subtotal: 38-46 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Select one of the following courses or combination of courses:
One of the following:
- HIST 100 - Historical Issues and Contemporary Society
- ECON 200 - Capitalism, Constitutions and American Ideals
- PSC 101 - Introduction to American Politics OR
- HIST 101 - United States: Colonial Period to 1877
  AND one of the following:
- HIST 102 - United States Since 1877
- HIST 217 - Nevada History
- PSC 100 - Nevada Constitution

Mathematics - Credits: 3

- MATH 120 - Fundamentals of College Mathematics
  or higher, excluding MATH 122 and MATH 123

Distribution Requirement - Credits: 19

Please see Distribution Requirement for more information.

- Humanities and Fine Arts:
  o Automatically satisfied by Major requirements
- Social Science: 9 credits (see note 1)
  o One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  o Life and Physical Science -7 credits
Two courses; at least one course must have a lab
- Analytical Thinking - 3 credits
  Select one of the following courses:
  - COM 104 Critical Thinking in Public Argument
  - COM 217 Argumentation and Debate
  - PHIL 102 Critical Thinking and Reasoning

Multicultural and International - Credits: 0-6 credits
Multicultural, one 3 credit course required
International, one 3 credit course required (see note 2)

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: facultysenate.unlv.edu/students

Major Requirements - BS in Graphic Design and Media - Subtotal: 69

Communications - Credits: 3
  - COM 101 - Oral Communication

Foundation Requirements - Credits: 21
  - ART 101 - Drawing I
  - ART 107 - Design Fundamentals I
  - ART 108 - Design Fundamentals II-3D
  - ART 156 - Design Fundamentals III
  - ART 260 - Survey of Art History I
  - ART 261 - Survey of Art History II
  - ART 266 - Survey of Art History III

Design Program Requirements - Credits: 24
The core Graphic Design & Media courses are meant to be completed in sequence. Students will take GRC 210 and GRC 250 simultaneously, ideally in the fall semester. These two courses are required prior to applying to the program and progressing to the upper division Graphic Design & Media courses. Application to the program takes place during the spring semester.
  - GRC 210 - Typography I
  - GRC 250 - Design & Media Studio I
  - GRC 320 - Design Methods & Research
  - GRC 365 - Web and User Interface Design
  - GRC 380 - Design & Media Studio II
  - GRC 410 - Typography III
  - GRC 420 - Design & Media Studio III
  - GRC 470 - Advanced Graphic Design

Select 3 of the following:
  - GRC 310 - Typography II
  - GRC 315 - Illustration I
  - GRC 316 - Digital Illustration I
  - GRC 356 - Animation I
  - GRC 364 - Publication Design
  - GRC 374 - Digital Modeling
  - GRC 385 - Package Design I
  - GRC 455 - Motion Graphics

Art or Design Electives - Credits: 3
At least 3 credits from an upper-division ART or GRC course.

Capstone Requirement - Credits: 3
The Capstone course is the final core requirement for the Graphic Design & Media program. It is only offered in the spring semester. Students in the Capstone course are expected to graduate at the end of the semester.
  - GRC 480 - Capstone

Art History Requirements - Credits: 6
Select 2 of the following:
  - ART 434 - Topics in Contemporary Art
  - ART 462 - History of Medieval Art
Electives - Credits: 5-13

Credits to be selected in consultation with advisor.

Total Credits: 120

Of the 120 credits required, 39 of these must be in upper-division course work (300-400).

Notes:

1. Social Science: One course each from three different fields for a total of nine credits. Courses used to satisfy the Constitutions requirement may not be used to meet Social Sciences distribution requirements. AAS and ANTH constitute one field.
2. Students must take ART 261 to satisfy the international requirement.
3. ART 493 (1 credit) may be taken only after completing at least one 400-level art history course with a B or better.

Graphic Design

GRC 210 - Typography I
Historical context of letterforms introducing the theories and technologies of typographic communication, design, and execution; copy acquisition, proofreading, and fundamentals of typographical layout and design.
Credits: 3
Corequisites: GRC 250
Prerequisites: ART 101, ART 107, ART 108, and ART 156 completed with a grade of C- or better.
Notes: Duplicate credits cannot be earned for GRC 210 and GRC 360.

GRC 250 - Design & Media Studio I
Principles and language of graphic design and media. Lectures, studio work, and critiques demonstrating visual communication theories and methods within a given social and cultural context.
Credits: 3
Prerequisites: ART 101, ART 107, ART 108, ART 156
Notes: Formerly Art 256 Graphic Design I.

GRC 310 - Typography II
Advanced course for learning typographic theories and principles as well as the ability to experiment with type. Develop creativity, research, and preliminary work capabilities. Understand the
importance of typography, typographic design, layout and imaging technologies for a variety of media. Utilize Adobe Creative Suite.

GRC 315 - Illustration I
An introduction to the practice and field of illustration. Emphasis on the importance of messaging and symbolism as they relate to the intended audiences. A range of media will be explored: ink and watercolor progressing to collage/found media and digital applications including scanning and digital editing of illustrations.

GRC 316 - Digital Illustration I
Initiates the transition from hand-drawn work to digitally rendered projects through the use of vector-based software and digital drawing tablets. Design skills, such as typography and layout, are also integrated into the course. The professional practices of the illustration field are also emphasized.

GRC 320 - Design Methods & Research
Lecture, readings, and studio projects exploring strategies to promote effective design thinking and analysis. Students will produce context appropriate design solutions and increase their technical fluency in industry-standard software applications.

GRC 350 - Design Ideation & Process
Course investigates a range of approaches and strategies to enrich creative, conceptual and analytical aspects of the design process. Studio projects include digital process drawing and concept rendering.

GRC 356 - Animation I
An introduction to animation, including planning, drafting, thinking with kinetics, and the basics of cinema and frames. The course focuses on 2D animation techniques and skills.

GRC 360 - Typography & Letterforms
The historical context of letterforms and visual languages in type as symbol and image. Exploring typographic form expressing visual concepts and narratives.

GRC 364 - Publication Design
Course covers topics central to the design of long format publications, including layout & design, typography, production technologies and standards, and instruction in industry-standard software applications.

Credits: 3
Prerequisites: ART 101, ART 107, ART 108 and ART 156. All prerequisites course completed with a grade of C- or better.

GRC 366 - Design Ideation & Process
Course investigates a range of approaches and strategies to enrich creative, conceptual and analytical aspects of the design process. Studio projects include digital process drawing and concept rendering.

Credits: 3
Prerequisites: GRC 210 and GRC 280
Must be admitted into the Graphic Design program

GRC 360 - Typography & Letterforms
The historical context of letterforms and visual languages in type as symbol and image. Exploring typographic form expressing visual concepts and narratives.

Credits: 3
Prerequisites: ART 101, ART 107, ART 108 and ART 156. All prerequisites course completed with a grade of C- or better.

GRC 364 - Publication Design
Course covers topics central to the design of long format publications, including layout & design, typography, production technologies and standards, and instruction in industry-standard software applications.

Credits: 3
Prerequisites: GRC 250, GRC 360, must be admitted students in B.S. Graphic Design program.

GRC 366 - Design Ideation & Process
Course investigates a range of approaches and strategies to enrich creative, conceptual and analytical aspects of the design process. Studio projects include digital process drawing and concept rendering.

Credits: 3
Prerequisites: GRC 250, GRC 360, must be admitted students in B.S. Graphic Design program.

GRC 364 - Publication Design
Course covers topics central to the design of long format publications, including layout & design, typography, production technologies and standards, and instruction in industry-standard software applications.

Credits: 3
Prerequisites: GRC 250, GRC 360, must be admitted students in B.S. Graphic Design program.
GRC 365 - Web and User Interface Design
Instruction in the methods and techniques of website design from concept to completion. Course covers site construction in HTML with cascading style sheets (css). Course emphasizes organizational design considerations such as information hierarchy, legibility, and accessibility, while maintaining a professional standard in graphic design treatment.
Credits: 3
Prerequisites: GRC 320, GRC 350.

GRC 374 - Digital Modeling
An introduction to 3D modeling with Autodesk Maya and Mudbox. This course will cover important concepts used in 3D modeling. Lectures and class activities will develop foundational modeling practices and foster a good digital workflow. Course work will focus on key concepts that can be applied to design and interdisciplinary practice.
Credits: 3
Prerequisites: Graphic Design major and GRC 356 completed with a grade of C- or better.

GRC 375 - Modeling & Animation
Projects in 3D modeling, animation, and motion graphics. Explores progression of digital experiences through virtual environments.
Credits: 3
Prerequisites: GRC 320, GRC 350.

GRC 380 - Design & Media Studio II
Intensive problem solving utilizing diverse visual languages. Develop critical thinking with practical, theoretical and conceptual design problems.
Credits: 3
Prerequisites: ART 260, ART 261, GRC 320, must be admitted students in B.S. Graphic Design program.

GRC 385 - Package Design I
Introduction to the theories and practices of visual communication through design and studio practices including issues of sustainability, aesthetics, impact, marketing disciplines, and production problems for real-world application.
Credits: 3
Prerequisites: Graphic Design Major, GRC 380 completed with a grade of C- or better.

GRC 410 - Typography III
Critically analyze and synthesize typography in the context of systems: advertising, signage, and branding. Typeface creation will be explored using traditional, non-traditional, digital and analog approaches. Visual form and typographic fundamentals will be expanded.
Credits: 3
Prerequisites: Minimum grade of C- in following: GRC 210 or GRC 360, and GRC 380. Admitted into the Graphic Design Program.

GRC 420 - Design & Media Studio III
Advanced visual communication problems within the context of professional graphic design and media. Projects reflect the context of specific audiences, businesses or organizations, and production requirements.
Credits: 3
Prerequisites: GRC 380, must be admitted students in B.S. Graphic Design program.

GRC 455 - Motion Graphics
Explores the expressive potential of motion graphics as a contemporary communication and design medium. Projects and instruction utilizing time-based editing software and emphasizing kinetic composition methods with various visual media and graphic elements.
Credits: 3
Prerequisites: GRC 380, must be admitted students in B.S. Graphic Design program.
GRC 470 - Advanced Graphic Design
Advanced visual communication problems in professional graphic design and media topics; preparation for professional BFA portfolio exhibit and review.
Credits: 3
Prerequisites: GRC 420, GRC 410, must be admitted students in B.S. Graphic Design program.

GRC 480 - Capstone
As a culminating class, it is designed to build upon current design skills and research methods by addressing real-world scenario design, as well as preparation for graduation. Self-driven pieces will be designed, as well as business card, resume, web presence (personal/portfolio website), and a finished printed portfolio.
Credits: 3
Corequisites: GRC 420 and GRC 410
Prerequisites: GRC 350; GDMBS major; AND Department consent

GRC 490 - Graphic Design/Media Internship
Supervised professional experience in the graphic design, media, or illustration field.
Credits: 1-3
Prerequisites: GRC 380, must be admitted students in B.S. Graphic Design program.
Notes: S/F grading. Certain internships may require additional prior coursework per faculty advisor recommendation.

GRC 492 - Individual Studies
Student initiated in-depth design or media related work to enhance and focus the portfolio in target areas. Written project proposal, references, relevant student design samples, and proposed production schedule to be submitted in writing prior to enrollment. Enrollment requires written consent by instructor facilitating the study.
Credits: 1-4
Prerequisites: GRC 380, must be admitted students in B.S. Graphic Design program.
Notes: May be repeated to a maximum of twelve credits.
Department of Dance

Purpose and Focus
The Department of Dance baccalaureate degrees allow students to pursue the study of dance in a liberal arts curriculum, which focuses on artistic, creative, technical, and theoretical training. Through the Department of Dance curriculum and concert season, dance majors are prepared for professional careers in dance performance, teaching, and dance production, as well as post-baccalaureate study. The department produces a yearly concert season that provides cultural enrichment to the university and community.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Majors
Dance — Bachelor of Fine Arts
  Performance/Choreography
  Dance for the Professional Dancer

Dance — Bachelor of Arts
  Production/Management

Areas of Concentration
Bachelor of Fine Arts in Performance/Choreography
Focuses on an in-depth curriculum of professional dance technique, choreography and performance in preparation for a professional career in dance.

Bachelor of Fine Arts in Dance for the Professional Dancer

Bachelor of Arts in Production/Management
Focuses on in-depth curriculum of professional dance production, management skills, and dance technique in preparation for a professional career in these related fields.

Minor
Dance
Dance Production & Management
Pilates

Certificate
Pilates Training

Admission to the Major

Admission Policies
The Department of Dance honors the university entrance requirements for admission into the department. Students not meeting these requirements may be admitted under contract on a probationary basis.

Placement for Technique Classes
A placement audition to determine technical level is required of all dance majors upon entrance into the Department of Dance. A placement audition is scheduled on the last day of instruction of the previous semester, and the Friday prior to the first day of classes. To confirm the dates, times, and locations of upcoming placement auditions, please visit www.unlv.edu/dance. Students will not be able to register for technique classes without completion of the placement audition.

Admission to an Area of Concentration
All students will follow the Bachelor of Arts degree requirements. Those students wishing to apply for candidacy in the Bachelor of Fine Arts in Performance and Choreography degree must audition before a panel of the dance faculty. These auditions are scheduled the last day of instruction of each semester, and the Friday prior to the first day of classes. To confirm the dates, times, and locations of upcoming placement auditions, please visit www.unlv.edu/dance.

Please note that it is expected that after the first year of curriculum, that students are actively enrolled in either the BFA or BA Production track. If a student does not pass the BFA audition after the first year, graduation may be delayed.
Candidates for the B.F.A. degree will undergo rigorous scrutiny in compliance with professional expectations in academic and creative accomplishments. Students are required to complete all required courses in their area of concentration.

Transfer Policies
The Department of Dance will accept a maximum of 50 percent of required courses prefixed DAN toward graduation. Transfer credits in dance technique will be limited to no more than 12 in the Bachelor of Fine Arts degree and 6 in the Bachelor of Arts. Credits in Dance Theory courses do not transfer into the degrees without a placement assessment. A change of major within UNLV does not constitute transfer status.

Department Policies

Academic Probation
Students must maintain a cumulative GPA of 2.00 for continued admission in the College of Fine Arts. Students with a GPA below the college requirement or below a 2.50 in departmental classes will be restricted from participating in the dance production season the following semester (not including summer session or dance production course work). Students failing to make satisfactory academic progress including failing to meet the requirements of departmental or area of concentration policy will be placed on a semester of academic probation with specified contractual conditions to be met by the end of the ensuing regular term (summer excluded). A student who fails to meet these contractual agreements will be placed on suspension from their area of concentration and/or from the Department of Dance. Students placed on academic suspension will not be allowed to enroll in course work in their area of concentration or in the department for one semester (summer excluded). Students on academic probation may not perform or participate in dance productions. At the end of the semester of suspension, the student may petition the

department and/or the area of concentration in advance of registration for reinstatement.

Repeatable Technique Courses
Technique courses in the Department of Dance are repeatable for a maximum of four credits each in the 100 and 200 levels and a maximum of 6 credits each in the 300 and 400 levels. Repeatable technique courses are a common practice in the technical training of the dancer. Technique courses require a complex integration of a variety of skills: physical, mental, aesthetic, and technical. Students may demonstrate satisfactory levels of achievement in isolated skill areas but fail to synthesize them in performance. Consequently, the student who has not synthesized the material presented, but who has demonstrated isolated competencies, does not deserve to fail the course. In many instances, it is required to repeat a given level before moving up to a higher level. Grades in technique courses are determined by a variety of factors: participation, progress, dedication, quality of work in relationship to student peers, attention to specific academic and performance requirements, and mastery of the material. A passing grade does not necessarily indicate promotion to a higher technique level.

Production
Dance majors are required to participate (and be available for participation) in dance productions sponsored by the Department of Dance. All dance majors may need to complete four hours of load-in time for all main stage concerts. Failure to do so will result in an inability to perform the following semester. A record of the student's involvement will be submitted each semester to the student's advisor and be placed in the department file. Students unable to participate in a specific production or concert may submit a written request for a waiver to the chair of the Department of Dance. Students failing to participate in dance productions may be separated from the area of concentration and will be restricted from performing the following semester. All dance
majors participating in the concert are required to strike the production. Failure to do so will result in the student being suspended from participating in productions the following semester.

Seminar in Dance (DAN 199)
This course is mandatory for the first two semesters of matriculation as a major in the Department of Dance. The one remaining semester may be completed at the discretion of the student. Three semesters of DAN 199 are also required for transfer students. Dance majors will not be recommended for graduation if this requirement is not satisfied.

Multicultural–International Requirements
The Department of Dance offers dance courses that fulfill these requirements.

End of Semester Assessments
At the end of each semester, all dance majors will be scheduled to perform before a jury of the faculty. Juries are scheduled the last week of instruction. For a Production major, a portfolio review will also be scheduled. During that same week, all dance majors are required to meet with the faculty for a short conference at which time students are evaluated with regard to progress in technique classes, development in their area of concentration, academic standing, production involvement, and are given feedback with regard to future development and placement level.

Progression
Undergraduate majors must complete all degree requirements within eight years of matriculation.

Scholarships
The Department of Dance offers the following dance scholarships: Kenneth and Mary Alice DeVos, Bea Ratliffe, Ronnie Greenblatt Memorial Dance Scholarship, and Grant-in-Aid. All new scholarship applicants must audition before a panel of dance faculty. This audition is scheduled the Friday of the last week of instruction. All current students will automatically be considered for scholarships, and need not attend the audition. Scholarship guidelines are available on the Department of Dance website at www.unlv.edu/dance. Many additional scholarships for scholastic achievement and financial need are available through the UNLV Financial Aid office.

Advising
Dance majors are required to meet with a faculty advisor at the end of each semester for approval of their schedule of classes for the next semester. Failure to seek academic advising may postpone date of graduation.

Additional Policies
Additional Department of Dance policies are articulated in the UNLV Department of Dance Student Handbook. All dance majors and minors are required to obtain, read, and follow departmental polices. Failure to do so may result in the inability to participate in the Department of Dance production season. Students are also responsible for checking the departmental callboard outside of the dance office and their RebelMail for updates and announcements.

Dance Major (BFA) — Performance/Choreography, or Dance for the Professional Dancer

Dance Major - Bachelor of Fine Arts (BFA)
Please see the UNLV College of Fine Arts - Department of Dance web page at www.unlv.edu/dance for information about department programs, faculty, and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bfa-dance-performance-choreography.
Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.
Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Objectives
1. BFA dance majors will be able to apply competent dance technique standards within professional practice and performance.
   - Objectives – After completing the BFA dance program the students will be able to:
     - Perform a variety of choreography in a dance concert performance.
     - Attend a dance audition prepared with performance resume, professional headshot, and solo dance material.
     - Have a knowledge of correct dance terminology and its proper usage.
     - Have a knowledge of body mechanics through correctly applied kinetic principles.
2. BFA dance majors will be able to organize and apply principles of research and critical thinking through choreographic and pedagogic environments.
   - Objectives - After completing the BFA dance program will be able to:
     - Conceptualize choreographic form and be able to work with a group as a member or soloist.
     - Generate movement kinetically, respond to the movement of others, observe and analyze movement with regards to quality, shape, form, and structure.
     - Create dance based on structural limitations, music, props, scenic and/or costume production elements.
     - Recognize compositional forms from theme and variation to motif, abstraction, rondos, cannons, AB, ABA, and natural forms.
     - Create and produce a five-minute original work with all elements of dance included for performance. Analyze and understand this work.
     - Organize design and execute a lesson plan for a 50-90-minute dance class demonstrating various teaching methods or techniques.
     - Develop a curriculum of dance study complete with focus group, workshop or department objectives, course outline, schedule of classes, list of faculty and performance culmination.
3. BFA dance majors will be able to understand the application and use of music, voice, and video within the dancers' performance and choreographic needs.
   - Objectives – After completing the BFA dance program the students will be able to:
     - Recognize and distinguish between simple and compound meters as well as constant and changing meters.
Analyze rhythm, meter, tempo, musical phrasing, and to communicate with musicians and other dancers about musical components.

Demonstrate rhythms and meters on the body also known as eurhythmics to other dancers and musicians.

Create different types of accompaniments for their choreographies.

Recognize the various musical periods from primitive, medieval, Renaissance, Baroque, Classical, Romantic, and Contemporary musical examples.

Understand the musical framework of rhythm and dynamics as it pertains to the phrasing of movement to music.

Integrate the voice and body in various technical exercises.

Explore the breath and resonating spaces of the voice, expressive actions and the expressive cycle within acting scene work, and dance performances.

5. BFA dance majors will understand dance from the practical, production, and historical point of view.
   
   Objectives – After completing the BFA dance program students will be able to:
   
   - Evaluate and judge a positive production experience from a negative one and how to solve these problems for future concerts.
   - Communicate and specify their needs to the various production designers such as lighting designers, sound designers, costume designers, and set designers.
   - Know how to locate the necessary elements to produce a dance concert.
   - Apply the knowledge of how to run a dance concert from the audition process all the way through to the final performance.
   - Identify and analyze the joints of the body. Students will be able to label the bones and major muscles of the body and communicate an understanding of the anatomical structures of the human kinetic instrument.

4. BFA dance majors will have knowledge of dance arts in a liberal arts framework/environment.
   
   Objectives – After completing the BFA dance program the students will be able to:
   
   - Compare and contrast aesthetics in dance and related arts through period, style, and theme.

   Communicate knowledge of art, music, literature, and theater in a general use or application to culture and society.
and sociological developments in dance from pre-historic times to the late 1800's along with the events, personalities, choreographic works, and current trends in dance specific to America since 1900.

- Apply and assimilate knowledge of the trends in dance and music that occur after the avant-garde period (1945-2005) into the practical application of dance.
- Understand the impact of and purposes of dances from around the world and throughout time and cultures in order to gain an appreciation and working knowledge of these cultural dances; along with their music and costume use and significance.

University Graduation Requirements

- Please see Graduation Policies for complete information.

Dance Major BFA - Performance/Choreography Track, or Dance for the Professional Dancer Track

General Education Requirements - Subtotal: 38 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

- HIST 100 - Historical Issues and Contemporary Society or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirements - Credit: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements
- Social Science: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BFA in Performance/Choreography - Subtotal: 82 Credits

Dance Core Requirements - Credits: 44

- DAN 108 - Pilates I
- DAN 199 - Seminar in Dance (3 semesters)
- DAN 208 - Pilates II
- DAN 209 - Music Theory for Dancers II
- DAN 288 - Choreography II: Elements of Dance Composition
- DAN 301 - World Dance
- DAN 309 - Music Theory for Dancers III
- DAN 351 - Dance Kinesiology
- DAN 365 - Dance History I: Dance History to 1900
- DAN 367 - Dance Production I
- DAN 369 - Aesthetics of Design for Dance
- DAN 384 - Bachelor of Fine Arts Project I
- DAN 388 - Choreography III: Principles of Composition
- DAN 465 - Dance History II: 1900 to Present
- DAN 479 - Methods of Teaching Dance
- DAN 484 - Bachelor of Fine Arts Project II
- DAN 488 - Choreography IV: Theory and Practical Application

8 credits from the following:
- DAN 132 - Jazz Dance I
- DAN 232 - Jazz Dance II
- DAN 332 - Jazz Dance III
- DAN 432 - Jazz Dance IV

8 credits from the following:
- DAN 135 - Ballet I
- DAN 235 - Ballet II
- DAN 335 - Ballet (Advanced)
- DAN 435 - Ballet IV

8 credits from the following:
- DAN 138 - Modern Dance I
- DAN 238 - Modern Dance II
- DAN 338 - Modern Dance III
- DAN 438 - Modern Dance IV

8 credits from the following:
- DAN 387 - Dance Ensemble I
- DAN 487 - Dance Ensemble II

Dance Electives - Credits: 6

Total Credits: 120

Major Requirements - BFA in Dance for the Professional Dancer - Subtotal: 61-82 Credits

Other administrative requirements:

Professional BFA Candidates must have substantial experience working as a professional dancer and must have evidence of a dance career for at least five years or the equivalent.

Professional BFA Candidates will design their own program of dance study to fit their needs and interests in accordance with their Dance Advisor from the Dance Department.

Professional BFA Candidates will not be required to take dance technique but they may be required to perform. They will not be required to take University Electives but may opt to take them to enhance their course of study in accordance with their advisors.

Professional BFA Candidates cannot take more than 21 University Electives unless agreed upon by the Dance Faculty. They may take between 0 up to 21 credits.

Dance Core Requirements - Credits: 61-82 designed from the following courses:

Dance Choreography
- DAN 288 - Choreography II: Elements of Dance Composition
- DAN 384 - Bachelor of Fine Arts Project I
- DAN 388 - Choreography III: Principles of Composition
- DAN 484 - Bachelor of Fine Arts Project II
- DAN 488 - Choreography IV: Theory and Practical Application

Dance History, Aesthetics, Methods
- DAN 166 - Survey of African American Dance
- DAN 301 - World Dance
- DAN 365 - Dance History I: Dance History to 1900
- DAN 369 - Aesthetics of Design for Dance
- DAN 465 - Dance History II: 1900 to Present
- DAN 479 - Methods of Teaching Dance

Dance Music
- DAN 209 - Music Theory for Dancers II
DAN 309 - Music Theory for Dancers III

Dance Science
- DAN 108 - Pilates I
- DAN 110 - Dance for Flexibility and Tone
- DAN 208 - Pilates II
- DAN 308 - Pilates III
- DAN 351 - Dance Kinesiology
- DAN 451 - Prevention and Care of Dance Injuries

Dance Production
- DAN 367 - Dance Production I
- DAN 371 - Lighting Design for Dance I
- DAN 372 - Costume Construction for Dance
- DAN 373 - Scenic Design for Dance I
- DAN 380 - Stage Management for Dance
- DAN 467* - Dance Production II
- DAN 471 - Lighting Design for Dance II
- DAN 472* - Costume Design for Dance
- DAN 473 - Scenic Design for Dance II
- DAN 480* - Business of Dance
- DAN 486 - Dance Design Project II

Each can be repeated up to 6 times.

- HipHop: DAN 160
- Jazz: DAN 132/DAN 232/DAN 332/DAN 432
- Ballet: DAN 135/DAN 235/DAN 335/DAN 435
- Modern Dance: DAN 138/DAN 238/DAN 338/DAN 438
- Tap: DAN 144/DAN 244/DAN 344/DAN 444
- Ensembles: DAN 387/DAN 487

Required 6 Credits:
DAN 499 Dance Seminar for the Professional (required to take for two semesters).

University Electives - Credits: 0-21

These courses may include courses from Theatre, Music, Art, Architecture, Health Sciences, Education, Business, Hospitality, as well as other courses from the University.

Dance Major —
Production/Management (BA)

Dance Major - Production/Management - Bachelor of Arts (BA)
Please see the UNLV College of Fine Arts - Department of Dance web page at http://www.unlv.edu/dance for information about department programs, faculty, and facilities.

Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-dance-production-management.

Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Objectives
1. BA dance production majors will be able to apply dance production and management standards in realized productions and understand the application and use of all physical production elements (lights, scenery, costumes, video, music, stage management...) for performance and choreographic needs.

   o Objectives – After completing the BA dance program the students will be able to:
      ▪ Effectively stage manage a production.
      ▪ Do basic technical set up for production.
      ▪ Have knowledge on how to travel and tour a dance production.

2. BA dance production majors will be able to organize and apply principles of research and critical thinking and aesthetics through design and choreographic environments.
Objectives – After completing the BA dance program the students will be able to:

- Have the ability to define period styles in design
- Present concepts and ideas in the framework of historical and current trends
- Map out and develop a cohesive production concept and "arch" for design choices.

BA dance production majors will have knowledge of the dance art in fine arts framework/environment. The students will understand the dance from both physical and historical aspects.

Objectives – After completing the BA dance program the students will be able to:

- Explain and discuss production through understanding of the basic principles of choreography.
- Know and be able to discuss ideas and concepts of dance and visual arts leaders.

BA dance production majors will have a thorough understanding of the partnership between choreographer and designer and be able to create a collaborative working environment.

Objectives – After completing the BA dance program students will be able to:

- Execute collaborations with actual choreographer to develop presented work.
- Share thoughts and ideas in a nurturing manor to the betterment of the work.

University Graduation Requirements

- Please see Graduation Policies for complete information.

Dance Major - Production/Management Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 38 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics
  (satisfies both constitutions)

Mathematics - Credits: 3

Distribution Requirements - Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements

- Social Science: 9 credits
  - One course each from three different fields

- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
• PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural (DAN 465)
International (DAN 301)

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to:
http://facultysenate.unlv.edu/students/multicultural

Major Requirements - BA in Dance - Subtotal: 82 Credits

Dance Core Requirements - Credits: 63
• DAN 199 - Seminar in Dance (3 semesters)
• DAN 209 - Music Theory for Dancers II
• DAN 271 - Electricity for Dance Production
• DAN 288 - Choreography II: Elements of Dance Composition
• DAN 301 - World Dance
• DAN 309 - Music Theory for Dancers III
• DAN 365 - Dance History I: Dance History to 1900
• DAN 367 - Dance Production I
• DAN 369 - Aesthetics of Design for Dance
• DAN 371 - Lighting Design for Dance I
• DAN 372 - Costume Construction for Dance
• DAN 373 - Scenic Design for Dance I
• DAN 380 - Stage Management for Dance
• DAN 381 - Stage Management for Dance II
• DAN 386 - Dance Design Project I
• DAN 388 - Choreography III: Principles of Composition
• DAN 465 - Dance History II: 1900 to Present
• DAN 470* - Video Design for Dance
• DAN 471 - Lighting Design for Dance II
• DAN 475 - Dance Production Practicum (DAN 475 must be taken for a total of 3 credits for degree requirements)
• DAN 480* - Business of Dance
• DAN 486 - Dance Design Project II

Technique Requirements-Credits 12 from the following:
4 credits from the following:
• DAN 132 - Jazz Dance I
• DAN 232 - Jazz Dance II
• DAN 332 - Jazz Dance III
• DAN 432 - Jazz Dance IV

4 credits from the following:
• DAN 135 - Ballet I
• DAN 235 - Ballet II
• DAN 335 - Ballet (Advanced)
• DAN 435 - Ballet IV

4 credits from the following:
• DAN 138 - Modern Dance I
• DAN 238 - Modern Dance II
• DAN 338 - Modern Dance III
• DAN 438 - Modern Dance IV

Two advised CFA design courses - Credits: 6

Technique Elective - Credit: 1

Total Credits: 120

Dance Minor

Courses Include - Total Credits: 21

REQUIREDCOURSE
• DAN 365 - Dance History I: Dance History to 1900
• DAN 465 - Dance History II: 1900 to Present

and 15 credits of electives.

Dance minors must have a total of at least 12 upper-division Dance Department credits. This should not include DAN 384/484. Two semesters of DAN 199 (Seminar in Dance) are recommended.
Dance Production/Management Minor

Total Credits: 21
Minimum 2.0 GPA
Minimum 2.50 cumulative GPA

Required

- DAN 367 - Dance Production I
- DAN 467* - Dance Production II

AND 15 credits from the following dance production/management electives:
- DAN 369 - Aesthetics of Design for Dance
- DAN 371 - Lighting Design for Dance I
- DAN 372 - Costume Construction for Dance
- DAN 373 - Scenic Design for Dance I
- DAN 380 - Stage Management for Dance
- DAN 470* - Video Design for Dance
- DAN 471 - Lighting Design for Dance II
- DAN 472* - Costume Design for Dance
- DAN 473 - Scenic Design for Dance II
- DAN 480* - Business of Dance
- DAN 490 - Independent Study

Two semesters of DAN 199 Seminar in Dance (0 cr) are recommended.

Credit by Exam (CBE) may be possible for some production/management classes which will be decided by a Dance Department Advisor.

Pilates Minor

Students enrolled within a degree program may elect to take the Minor in Pilates which is separate from Minor in Dance.

Minor Requirements - Total Credits: 22

- DAN 108 - Pilates I
- DAN 110 - Dance for Flexibility and Tone
- DAN 208 - Pilates II
- DAN 308 - Pilates III (repeat twice for a total of 4 credits)
- DAN 485 - Dance Internship

Pilates Training Certificate

The program grants Pilates trainer's certification allowing students employment opportunities in the global Pilates field as trainers, teachers, rehabilitation therapists, and practitioners.

In order to earn a certificate in Pilates instruction, students must complete 14 credits; the required courses are:

Certificate in Pilates Training

- DAN 108 - Pilates I
- DAN 110 - Dance for Flexibility and Tone
- DAN 208 - Pilates II
- DAN 308 - Pilates III
- DAN 351 - Dance Kinesiology
- DAN 451 - Prevention and Care of Dance Injuries
- KIN 101 - Athletic Training

Dance

DAN 100 - Introduction to Dance
No dance training necessary. Fundamentals of movement styles and philosophies of dance. Students observe and participate through demonstration, video, and discussion.
Credits: 3
Notes: Satisfies Fine Arts Requirement.

DAN 101 - Dance Appreciation
Non-technical course providing understanding and appreciation of the art of dance with special focus on the artists and styles. Intended for non-dance majors only.
DAN 103 - Sex, Dance, and Entertainment
Non-technical course providing understanding and appreciation of the sexual derivation and evolution of social, street, and fad dances from 1900 to the present, and the subcultures that created them. Intended for non-dance majors only.
Credits: 3
Prerequisites: Non-dance majors only.
Notes: Satisfies Fine Arts Requirement.

DAN 104 - Appreciation of Dance in Broadway and Film Musicals
Non-technical course providing an understanding and appreciation of "Show-Biz" dancing in Broadway musicals from the 1940s to the present. Shows like Oklahoma, West Side Story, A Chorus Line, and Dancin' viewed and discussed in relation to dance. Dance stars on film such as Ginger Rogers, Fred Astaire, Gene Kelly, and Mikhail Baryshnikov explored in respect to their contributions to choreography and performance.
Credits: 3
Prerequisites: Non-dance majors only.
Notes: Satisfies Fine Arts Requirement.

DAN 108 - Pilates I
Introduction to alignment, flexibility and strengthening technique with a certified Pilates® practitioner. Pilates® technique, a universal theory of training for movement, develops correct use of the students' body and prevents injury. Includes practical application with Pilates® that focuses on mat work, equipment, small and large ball
Credits: 1
May be repeated to a maximum of six credits.
Same as PEX 161

DAN 109 - Music Theory for Dancers I
Basic elements of music with special emphasis on rhythm.
Credits: 3
Prerequisites: Dance majors only.

DAN 110 - Dance for Flexibility and Tone
Open to all dance majors and non-majors.
Emphasis on dance alignment, flexibility, breathing, and tone.
Credits: 1
May be repeated to a maximum of three credits.

DAN 114 - Line Dancing
Active non-partner synchronized dance routines to various styles of music. Will practice basic footwork while learning movements and understanding how to keep time when executing choreography. Learn terminology and understand the cardiovascular benefits of dance.
Credits: 1
Same as PEX 108

DAN 121 - Jazz Dance I for Non-Majors
Jazz Dance technique for non-majors.
Credits: 1
Prerequisites: Non-majors only.
May be repeated to a maximum of 6 credits.

DAN 122 - Ballet for I Non-Majors
Ballet technique for non-majors.
Credits: 1
Prerequisites: Non-majors only
May be repeated to a maximum of 6 credits.

DAN 123 - Modern Dance I for Non-Majors
Modern Dance technique for non-majors.
Credits: 1
Prerequisites: Non-dance majors only
May be repeated to a maximum of 6 credits.
DAN 125 - Ballroom Dance (Beginning)
Ballroom Dancing provides an introduction in beginner or bronze level patterns, which include the Waltz, Fox Trot, Tango, Cha Cha, Rumba, East Coast Swing and Mambo. Also provides instruction in proper competitive technique of ballroom dance.
Credits: 1
May be repeated to a maximum of four credits.
Same as PEX 189

DAN 132 - Jazz Dance I
Beginning techniques of jazz dance.
Credits: 1
May be repeated to a maximum of four credits.

DAN 135 - Ballet I
Beginning techniques of ballet.
Credits: 1
May be repeated to a maximum of four credits.

DAN 137 - International Folk Dance
Credits: 1

DAN 138 - Modern Dance I
Beginning techniques of modern dance.
Credits: 1
May be repeated to a maximum of four credits.

DAN 144 - Tap Dance (Beginning)
Beginning techniques of tap dance.
Credits: 1
May be repeated to a maximum of four credits.

DAN 160 - Hip Hop I
Learn various styles of Hip Hop while incorporating dance movement and cardiovascular exercise. Will also learn the history of Hip Hop based movement, develop form and technique, learn choreographic combinations and appropriate conditioning exercises.
Credits: 1
Same as PEX 187

DAN 166 - Survey of African American Dance
Survey of the role of the African-American in the development of dance in America. Special focus placed on artists, their philosophies and contributions in the areas of ballet, jazz, modern and tap.
Credits: 3
Notes: Satisfies the Multicultural and Fine Arts Requirement. Same as AAS 166.
Same as AAS 166

DAN 188 - Choreography I: Improvisation for Composition
Practical application of the techniques of improvisation for its use in composition.
Credits: 3

DAN 199 - Seminar in Dance
Exploration of issues in dance. Required each semester for all dance majors.
Credits: 0

DAN 208 - Pilates II
Continued study of alignment, flexibility, and strengthening techniques. Covers the theory and application of Pilates technique on Pilates Equipment
Credits: 1
Prerequisites: DAN 108.
May be repeated to a maximum of six credits.

DAN 209 - Music Theory for Dancers II
Study of devices, structures, and analysis as applied to music and movement. Techniques of selection and production of accompaniment for dance.
Credits: 3
Prerequisites: Sophomore standing; dance majors and minors only.

DAN 216 - Hip Hop II
Intermediate level Hip Hop. Previous experience in Hip Hop is necessary. Builds upon technique and terminology previously acquired in Hip Hop I.
Particular emphasis on enhancing the physical awareness and expressiveness. Focuses on
intermediate level technique skills as well as explores a variety of styles in Hip Hop music and movement.
Credits: 1
Prerequisites: DAN 160.
May be repeated to a maximum of six credits.

DAN 224 - Pointe Work for Ballet
This class will accommodate all students interested in ballet pointe technique - basic applications of pointe work in ballet class, as well as classical ballet repertory variations.
Credits: 1
May be repeated to a maximum of 3 credits.

DAN 225 - Ballroom Dance (Intermediate)
Intermediate-level ballroom dance techniques in both rhythm and smooth dances.
Credits: 1
Prerequisites: DAN 126.
May be repeated to a maximum of four credits.

DAN 232 - Jazz Dance II
Intermediate techniques of jazz dance.
Credits: 1
Prerequisites: DAN 132, DAN 133.
May be repeated to a maximum of four credits.

DAN 235 - Ballet II
Intermediate techniques of ballet.
Credits: 1
Prerequisites: DAN 135.
May be repeated to a maximum of four credits.

DAN 238 - Modern Dance II
Intermediate techniques of modern dance.
Credits: 1
Prerequisites: DAN 138.
May be repeated to a maximum of four credits.

DAN 244 - Tap Dance (Intermediate)
Intermediate techniques of tap dancing.
Credits: 1
Prerequisites: DAN 144.
May be repeated to a maximum of four credits.

DAN 271 - Electricity for Dance Production
A study of the properties and basic principles of electricity as they relate to the utilization of light on the stage. Sound playback via Q-Lab will also be explored. Participation in cross-department productions is integral to the course.
Credits: 3

DAN 288 - Choreography II: Elements of Dance Composition
Elements of Choreography Composition including choreographic studies in Space, Time, Dynamics and basic forms.
Credits: 3
Prerequisites: Dance majors and minors only.

DAN 301 - World Dance
International historical concepts, systems and traditions of ethnic dance focusing on social and cultural motivations from many regions of Western and Eastern Europe, Asia, as well as Central and South America.
Credits: 3
Prerequisites: Any 100 or 200 level dance class and Sophomore standing.
Notes: Satisfies International Requirement.

DAN 308 - Pilates III
Credits: 2
Prerequisites: DAN 108, DAN 208.
May be repeated to a maximum of four credits.

DAN 309 - Music Theory for Dancers III
Survey of musical dance literature focusing on dance music of Medieval, Renaissance, Baroque, Classical, Romantic, and twentieth-century composers, with special attention to composer-choreographer collaborations.
Credits: 3
Prerequisites: DAN 209.

DAN 325 - Ballroom Dance (Advanced)
Advanced ballroom dance technique in rhythm and smooth dances, continuity styling, and an introduction to bolero or Paso double.
DAN 332 - Jazz Dance III  
Advanced techniques in jazz dance.  
Credits: 1  
Prerequisites: DAN 232.  
May be repeated to a maximum of six credits.

DAN 335 - Ballet (Advanced)  
Advanced techniques in ballet.  
Credits: 1  
Prerequisites: DAN 235, DAN 236.  
May be repeated to a maximum of six credits.

DAN 338 - Modern Dance III  
Advanced techniques in modern dance.  
Credits: 1  
Prerequisites: DAN 238.  
May be repeated to a maximum of six credits.

DAN 344 - Tap Dance (Advanced)  
Advanced techniques in tap dancing.  
Credits: 1  
Prerequisites: Any 100 or 200 level dance class and Sophomore standing.  
May be repeated to a maximum of six credits.

DAN 351 - Dance Kinesiology  
Study of the muscular and skeletal structures of the body involved in the discipline of dance. Emphasis on major muscle groups and joint actions, their capacity for movement, with special attention to the causes and prevention of dance injuries.  
Credits: 3  
Prerequisites: Any 100 or 200 DAN class and Sophomore Standing.

DAN 365 - Dance History I: Dance History to 1900  
Historical concepts, systems, traditions, and related arts of dance to 1900.  
Credits: 3  
Prerequisites: Any 100 or 200 dance class or Sophomore Standing.

DAN 367 - Dance Production I  
Techniques of staging performance. Study of the principles of costume, light, sound, and set design; makeup; box office management and publicity. Practical application in dance production.  
Credits: 3  
Prerequisites: Dance majors only.

DAN 369 - Aesthetics of Design for Dance  
Aesthetics of the visual components of dance production and experience in practical application of design.  
Credits: 3  
Prerequisites: Sophomore standing.

DAN 370 - Sound Design for Dance  
Provides technical understanding in the principles of sound design, basic recording techniques and video design for dance productions developed through lectures, demonstrations, projects, and production involvement.  
Credits: 3  
Prerequisites: DAN 209 and DAN 367.

DAN 371 - Lighting Design for Dance I  
Provides an understanding in the principles and techniques of lighting design and the collaborative process of dance production on an advanced level.  
Credits: 3  
Prerequisites: DAN 367 and DAN 467*

DAN 372 - Costume Construction for Dance  
Provides technical understanding of principles and techniques of costume for dance production. Techniques in makeup and hair application for dance production.  
Credits: 3  
Prerequisites: DAN 367 and DAN 467*

DAN 373 - Scenic Design for Dance I  
Provides technical understanding of principles and techniques in design and construction of small scenic prop pieces as well as scenic painting for dance production.
DAN 380 - Stage Management for Dance
Provides technical understanding of principles and techniques of stage management for dance production.
Credits: 3
Prerequisites: DAN 367 and DAN 467*

DAN 381 - Stage Management for Dance II
Advanced investigation of principles and techniques of stage management for dance production. Students will reinforce classroom discussions and demonstrate their comprehension of certain components of the course by participating in hands-on production work for the UNLV Dance Department’s season while working under the guidance and supervision of various faculty & production mentors.
Credits: 3
Prerequisites: DAN 367, DAN 380

DAN 384 - Bachelor of Fine Arts Project I
Choreographic process of producing dance pieces: concept, intention, structure, music, costume, dancers, technical needs, lighting, performance, etc. Creation and production of a dance piece to be auditioned for presentation in the UNLV concert season.
Credits: 3
Prerequisites: DAN 488, Dance BFA major only.

DAN 386 - Dance Design Project I
To assimilate and demonstrate the various aspects of dance production studied for in the BA in Dance Production/Management degree, which includes lighting design, costume design, set design, video design and stage management which, will be involved in the process of producing and staging a dance piece. Students will collaborate with a choreographer or they can opt to choreograph their own dance and design all the production elements that go with it.

DAN 387 - Dance Ensemble I
Participates as a member of a dance ensemble. Develops the skills necessary for participation in a dance arts company. Practical study in performance, ensemble class, rehearsal schedule, publicity, production, repertory, and technique. May be repeated to a maximum of eight credits. Audition required.
Credits: 2
Prerequisites: Dance BFA major, DAN 332, DAN 335, DAN 338. Audition required.
May be repeated to a maximum of eight credits.

DAN 388 - Choreography III: Principles of Composition
Continuing choreographic exploration in the elements of dance including studies on abstraction, motif manipulation, theme and variation and other choreographic techniques.
Credits: 3
Prerequisites: DAN 288.

DAN 421A - Entertainment and Fine Arts Law I
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.
Credits: 3
Notes: Same as AAD 421A, THTR 421A.

DAN 421B - Entertainment and Fine Arts Law II
Unique legal issues in the fields of live stage performance, theater, 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.
Credits: 3
Prerequisites: ART 421A, DAN 421A, MUS 421A, or
THTR 421A.
Notes: Same as AAD 421B, THTR 421B.

DAN 425 - Ballroom Formation Team
Competitive ballroom dance team active in local and regional competitions.
Credits: 1
Prerequisites: Audition.
May be repeated to a maximum of six credits.

DAN 432 - Jazz Dance IV
Professional-level jazz dance techniques. Preparation for professional performance.
Credits: 1
Prerequisites: DAN 332 or equivalent.
May be repeated to a maximum of six credits.

DAN 435 - Ballet IV
Professional-level ballet techniques. Preparation for professional performance.
Credits: 1
Prerequisites: DAN 335.
May be repeated to a maximum of six credits.

DAN 438 - Modern Dance IV
Modern dance techniques in preparation for professional performance.
Credits: 1
Prerequisites: DAN 338.
May be repeated to a maximum of six credits.

DAN 444 - Tap Dance (Professional)
Tap dance techniques in preparation for professional performance.
Credits: 1
Prerequisites: DAN 344.
May be repeated to a maximum of six credits.

DAN 451 - Prevention and Care of Dance Injuries
Anatomy in Clay, building muscle groups and studying the basic concepts of injury as applied to these muscle groups, immediate care of dance injuries, and the accelerated rehabilitation and safe return to activity.
Credits: 3
Prerequisites: DAN 351.

DAN 465 - Dance History II: 1900 to Present
Historical concepts, systems, traditions, and related arts of dance since 1900.
Credits: 3
Prerequisites: DAN 365
Notes: Satisfies Multicultural Requirement.

DAN 466* - Dance History III: Contemporary Trends
Trends in dance, music, and visual art relationships from the avant garde.
Credits: 3
Prerequisites: DAN 465.

DAN 467* - Dance Production II
Continuation of DAN 367, focuses on individualized supervision of production project. Students produce full-scale dance concerts and recitals by serving as production managers, stage managers, and lighting, sound, and/or costume/set technicians.
Credits: 3
Prerequisites: DAN 367.

DAN 470* - Video Design for Dance
Technical course that will analyze the use of video design as a scenic element for dance productions as well as create video designs for live dance productions.
Credits: 3
Prerequisites: DAN 367 and DAN 467*

DAN 471 - Lighting Design for Dance II
Provides understanding of principles and techniques of lighting design and the collaborative process of dance production on an advanced level. Continuation of DAN 371.
Credits: 3
Prerequisites: DAN 367 and DAN 371 and DAN 467*
DAN 472* - Costume Design for Dance
Provides understanding of principles and techniques of costume design and construction for dance production.
Credits: 3
Prerequisites: DAN 367 and DAN 372 and DAN 467*

DAN 473 - Scenic Design for Dance II
Provides understanding of principles and techniques in design of scenery and scenic elements on a larger scale for dance production stage as well as to be able to design for various performance venues other than the stage.
Credits: 3
Prerequisites: DAN 367 and DAN 373 and DAN 467*

DAN 475 - Dance Production Practicum
Provides practical experience for the dance production major. Students will demonstrate the skills they have learned as a Dance Production major by participating in hands-on production work for the UNLV Dance Department's season.
Credits: 1
Prerequisites: DAN 371, DAN 380
Notes: May be repeated for a maximum of 3 credits. Please verify that all credits will apply towards your degree.

DAN 477 - Special Topics in Dance
Study in special or unique areas of dance theory.
Credits: 1-3
Notes: Topics to be announced. This course is crosslisted with DAN 677. Credit at the 600-level requires additional work.
May be repeated to a maximum of six credits.

DAN 478 - Special Topics in Dance
Study in special or unique areas of dance technique.
Credits: 1-3
Notes: This course is crosslisted with DAN 678. Credit at the 600-level requires additional work.
May be repeated to a maximum of six credits.

DAN 479 - Methods of Teaching Dance
Study of techniques, practices, methods, and materials in dance education.
Credits: 3
Prerequisites: DAN 351 and DAN 332 and DAN 335 and DAN 338, senior standing.

DAN 480* - Business of Dance
Introduction to business aspects of dance career and company management including grants, posters, press packets, public relations and related issues.
Credits: 3
Prerequisites: DAN 367, junior standing.

DAN 484 - Bachelor of Fine Arts Project II
Involves full commitment to the creative process of choreography from conceptualization through performance of a concert dance to be programmed as part of the department's dance season.
Continues study of choreographic process: concept, intention, structure, music, costume, dancers, technical needs. All work will be accomplished under advisement of faculty.
Credits: 3
Prerequisites: DAN 384, Dance BFA major only.

DAN 485 - Dance Internship
Student rehearsal and performance in professional companies.
Credits: 1-3
Prerequisites: Consent of department chair.
Notes: This course is crosslisted with DAN 685.
Credit at the 600-level requires additional work.
May be repeated to a maximum of three credits.

DAN 486 - Dance Design Project II
To assimilate and demonstrate the various aspects of dance production learned for the BA in Dance Production/Management degree, which includes lighting design, costume design, set design, video design and stage management which, will be involved in the process of producing and staging a dance piece.
Credits: 3
Prerequisites: DAN 386 and Senior Standing.

**DAN 487 - Dance Ensemble II**
Modeled on professional standards and structure. Practical study in the dance forms: rehearsal, company class, performance, rehearsal schedule, publicity, and production. Rehearsals/performances to be arranged. May be repeated to a maximum of eight credits. Audition required.
Credits: 1
Prerequisites: DAN BFA major, DAN 332 and DAN 335 and DAN 338
Notes: Rehearsals/performances to be arranged. May be repeated to a maximum of eight credits.

**DAN 488 - Choreography IV: Theory and Practical Application**
Theory and practical application of selected advanced compositional techniques and forms of choreography including experience with dance and media.
Credits: 3
Prerequisites: DAN 388.

**DAN 490 - Independent Study**
Student designed projects in agreement with student advisor.
Credits: 1-3
May be repeated to a maximum of six credits.

**DAN 491 - Teaching Practicum**
Faculty directed student teaching in dance.
Credits: 3

**DAN 499 - Dance Seminar for the Professional**
Exploration of issues for the professional dancer who is seeking an education to continue with a career in dance after their current dance profession is over. This seminar is also a forum for professional dance students to share their experiences with our non-professional dance students who are looking to become dance professionals.
Credits: 3
Prerequisites: Student must be enrolled in the BFA for the Professional Dancer, and 6 credits of 300 or 400 level dance classes.
May be repeated to a maximum of six credits.
Department of Film

Purpose and Focus
The instruction leading to the Bachelor of Arts in Film is designed to give students a strong basis in one of two paths best fitting their professional goals: placement in a graduate program or in a professional position in the entertainment industry.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
Film

Admission to the Major
Minimum University GPA: 2.00

Admission Policies
Students not meeting the 2.00 GPA requirement may be admitted on a probationary basis in consultation with the Department and the College of Fine Arts Advising Center.

Transfer Policies
Articulation of transfer credits will be determined by the chairperson of the department.

Department Policies

Academic Policies
Students must maintain an overall 2.70 in all film courses to make satisfactory progress.

Advising
During the first two years of the program students meet with an advisor at the College of Fine Arts Advising Center. At the beginning of their junior year students meet with a film faculty member.

Film Major - (BA)

Film Major - Bachelor of Arts (BA)
Please see the UNLV College of Fine Arts - Department of Film web page at www.unlv.edu/film for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-film.

Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities

Learning Objectives

Outcome #1 Identify Film History in Context
By the end of the program students will be able to distinguish major figures instrumental in the creation of world cinema and distinguish different film genres, film forms, national cinemas, their production and distribution systems.

Outcome #2 Communicate Film Language

Outcome #3 Distinguish Knowledge
Comprehension Demonstrate

By the end of the program students will be able to communicate cinematic language in terms of the art and craft of cinema including: mise-en-scene, cinematography, editing, sound, acting, directing, narrative storytelling, documentary, film criticism and film theory.

Outcome #3 Recognize

Screen Story Recognition

By the end of the program students will be able to recognize and discuss strengths and weaknesses with structural elements of a cinematic story.

Outcome #4 Research

Film Research

By the end of the program students will be able to use the library, search the internet, and an understanding of a foreign language sufficiently to conduct emphasis-appropriate research in their selected field of cinema.

Outcome #5 Analyze

Film Analysis

By the end of this program the student will be able to recognize and describe the terms taught and apply them to any discussion of the field of cinema.

Outcome #6 Create

Filmmaking Fundamentals

By the end of this program the student will be able to write film essays, write in proper screenplay format, and create short films.
Outcome #7

Evaluation

Evaluate

Communicate

Film Response and Criticism

By the end of this program the student will be able to evaluate films and screenplays and communicate critical and oral responses.

Outcome #8

Select

Emphasis

Specialize

Track Specialization

Each Film major meets with an advisor to focus on one of these areas: film history, production, and screenwriting, short films. It is expected that the student meet actively with the advisor to tailor their track electives to meet their needs, interests, and goals.

University Graduation Requirements

• Please see Graduation Policies for complete information

Film Degree Requirements - Total: 120-123

General Education Requirements - Subtotal: 38-40 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6

• ENG 101 - Composition I
• ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

• HIST 101 - United States: Colonial Period to 1877
  or
• PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirement - Credits: 19

Please see Distribution Requirements for more information.

• Humanities and Fine Arts:
  o Automatically satisfied by Major requirements

• Social Science: 9 credits
  o One course each from three different fields

• Life and Physical Sciences and Analytical Thinking: 10 credits
  o Two courses from Life and Physical Science; at least one course must have a lab
  o Analytical Thinking - 3 credits
    • PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of
approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BA in Film - Subtotal: 60-63 Credits

Degree Requirements - Credits: 9
Computer Science - one 3 credit course required (may use FILM 315)
Foreign Language - two 3 credit courses
Students must enroll in two semesters of the same foreign language approved by the department.

Film Requirements - Credits: 54
- FILM 100 - Introduction to Film
- FILM 110 - Language of Film
- FIS 216 - Intro to Screenwriting
- FILM 220 - Film Production I
- FILM 414 - Cinematic Structure and either
- FILM 300 - Film Criticism or
- FILM 400 - Film Theory

Select three courses from the following:
- FILM 350 - Historical Survey of Screen Acting
- FILM 410 - Major Figures in the Cinema
- FILM 440 - The European Film
- FILM 441 - Drama and Film of German Expressionism
- FILM 445 - The Rise of Irish Cinema
- FILM 446 - History of the Russian Film
- FILM 470 - Women in Film
- FILM 474 - Sex in the Cinema
- FILM 475 - Modern Latin American Film
- FILM 493 - Studies in British Film
- FILM 494 - History of the American Film

Select two courses from the following:
- FILM 409 - Politics and the Film
- FILM 443 - From French Literature to Film
- FILM 444 - Documentary Film and Video
- FILM 495 - Film and Literature
- FILM 496 - American Hero in Film and Literature
- FILM 497 - Genre Studies in Film

Select seven upper division elective courses from additional film department offerings in concert with Film Advisor.

Electives - Credits: 18-19

Total Credits: 120-123

Film Minor

Courses Include - Total Credits: 18

- FILM 100 - Introduction to Film
- FILM 110 - Language of Film

Two courses selected from:
- FILM 350 - Historical Survey of Screen Acting
- FILM 410 - Major Figures in the Cinema
- FILM 440 - The European Film
- FILM 441 - Drama and Film of German Expressionism
- FILM 445 - The Rise of Irish Cinema
- FILM 446 - History of the Russian Film
- FILM 470 - Women in Film
- FILM 474 - Sex in the Cinema
- FILM 475 - Modern Latin American Film
- FILM 493 - Studies in British Film
- FILM 494 - History of the American Film
- FILM 495 - Film and Literature
- FILM 496 - American Hero in Film and Literature
- FILM 497 - Genre Studies in Film

and six additional upper-division (300-400) credits for the film curriculum.

Film

FILM 100 - Introduction to Film
Introduction to the history of international film, its structure and terminology. Development of cinematic techniques from Edison, Lumièrée, and Melies to prevailing contemporary trends.
surveyed, with special emphasis on major directors such as Eisenstein, Ford, Griffith, Lang, Hitchcock, Bergman, and Renoir.

Credits: 3
Notes: Satisfies Fine Arts Requirement.

**FILM 110 - Language of Film**
Introduction to studying feature films through lectures, discussions, and writing criticism. Investigation of what elements make film a unique art form through both textual and contextual analysis.

Credits: 3
Notes: Satisfies Fine Arts Requirement.

**FILM 200 - Film Analysis**
Inquiry into what makes film a unique medium of expression through analysis of formal elements. Creative and research-oriented projects investigate film and its relationship with other art forms.

Credits: 3
Prerequisites: FILM 100 or FILM 110.

**FILM 216 - Introduction to Screenwriting**
This course will introduce the student to the basics of screenwriting. It will involve the study of the three-act screenplay, format, plot, characterization, dialogue, theme, and scene dynamic. Study will include various short writing assignments, drafting of an outline, first draft and revised draft of 25-30 page screenplay.

Credits: 3

**FILM 220 - Film Production I**
Fundamentals of motion picture production including image composition, lighting, editing, and production planning.

Credits: 3
Prerequisites: FILM 100, FILM 110.

**FILM 300 - Film Criticism**
Analysis of feature films validated through research papers and oral presentations. Critical approaches surveyed include journalistic, humanist, auteurist genre, social science, historical, and theoretical.

Credits: 3
Prerequisites: FILM 220.

**FILM 314 - Script Supervising and Continuity Style**
Designed to teach the art and techniques of script supervising and continuity. Students will break down a script for pre-production and then cover the script supervisor's position on the set during shooting. By the end of the course, students will be well prepared to join any production team for film, TV, or commercials.

Credits: 3
Prerequisites: FILM 100 or FILM 110.

**FILM 315 - Film Editing**
Advanced course examining the theory, techniques, and practices of motion picture editing; use of standard editing equipment; and practical experience editing professional material.

Credits: 3
Prerequisites: FILM 220.

**FILM 316 - Advanced Nonlinear Film Editing**
Credits: 3
Prerequisites: FILM 315.

**FILM 317 - Film Sound**
Practical course on the theory, art and techniques of film sound. Students work on projects involving dialogue and sound effects recording, post production sound editing and sound design.

Credits: 3
Prerequisites: FILM 315.

**FILM 320 - Filmmaking Fundamentals**
Each filmmaker will create six short projects (3 silent and 3 with sound) using digital filmmaking technology. Working together as a team, students will be exposed to specific assignments that feature a broad spectrum of challenges using cinematic language and sequencing. Collaboration will be a central focus of the course.

Credits: 3
Prerequisites: FILM 220.
FILM 325 - Staging for the Screen
Advanced course in directing for the screen. Examines the concepts of camera coverage, staging within the frame, camera movement, and provides experience analyzing and directing short scenes.
Credits: 3
Prerequisites: FILM 220.

FILM 326 - Cinematography
Technical and aesthetic aspects of lighting design, composition, and operating explored through individual projects and in-class shoots. Students required to have access to a 35mm still camera.
Credits: 3
Prerequisites: FILM 220 and consent of instructor.

FILM 327 - Film Production Design
Examination and exploration of motion picture production design, focusing on its history, techniques, and practices.
Credits: 3
Prerequisites: FILM 220.

FILM 328 - Basic Grip and Electrical
The basic of effective studio gripping and lighting. The class offers a thorough knowledge of equipment, safety and tools. Lectures are combined with hands on workshops to teach state of the art technique.
Credits: 3
Prerequisites: FILM 220.

FILM 329 - Cinematography II
Credits: 3
Prerequisites: FILM 326.

FILM 330 - Pre-Production Approaches for Film and Video
Examination and exploration of the pre-production cycle, emphasizing the integration of digital technology.
Credits: 3
Prerequisites: FILM 220.

FILM 332 - Working in Film and TV Industry
Designed to prepare students for the 'real world' issues they will face as working artists in the entertainment industry. Through lecture, readings, assignments, interaction with visiting artists, and classroom exercises, students will expand their awareness of their personal path as well as the many paths of opportunity available to them.
Credits: 3
Prerequisites: FILM 100 or FILM 110.

FILM 335 - Professional Film Production Methods
Intensive workshop provides for weekly interaction with industry professionals.
Credits: 3
Prerequisites: FILM 220.

FILM 338 - Advanced Directing Workshop
Specialized course is designed to teach junior and senior film majors advanced directing techniques. Topics covered: scene analysis, maximizing coverage, and eliciting truthful performances. This is a workshop-style class that will require students to direct assigned scenes, share critiques, and receive direct feedback.
Credits: 3
Prerequisites: FILM 220.
May be repeated to a maximum of nine credits.

FILM 339 - Acting for the Film Director
An approach to acting for the screen, designed to teach film-directing students the ins and outs of the acting process.
Credits: 3
Prerequisites: FILM 100 or FILM 110.
May be repeated to a maximum of nine credit.

FILM 340 - Cinematography Workshop
Advanced course for upper division students who wish to explore visual storytelling and collaborative techniques in the context of shooting narrative scripts. The course will function side by side with Advanced Directing and the students enrolled in FILM 340 will serve as Cinematographers for projects inside and outside of class.
FILM 350 - Historical Survey of Screen Acting
Covers the study of historical survey of screen acting from beginnings of film and television to present days.
Credits: 3
Prerequisites: FILM 326 and consent of instructor.

FILM 352 - Scene Work for Directors
Covers the study of historical survey of screen acting from beginnings of film and television to present days. Introduces film student directors to script analysis and staging. Scene work directing will be required by all students. Students will leave this course with a better understanding on how to interpret the writer's intent and therefore enhance the storytelling process.
Credits: 3
Prerequisites: FILM 100 or FILM 110.

FILM 350 - Historical Survey of Screen Acting
Covers the study of historical survey of screen acting from beginnings of film and television to present days.
Credits: 3
Prerequisites: FILM 326 and consent of instructor.

FILM 400 - Film Theory
Leading theorists studied intensively through screening of feature films, readings in film theory, written analyses, and conference style oral presentations. Intended for film studies majors only.
Credits: 3
Prerequisites: FILM 100.

FILM 409 - Politics and the Film
Analysis of the political film. Themes treated include political power, corruption, war, revolution, propaganda, political socialization, and participation.
Credits: 3
Notes: Same as PSC 400F.

FILM 410 - Major Figures in the Cinema
Study of the works of major filmmakers through the auteur theory and other approaches. Different individuals studied each time course offered.
Credits: 3
Prerequisites: FILM 100.
May be repeated to a maximum of nine credits.

FILM 414 - Cinematic Structure
Advanced course in the textual analysis of feature films.
Credits: 3
Prerequisites: FILM 100 or FILM 110.

FILM 415 - Story Development
Basis of cinematic structure, emphasizing action, construction, tension, and character. Story development through motion picture formats.
Credits: 3
Prerequisites: FILM 220.
Notes: This course is crosslisted with FIS 615. Credit at the 600-level requires additional work.

FILM 416 - Screenwriting I
Study of the three-act screenplay, structure of dramatic scenes, and writing of a one hundred-twenty page first draft.
Credits: 3
Prerequisites: FILM 100 or FILM 110.
May be repeated to a maximum of nine credits.

FILM 417 - Screenwriting II
Teaches rewriting of a screenplay. From first draft through problem solving and rewriting to a tight, workable script.
Credits: 3
Prerequisites: FILM 416.
May be repeated to a maximum of six credits.

FILM 418 - Writing for Television I
With emphasis on the narrative exploration of the television hour-drama, students develop and complete one hour-drama spec script.
Credits: 3
Prerequisites: FILM 220.
Notes: This course is crosslisted with FIS 618. Credit at the 600-level requires additional work.
May be repeated to a maximum of six credits.
FILM 419 - Writing for Television II
As a continuation of FIS 418, students explore the television situation comedy and develop and complete one sit-com script.
Credits: 3
Prerequisites: FILM 418.
Notes: This course is crosslisted with FIS 619.
Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

FILM 420 - The Short Film Workshop
The Short Film Workshop exposes the students to the complete production cycle from presentation of story and screenplay through comprehensive pre-production and production and finishing with principal photography. Students will learn how to constructively view and critique dailies and edit the completed short film project.
Credits: 3
Prerequisites: FILM 220.
May be repeated to a maximum of nine credits.

FILM 422 - Short Film Archiving
Covers the study of the short film in an archival context. Students will study the acquisition, preservation, presentation and organization of the short film archive collection. For the film history student, it exposes them to the short film from the beginning of motion pictures to the accomplished work of today’s filmmakers. For the non-major, it exposes them to film history and the short film art form in specific.
Credits: 3
Prerequisites: FILM 100 or FILM 110.

FILM 431 - Music Video
Workshop-based class exploring music video. We will examine several types of the mixture of music and motion pictures in addition to looking at other art forms that can influence the music video.
Credits: 3
Prerequisites: FILM 220.

FILM 432 - Industry vs. Artistry in Film and Television
Explores relationship between art and economics in film and television by examining industry structures, philosophies, and practices which shape contemporary mass entertainment.
Credits: 3
Prerequisites: Junior standing.

FILM 434 - Producing for Hire
An introduction to the duties required of a producer hired to do a project. This course will cover the role and responsibility of the film producer in the areas of commercials, music videos, and film, encompassing areas from initial concept to pre-production through post-production.
Credits: 3
Prerequisites: FILM 220.

FILM 440 - The European Film
Survey of the major movements and themes of European cinema and related literature.
Credits: 3

FILM 441 - Drama and Film of German Expressionism
Examination of German film and literature of the 1910s and 1920s.
Credits: 3
Notes: Same as GER 441.

FILM 443 - From French Literature to Film
From a condensed analysis of narrative techniques and structure of original literary sources toward a detailed study of the basic problems connected with the grammar of film. Students expected to read the original literary work in translation and/or script if available.
Credits: 3
Notes: Same as FREN 443.

FILM 444 - Documentary Film and Video
Critical analysis of documentary film texts from historical and aesthetic perspectives. How non-
fiction film differentiates itself from classical narrative and experimental/avant-garde film. Credits: 3

**FILM 445 - The Rise of Irish Cinema**
To engage the student in the analytical study of the growth of the Irish film industry as an artistic movement. Particular attention will be paid to historical, cultural and literary references. The class format will be lecture, viewing of motion picture and class discussion and analysis.
Credits: 3
Prerequisites: FILM 100 or FILM 110.

**FILM 446 - History of the Russian Film**
Soviet cinema from the revolutionary films and path-breaking 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.
Credits: 3
Notes: Same as HIST 446.

**FILM 447 - Documentary Techniques**
A hands-on, part lecture, part workshop class exploring the making of verte (observational) style documentary films. The class will encourage students to focus on interesting, unique, and specific character behavior for the subjects of their future documentary films.
Credits: 3
Prerequisites: FILM 220.

**FILM 448 - Master Directing**
The Master Class in Directing is for film students interested in artistic techniques in screen directing. The course gives the film students the tools to advance their film-making skills in order to break into the film industry.
Credits: 3
Prerequisites: FILM 220.
This is a workshop style class which allows students to focus on different projects or techniques every semester, therefore the course is repeatable for up to 9 credits.

**FILM 449 - The History of French Film**
Survey and evolution of French film from silent to sound: surrealism, realism, and the New Wave. Includes the work of major filmmakers such as Clair, Renoir, Cocteau, Clouzot, Godard, Truffaut, etc. Films analyzed as works of art, social documents, and instruments of communication.
Credits: 3
Notes: Same as FREN 449.

**FILM 450 - Directed Studies in Film**
The Master Class in Directing is for film students just beginning the UNLV film program or just finishing their film-making studies or anywhere in-between. The course gives the film student the tools to advance their film-making skills in order to break into the film industry.
Credits: 1-3
Prerequisites: FILM 100.
May be repeated to a maximum of nine credits.

**FILM 453 - Co-Curricular Film Project**
Collaborative workshop in the production of short film in which selected students work to complete a project eligible for exhibition on the festival circuit.
Credits: 3
Prerequisites: FILM 220.
May be repeated to a maximum of six credits.

**FILM 470 - Women in Film**
Survey of international women filmmakers. Emphasis on women directors and their films and women involved in other aspects of production, including screenwriting, editing, and acting.
Credits: 3

**FILM 472 - Advanced Post Production Techniques**
This course is designed with the following objectives in mind: Provide students with a basic working knowledge of Adobe After Effects to create title sequences and visual effects. Provide
students with intermediate and advanced knowledge of video color theory and color correction and shading techniques in a variety of software applications. Provide students with advanced knowledge of authoring DVDs in DVD Studio.

Credits: 3
Prerequisites: FILM 315.
This is a workshop style class which allows students to focus on different projects or techniques every semester therefore the course is repeatable up to 9 credits.

FILM 473 - 3D Visual Effects for Film
Introduction to the fundamentals of integrating 3D computer graphics into live action film/video. This course focuses on the latest CGI software in the creation of three-dimensional computer graphics and compositing. The course also provides students with the theory and hands-on experience required to perform many of the tasks that make up today’s professional VFX pipeline. This is a workshop style class which allows students to focus on different projects or techniques every semester therefore the course is repeatable up to 9 credits.
Credits: 3
Prerequisites: FILM 220.

FILM 474 - Sex in the Cinema
A survey of films with sexual themes and/or adult content. These will be analyzed from historical, cultural, industry and genre perspectives.
DISCLAIMER These films contain nudity, sexual situations, and themes. If you are sensitive to or potentially offended by any of these issues then do not take this class.
Credits: 3
Prerequisites: FILM 100 or FILM 110.

FILM 475 - Modern Latin American Film
Cinematic treatments of modern Latin American socio-historical issues. Topics include industrialization, dictatorship and repression, redemocratization, 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.
Credits: 3
Prerequisites: Junior or senior standing, and consent of instructor.
Notes: Same as HIST 475.

FILM 479 - Adaptation Stage to Screen
Studies and evaluates how some "classic plays" were adapted and developed for the screen. Plays will be read and the adapted films will be screened. Discussions will be centered on whether the film or films captured the objective of the original play or whether it failed in its adaptation and most importantly why.
Credits: 3
Prerequisites: FILM 100 or FILM 110.

FILM 485 - Screen Acting for a Living
The Screen Acting for a Living class offers the film director the extended opportunity to learn the film acting craft through classroom scene work applied to screenplays and great dramatic texts. Many of the great dramas used in this class began on the stage and became great films. So much of today's film and television is so colloquial and lacking in the textual and sub-textual depth needed to ground the developing filmmakers. This class teaches fundamental analysis and application of that analysis in a truthful manner onscreen.
Credits: 3
Prerequisites: FILM 100 or FILM 110.
The advanced script analysis work, close reading technique, and affective emotional memory components of the class applied to the scene work provides a repeatable workshop up to 9 credits for interested students to continue to develop their understanding of this craft.

FILM 493 - Studies in British Film
Study of the history of British film emphasizing analysis of a variety of films. Examines particular genres, directors, and traditions peculiar to British film and the relationship of British film to England's broader cultural development.
FILM 494 - History of the American Film
Examination of the films of major directors from D.W. Griffith in the Biograph period (1908-1912) to the present. Film-makers such as John Ford, Howard Hawks, Orson Welles, George Cukor, Robert Flaherty, Frank Capra, Raoul Walsh, and others studied.
Credits: 3
Notes: Same as ENG 476A.
May be repeated to a maximum of nine credits.

FILM 495 - Film and Literature
Comparative study of the relations of prose, poetry, and drama to the structure and themes of the cinema, from Dickens to the present.
Credits: 3
Notes: Same as ENG 477A.

FILM 496 - American Hero in Film and Literature
Traces the origins and the development of the American hero from roots in myth, folklore, and history to the 1950s.
Credits: 3
Notes: Same as ENG 477B.

FILM 497 - Genre Studies in Film
Individual examinations of genre structures and themes, with emphasis on the development and the history of genres.
Credits: 3
Notes: Same as ENG 477C.
May be repeated to a maximum of nine credits.

FIS 216 - Intro to Screenwriting
This course will introduce the student to the basics of screenwriting. It will involve the study of the three-act screenplay, format, plot, characterization, dialogue, theme, and scene dynamic. Study will include various short writing assignments, drafting of an outline, first draft and revised draft of 25-30 page screenplay.
Credits: 3
School of Music

Purpose and Focus
The mission of the School of Music is to provide a professional artistic environment that supports programs of excellence in the education of musicians. Courses in music are designed to prepare graduates for professional music careers in teaching, performance, and composition and to enrich the cultural experience of all university students.

The School of Music offers many music courses that may be selected by non-music majors to satisfy university and College of Fine Arts requirements. In addition, university students may participate in the School of Music ensembles. Membership in the department’s instrumental and vocal ensembles is open to all university students by audition and/or consent of the instructor.

Accreditation
Northwest Commission on Colleges and Universities
National Association of Schools of Music

Undergraduate Majors
Music Technology - Bachelor of Arts
Music — Bachelor of Arts
Music — Bachelor of Music
  Jazz and Commercial Music/Jazz and
Commercial Music Composition Concentration
  Jazz and Commercial Music/Jazz and
Commercial Music Instrumental Performance Concentration
  Jazz and Commercial Music/ Jazz and
Commercial Music Vocal Performance Concentration

Certificates
Commercial Music Certificate 1 (specialist) in Performance
Commercial Music Certificate 2 (professional) in Performance
Commercial Music Certificate 1 (specialist) in Technology
Commercial Music Certificate 2 (professional) in Technology
Commercial Music Certificate: (specialist) in World Percussion

Areas of Concentration
Bachelor of Arts
The Bachelor of Arts in Music allows the student to pursue the study of music within the context of a liberal arts curriculum. The curriculum offers an intensive study of music as both an intellectual discipline and a performance art. In addition to classes, lessons, and performing ensembles common to the Bachelor of Music program, students pursuing the B.A. pursue more advanced music scholarship and research projects, as well as engage with other disciplines relevant to the study and performance of music.

Bachelor of Music
The Bachelor of Music degree is offered in the following areas of concentration:

Composition
The Bachelor of Music degree in Composition, with training in composition, orchestration, and arranging, prepares students for professional work in music.

Jazz and Commercial Music
The Bachelor of Music degree in Jazz and Commercial Music, with special areas of interest in Jazz and Commercial Music Instrumental and Vocal Performance and/or Composition, prepares students for a professional career in the field of jazz and commercial music.

Music Education
The Bachelor of Music degree in Music Education, a five-year program with special areas of interest in instrumental or vocal music prepares the student for a career in public school music teaching while earning Nevada teacher certification.
Performance
The Bachelor of Music degree in Performance, with special areas of interest in instrumental, vocal, and piano, prepares the student for a professional career in music.

All Bachelor of Music degrees provide thorough preparation for further study in music at the graduate level.

Admission to the Major
The School of Music requires a minimum GPA of 2.00 overall. A minimum GPA of 2.70 must be maintained in all music courses.

Admission Policies
New freshman should refer to the university requirements for admission. Each music major enrolling at UNLV for the first time must audition in the primary performance medium (principal instrument or voice classification) and must qualify for admission to MUSA lower-division applied study as specified in the course syllabus for this medium.

Transfer Policies
Transfer students must have earned at least a cumulative grade point average (GPA) of 2.50 in transferable college credits and 2.70 in the area of concentration. Transfer students must also audition in the appropriate primary performance medium (principal instrument or voice classification) and will be placed in the appropriate level of applied study based on the audition.

All entering freshman music majors and transfers from other institutions must take the Music Theory and Music History placement examinations for assignment to the appropriate level of music theory and music history study.

Department Policies
Principal Instrument/Voice Classification
Each music major must declare, with the approval of the faculty of music, a primary performance medium (principal instrument or voice classification) or a primary and a secondary medium, depending upon the special area of interest selected. Each music major must audition in the primary performance medium prior to registration in order to qualify for admission to MUSA lower-division of applied study. Those not qualifying must enroll in Applied Music for non-majors each semester until able to pass the audition. Applied lessons in the primary performance medium must be taken in sequence, beginning with lower-division applied music. Applied lessons may not be audited.

If a student chooses to change to another primary performance medium, the entire Principal Instrument/Voice Classification policy must be met for the new medium.

While enrolled in applied music lessons, each music major must perform regularly in studio and/or repertory class. Those enrolled in Applied Music III or above must perform on Convocation at the discretion of the instructor, but not less than once each semester.

Each music major, while enrolled in Applied Music for Majors, must appear before a departmental jury at the end of each semester for performance examination and grading recommendations. At the conclusion of Applied Music IV, the jury performance occurs before a committee representing the entire faculty of music. To advance to upper division applied study (Level V), the student must successfully complete four semesters of harmony, sight singing, and ear training and have made satisfactory progress toward his or her degree (see Satisfactory Progress).
Composition students enrolled in MUSA 451, Private Study in Composition, must present their work before a jury each semester.

**Piano Proficiency**

All undergraduate music majors must demonstrate piano proficiency as a requirement for graduation. The School of Music will not approve a student’s Graduation Application until notification is received from the piano faculty that the student has passed the Piano Proficiency Examination. For students majoring in Music Education, the Piano Proficiency Examination is part of the student teaching endorsement. The School of Music will not accept an application for student teaching placement until the student has passed the Piano Proficiency Examination. (NB: Music Education/Vocal students must complete two additional semesters of private piano instruction after passing the Piano Proficiency Examination and before beginning the student teaching experience. Students may not complete this requirement during the student teaching semester.)

Music majors must demonstrate satisfactory progress in their degree through concurrent registration in harmony, sight singing, ear training, and functional piano until these course sequences are completed. Accordingly, music majors enrolled initially in first-year music theory (MUS 201E) must concurrently enroll in Functional Piano I (MUS 109) and continue until the Functional Piano course sequence is completed. Functional Piano courses must be taken in sequence. A grade of 'C' or above is required in each Functional Piano course.

Transfer students and students with accomplished piano skills are placed in the appropriate Functional Piano course after demonstrating sufficient keyboard skills to the piano faculty. These same students may also choose a one-time opportunity to take the Piano Proficiency Examination (MUS 167) in lieu of enrolling in the Functional Piano sequence. However, if the Piano Proficiency Examination is not passed, the student is then placed in the appropriate Functional Piano course and must complete the sequence and retake the Piano Proficiency Examination.

When enrolling in Functional Piano IV (MUS 210), the student must also concurrently enroll in Piano Proficiency Examination (MUS 167). The Piano Proficiency Examination is separate from the Functional Piano course sequence. The sequence prepares the student for the Piano Proficiency Examination, but successful completion of the sequence does not exempt the student from the obligation to pass the Piano Proficiency Examination. However, students maintaining a grade of 'B' or above in each of the four Functional Piano courses are exempt from taking the Piano Proficiency Examination.

Members of the piano faculty administer the Piano Proficiency Examination during the Final Examination period at the conclusion of the fall and spring terms. The Examination is not scheduled at any other time during the academic term and no Examination is administered in summer.

**Music Theory Placement Examination**

All entering freshman music majors and transfers from other institutions must take the music theory placement examination for assignment to the appropriate level of music theory study. The examination consists of written harmony, dictation, and sight singing. Students not qualifying for placement in MUS 201, as determined by this examination, are required to take MUS 102. All other students will be assigned according to their demonstrated proficiency.

**Music History Placement Examination**

All entering freshman music majors and transfers from other institutions must take the Undergraduate Music History Placement Examination during the fall semester to evaluate students' basic music historical literacy and competence and ensure that students enroll in
appropriate music history courses. The date and time of the Examination will be announced each academic year. A grade of 70 out of the Examination’s 100 points is a passing grade. Students who pass the Examination may enroll, at their earliest convenience and on the advice of their advisors, in the MUS 341-343 sequence. A student who does not pass the Examination must enroll in MUS 131 before enrolling in the MUS 341-343 sequence. Students who show deficiencies in the essay portion of the exam may also be counseled to seek assistance with their language and writing skills.

Recital Attendance
For each semester of degree residence as a music major, every student must enroll in MUS 100, for a maximum of eight semesters, and attend a minimum of 10 approved on-campus concerts and/or recitals each semester as a member of the audience. Students not fulfilling this requirement will not be approved for graduation.

Ensemble Requirements
Ensemble participation is open to all students including non-degree seeking and or part time students. All students must audition for ensemble participation. Auditions will be held prior to the start of Fall and Spring semesters. Contact the ensemble director or area coordinator for audition times and places. Music majors are required to participate each semester of full-time enrollment in an ensemble appropriate both to their degree program and to their major instrument beginning with the first semester of full-time study. In the case where a designated ensemble of choice does not exist for the student (based on audition results) the student will consult with the primary applied professor to receive approval to enroll in an alternative ensemble. Students holding scholarships will consult the primary applied professor/area coordinator and ensemble director to determine/receive an alternative ensemble assignment.

Full-time students enrolled beyond their prescribed four-year (performance) or five-year (music education) degree time frame will continue to enroll in a minimum of one ensemble per semester until graduation.

Music students receiving the School of music scholarship support must participate in a minimum of two (2) ensembles each semester of full-time enrollment. In order to meet scholarship requirements, ensemble instrumentation or music departmental needs students that participate in more than two (2) ensembles must receive permission from the applied instructor and the music department chair. Consult the Undergraduate Catalogue for specific participation requirements in your degree program.

For students transferring to UNLV: The UNLV School of Music will accept one ensemble credit for each semester taken at another institution, as approved by the student’s area coordinator. UNLV School of Music will accept no more than a total of four (4) ensemble credits from another institution.

Primary Ensembles
Ensembles satisfying this category are as follows: a regular rehearsal schedule encompassing two or more days per week with a minimum of 2 ½ hours rehearsal time per week. Ensembles in this tier are designed to deliver instruction of advanced repertoire and pedagogical concepts to students possessing requisite musicianship and skill levels.

Secondary Ensembles
Ensembles in this category are as follows: a regular rehearsal schedule encompassing one to two days per week with a minimum of 1 ½ hours of rehearsal time per week. Ensembles in this tier are usually conducted and are designed to deliver instruction of mid-level repertoire and pedagogical concepts that will assist students to continue to develop skills or provide service to the music department.

Chamber Ensembles
Ensembles satisfying this category are as follows: a
regular rehearsal schedule encompassing one to two days per week with a minimum of 1 ½ hours rehearsal time per week. Distinctive characteristics in this category are small ensembles with one instrument or voice per part (trios, quartets, etc.) or small ensembles of like instruments. These ensembles are frequently coached and not conducted.

**Satisfactory Progress**
To ensure satisfactory progress toward completion of the degree, students must register concurrently for harmony, sight singing, ear training, and functional piano each semester until these course sequences are completed. A minimal grade point average of 2.70 must be maintained in all music courses except where noted by individual degree programs.

**Outcomes**
Students successfully completing undergraduate degrees offered by the School of Music will have acquired competencies sufficient to enter the job market in their areas of concentration. Performance majors are prepared to begin building careers as professional performers or private teachers. Music education graduates earn for teaching music in the state of Nevada and promise for success as school music teachers. All degrees in the School of Music offer thorough preparation for success in graduate music programs.

**Advising**
Freshman, sophomore and transfer students are advised in the College of Fine Arts Advising Center. Juniors and seniors are assigned an advisor in the School of Music. Students meet with their advisor once per semester, at which time an advising sheet is completed for the student’s department file. In the event a student is not assigned to an advisor contact the department chair. Variable elective credits must be approved by the student’s advisor.

**Jazz and Commercial Music Major - B.Mus.**

**Jazz and Commercial Music Major - Bachelor in Music (B.Mus.)**
Please see the College of Fine Arts web page at www.unlv.edu/finearts for information about department programs, faculty and facilities.

Please see advising information at the College of Fine Arts Advising at www.unlv.edu/finearts/advising

**Accreditation**
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - National Association of Schools of Music http://nasm.arts-accredit.org/

**Learning Outcomes**
Students graduating from the UNLV School of Music with a Bachelor of Music degree will:

1. perform in one primary performance medium, at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
2. demonstrate broad working knowledge of the solo repertoire for their primary performance medium, at a level appropriate for the area of specialization, and display essential skills to interpret a range of styles within that repertoire;
3. perform in solo and ensemble (large and small) settings at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
4. read solo and ensemble (large and small) literature at sight with fluency demonstrating both general musicianship and, in the primary performance medium, a skill level relevant to professional standards appropriate for the area of concentration;
5. demonstrate in written, verbal, aural, and visual methods knowledge of styles, composers, genres, forms and processes of Western European art music through present time, including contributions to this tradition made by composers of both genders and multicultural societies;

6. demonstrate knowledge of the principles of harmony, musical form, and compositional process, and the ability to use this knowledge in written, verbal, aural, and visual analyses;

7. demonstrate fluency in written fundamentals and aural comprehension of music theory (including aural dictation); utilize the piano for personal music study and instruction;

8. synthesize performance, historical, stylistic, analytical, and technological information to solve artistic problems and form musical interpretations, and convincingy communicate these solutions and interpretations in written, verbal, aural, and visual analyses;

9. develop and plan for instruction in P-12 settings (Music Education Only)

10. facilitate the technical development and artistic growth of students' musical skills through appropriate pedagogical techniques and methodologies (Music Education Only).

General Education Requirements - Subtotal 38-40

Jazz and Commercial Music Major - Bachelor in Music (B.Mus.)

Jazz and Commercial Music Degree Requirements - Total: 122-127 Credits

University Graduation Requirements

Please see Graduation Policies for complete information.

First-Year Seminar - Credits: 3

- CFA 100 - First Year Symposia or
- CFA 102 - Perspectives in Popular Music - Freshman Year Seminar

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirement - Credits: 19

Please see Distribution Requirements for more information.

**Humanities and Fine Arts**

Automatically satisfied by Major requirement

**Social Science: 9 Credits**

**Life and Physical Sciences and Analytical Thinking: 10 Credits**

PHIL 102 Critical Thinking and Reasoning and two courses from life and physical sciences category; at least one must be a lab.

**Multicultural and International**

Multicultural fulfilled by:

MUS 345 Jazz and Commercial Music History I

International fulfilled by:

MUS 342 Music History II

Major Requirement - B.Mus. in Jazz and Commercial Music - Composition - Subtotal: 86 Credits

**Music Core Requirements - Credits: 39**
• MUS 167 - Piano Proficiency
• MUS 181 - Business of Music
• MUS 201 - Musicianship I
• MUS 202 - Musicianship II
• MUS 303 - Musicianship III
• MUS 304 - Musicianship IV
• MUS 341 - Music History I
• MUS 342 - Music History II
• MUS 362 - Beginning Conducting

Ensembles: Students must enroll in two ensembles each semester for 8 semesters. One credit must be MUSE 131, MUSE 133, MUSE 431, MUSE 433, or other ensemble with approval of jazz & commercial music studies area advisor.

Jazz and Commercial Music - Composition

Requirements - Credits: 47

Applied lessons 4 semesters (levels I-IV)
• MUS 139 - Introduction to Music Technology
• MUS 217 - Introduction to Film Scoring
• MUS 252 - Jazz & Commercial Music Fundamentals
• MUS 257 - Jazz Keyboard
• MUS 258 - Elementary Jazz and Commercial Improvisation
• MUS 345 - Jazz and Commercial Music History I
• MUS 346 - Jazz & Commercial History II
• MUS 358 - Advanced Jazz and Commercial Music Improvisation
• MUS 359 - Beginning Jazz and Commercial Arranging and Composition
• MUS 365 - Beginning Orchestration
• MUS 399 - Junior Recital
• MUS 451 - Ensemble Methods for Jazz and Commercial Music
• MUS 457 - Jazz and Commercial Music Keyboard Seminar
• MUS 459 - Advanced Jazz and Commercial Arranging and Composition
• MUS 490 - Music Internship & Entrepreneurship
• MUS 499 - Senior Recital

• MUSA 453 - Private Jazz and Commercial Arranging and Composition (4 semesters)

Total Credits: 123-126

Major Requirement - B.Mus. in Music - Jazz and Commercial Music - Music Instrumental Performance
- Subtotal: 85 Credits

Music Core Requirements - Credits: 39

• MUS 167 - Piano Proficiency
• MUS 181 - Business of Music
• MUS 201 - Musicianship I
• MUS 202 - Musicianship II
• MUS 303 - Musicianship III
• MUS 304 - Musicianship IV
• MUS 341 - Music History I
• MUS 342 - Music History II
• MUS 362 - Beginning Conducting

Ensembles: Students must enroll in two ensembles each semester for 8 semesters. One credit must be MUSE 131, MUSE 133, MUSE 431, MUSE 433, or other ensemble with approval of jazz & commercial music studies area advisor.

Jazz and Commercial Music Instrumental Performance Requirements - Credits: 46

Applied lessons 8 semesters (levels I-VIII)
• MUS 139 - Introduction to Music Technology
• MUS 231 - Recording Technology I or
• MUS 239 - Virtual Studio Technology
• MUS 252 - Jazz & Commercial Music Fundamentals
• MUS 257 - Jazz Keyboard
• MUS 258 - Elementary Jazz and Commercial Improvisation
• MUS 345 - Jazz and Commercial Music History I
• MUS 346 - Jazz & Commercial History II
• MUS 357 - Jazz Form and Analysis
- MUS 358 - Advanced Jazz and Commercial Music Improvisation
- MUS 359 - Beginning Jazz and Commercial Arranging and Composition
- MUS 399 - Junior Recital
- MUS 451 - Ensemble Methods for Jazz and Commercial Music
- MUS 457 - Jazz and Commercial Music Keyboard Seminar
- MUS 459 - Advanced Jazz and Commercial Arranging and Composition
- MUS 490 - Music Internship & Entrepreneurship
- MUS 499 - Senior Recital
- MUSA 453 - Private Jazz and Commercial Arranging and Composition (4 semesters)

Total Credits: 122-125

Major Requirement - B.Mus. in Music - Jazz and Commercial Music - Vocal Performance - Subtotal: 85 Credits

**Music Core Requirements - Credits: 39**

- MUS 167 - Piano Proficiency
- MUS 181 - Business of Music
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 362 - Beginning Conducting

Ensembles: Students must enroll in two ensembles each semester for 8 semesters.
One credit must be
MUSE 131,
MUSE 133,
MUSE 431,
MUSE 433
or other ensemble with approval of jazz & commercial music studies area advisor.

Jazz and Commercial Music Vocal Performance Requirements - Credits: 48

- Applied lessons 8 semesters (levels I-VIII)
- MUS 231 - Recording Technology I
Music Major (BA)

Music Major - Bachelor of Arts (BA)
Please see the UNLV College of Fine Arts - School of Music web page at unlv.edu/music for information about department programs, faculty and facilities.

Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-music-recital and https://www.unlv.edu/degree/ba-music-history-literature.

Please see advising information at the UNLV College of Fine Arts Advising Center at unlv.edu/finearts/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - National Association of Schools of Music nasm.arts-accredit.org

Learning Objectives
1. Perform in one primary performance medium, at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
2. Demonstrate broad working knowledge of the solo repertoire for their primary performance medium, at a level appropriate for the area of specialization, and display essential skills to interpret a range of styles within that repertoire;
3. Perform in solo and ensemble (large and small) settings at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
4. Read solo and ensemble (large and small) literature at sight with fluency demonstrating both general musicianship and, in the primary performance medium, a skill level relevant to professional standards appropriate for the area of concentration;
5. Demonstrate in written, verbal, aural, and visual methods knowledge of styles, composers, genres, forms and processes of Western European art music through present time, including contributions to this tradition made by composers of both genders and multicultural societies;
6. Demonstrate knowledge of the principles of harmony, musical form, and compositional process, and the ability to use this knowledge in written, verbal, aural, and visual analyses;
7. Demonstrate fluency in written fundamentals and aural comprehension of music theory (including aural dictation);
8. Synthesize performance, historical, stylistic, analytical, and technological information to solve artistic problems and form musical interpretations, and convincingly communicate these solutions and interpretations in written, verbal, aural, and visual methods.

University Graduation Requirements
Please see Graduation Policies for complete information.

Music Major BA Requirements - Total: 120 - 122 Credits

General Education Requirements - Subtotal: 44-46 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6
• HIST 100 - Historical Issues and Contemporary Society
  or
• PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirement - Credits: 19

Please see Distribution Requirements for more information.

Humanities and Fine Arts:
• Automatically satisfied by Major requirements

Social Science: 9 credits
• One course each from three different fields

Life and Physical Sciences and Analytical Thinking: 10 credits
• Two courses from Life and Physical Science; at least one course must have a lab
• Analytical Thinking - 3 credits
  o PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

  Multicultural fulfilled by:
  • MUS 345 - Jazz and Commercial Music History I
  or
  • MUS 348 - Issues in American Music

  International fulfilled by:
  • MUS 342 - Music History II

  These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http:// facultysenate.unlv.edu/students.

Major Requirements - BA in Music - Subtotal: 76 Credits

Music Requirements - Credits: 46

• Applied lessons 6 semesters (levels I-VI)
• MUS 109 - Functional Piano I
• MUS 110 - Functional Piano II
• MUS 167 - Piano Proficiency
• MUS 201 - Musicianship I
• MUS 202 - Musicianship II
• MUS 209 - Functional Piano III
• MUS 210 - Functional Piano IV
• MUS 303 - Musicianship III
• MUS 304 - Musicianship IV
• MUS 341 - Music History I
• MUS 342 - Music History II
• MUS 343 - Music History III
• MUS 362 - Beginning Conducting
• Culminating Experience Course (MUS 491, MUS 492, or MUS 493)
• Required Applied Level I-IV
• Required ensemble (semesters 1-8) assigned by the department

Music Electives - Credits: 11-12

Six credits of upper-level music courses (MUS 345, MUS 401, MUS 491, MUS 492, or MUS 493). See Note 1 below.

Other Electives - Credits: 18-19

Two semesters (6 credits) must be in the study of a major foreign language. See Notes 2 and 3.

Total Credits: 120 - 122

Notes

1. Music electives to be taken in applied music, history, literature, theory, or conducting.
2. Six credits (normally two semesters) of a foreign language are required; a student
may satisfy this requirement by demonstrating foreign (non-English) language proficiency by placement exam.
3. Apart from the foreign language requirement, additional electives may be taken in any subject.
4. Senior project advisor to be determined during junior year.
The Bachelor of Arts in Music will not satisfy certification requirements for music education.

**Music Major - B.Mus.**

**Music Major - Bachelor in Music (B.Mus.)**
Please see the College of Fine Arts web page at www.unlv.edu/finearts for information about department programs, faculty and facilities.


Please see advising information at the College of Fine Arts Advising at www.unlv.edu/finearts/advising.

**Accreditation**
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Program - National Association of Schools of Music nasm.arts-accredit.org/

**Learning Outcomes**
Students graduating from the UNLV School of Music with a Bachelor of Arts degree will:

1. perform in one primary performance medium, at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
2. demonstrate broad working knowledge of the solo repertoire for their primary performance medium, at a level appropriate for the area of specialization, and display essential skills to interpret a range of styles within that repertoire;
3. perform in solo and ensemble (large and small) settings at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
4. read solo and ensemble (large and small) literature at sight with fluency demonstrating both general musicianship and, in the primary performance medium, a skill level relevant to professional standards appropriate for the area of concentration;
5. demonstrate in written, verbal, aural, and visual methods knowledge of styles, composers, genres, forms and processes of Western European art music through present time, including contributions to this tradition made by composers of both genders and multicultural societies;
6. demonstrate knowledge of the principles of harmony, musical form, and compositional process, and the ability to use this knowledge in written, verbal, aural, and visual analyses;
7. demonstrate fluency in written fundamentals and aural comprehension of music theory (including aural dictation);
8. utilize the piano for personal music study and instruction;
9. synthesize performance, historical, stylistic, analytical, and technological information to solve artistic problems and form musical interpretations, and convincingly communicate these solutions and interpretations in written, verbal, aural, and visual methods.
10. develop and plan for instruction in P-12 settings (Music Education Only)
11. facilitate the technical development and artistic growth of students' musical skills through appropriate pedagogical techniques and methodologies (Music Education Only).

University Graduation Requirements
- Please see Graduation Policies for complete information

Music Major - Bachelor of Music

Music Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 37-40

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society
  or
- PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirement: Credits: 19
Please see Distribution Requirements for more information.

- Humanities and Fine Arts
  - Automatically satisfied by Major requirement
- Social Science: 9 Credits
- Life and Physical Sciences and Analytical Thinking: 10 Credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

Multicultural and International

Multicultural fulfilled by:
- MUS 345 - Jazz and Commercial Music History I
  or
- MUS 348 - Issues in American Music

International fulfilled by:
- MUS 342 - Music History II
  or
- MUS 343 - Music History III

Multicultural and International for Musical Education/Instrumental Concentration

Multicultural fulfilled by:
- EDU 280 - Valuing Cultural Diversity

International fulfilled by:
- MUS 342 - Music History II

Major Requirement - B.Mus. in Music - Composition/Instrumental - Subtotal: 80 Credits

- MUS 167 - Piano Proficiency
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
• MUS 342 - Music History II
• MUS 343 - Music History III
• MUS 362 - Beginning Conducting

• **Ensembles:** Student must enroll in at least one ensemble per semester for a total of 8 ensemble credits as assigned by department.

**Instrumental Requirements - Credits: 46**

(see note 1 below)

• Applied lessons 6 semesters (levels I-VI) 12 credits
• MUS 109 - Functional Piano I
• MUS 110 - Functional Piano II
• MUS 113 - Fundamentals of Music Composition I
• MUS 209 - Functional Piano III
• MUS 210 - Functional Piano IV
• MUS 213 - Fundamentals of Music Composition II
• MUS 365 - Beginning Orchestration
• MUS 399 - Junior Recital
• MUS 401 - Counterpoint
• MUS 408* - Form and Analysis
• MUS 465 - Advanced Orchestration
• MUS 499 - Senior Recital
• MUSA 165 - Piano for Non-Majors (4 credits)
• MUSA 451 - Private Composition (12 credits)

(see notes 2 and 3 below)

**Music History or Theory Elective - Credits: 5**

**Total Credits: 120**

**Notes:**

1. Students must complete MUS 109, MUS 110, MUS 209, and MUS 210 or show proficiency.
2. Optional Jazz Emphasis — MUS 251, MUS 257, MUS 258, MUS 345, MUS 359, MUSA Jazz Lessons (6 credits). May use three credits of MUSE 131, MUSE 431 to fulfill ensemble requirement of 3 credits. 20 credits.
3. Composition majors must fulfill Theory/Musicianship courses (MUS 102) with a minimum grade of B-.

**Composition/Piano Concentration**

**Major Requirement - B.Mus. in Music - Composition/Piano - Subtotal: 80 Credits**

**Music Core Requirements - Credits: 37**

• MUS 100 - Concert Attendance
• MUS 167 - Piano Proficiency
• MUS 201 - Musicianship I
• MUS 202 - Musicianship II
• MUS 203 - Musicianship III
• MUS 204 - Musicianship IV
• MUS 341 - Music History I
• MUS 342 - Music History II
• MUS 343 - Music History III
• MUS 362 - Beginning Conducting

• **Ensembles:** Student must enroll in at least one ensemble per semester for a total of 8 ensemble credits as assigned by department.

**Piano Requirements - Credits: 40**

• Applied lessons 6 semesters (levels I-VI)

• MUS 113 - Fundamentals of Music Composition I
• MUS 213 - Fundamentals of Music Composition II
• MUS 365 - Beginning Orchestration
• MUS 372 - Advanced Instrumental Conducting
• MUS 399 - Junior Recital
• MUS 401 - Counterpoint
• MUS 408* - Form and Analysis
• MUS 465 - Advanced Orchestration
• MUS 499 - Senior Recital
• MUSA 451 - Private Composition (12 credits)

**Music Applied for non-majors Elective - Credits: 6**

**Music History or Theory Elective - Credits: 5**
Total Credits: 120

Notes:

1. Students must complete MUS 109, MUS 110, MUS 209, and MUS 210 or show proficiency.
2. Optional Jazz Emphasis - MUS 251, MUS 257, MUS 258, MUS 345, MUS 359. MUSA Jazz Lessons (6 credits). May use three credits of MUSE 131, MUSE 431 to fulfill ensemble requirement. 20 credits.
3. Composition majors must fulfill Theory/Musicianship courses (MUS 102, MUS 404E, MUS 404F) with a minimum grade of B-.

Music Major - Composition/Vocal Concentration

Major Requirements - B.Mus. in Music - Composition/Vocal - Subtotal: 77 Credits

Music Core Requirements - Credits: 34

- MUS 100 - Concert Attendance
- MUS 167 - Piano Proficiency
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

Ensembles: Students must enroll in at least one ensemble per semester for a total of 8 ensemble credits as assigned by department.

Vocal Requirements - Credits: 46

(see note 1 below)

- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 113 - Fundamentals of Music Composition I

- MUSA 145 - Voice I
- MUSA 146 - Voice II
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 213 - Fundamentals of Music Composition II
- MUSA 245 - Voice III
- MUSA 246 - Voice IV
- MUS 345 - Voice V
- MUS 346 - Voice VI
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 408* - Form and Analysis
- MUS 465 - Advanced Orchestration
- MUS 499 - Senior Recital
- MUSA 165 - Piano for Non-Majors (4 credits)
- MUSA 451 - Private Composition (12 credits) (see notes 2 and 3 below)

Music History or Theory Elective - Credits: 5

Total Credits: 120

Notes:

1. Students must complete MUS 109, MUS 110, MUS 209, MUS 210 or show proficiency.
2. Optional Jazz Emphasis — MUS 251, MUS 257, MUS 258, MUS 345, MUS 359, MUSA Vocal Jazz Lessons (6 credits). May use three credits of MUSE 131, MUSE 431, to fulfill ensemble requirement. 20 credits.
3. Composition majors must fulfill Theory/Musicianship courses with a minimum grade of B-.

Major Requirement - B.Mus. in Music - Education/Instrumental Concentration - Subtotal: 107 Credits

Students whose primary instrument is guitar or piano must choose either the vocal or instrumental music education track.

The following curriculum applies for Instrumental Music Education:
Music Core Requirements - Total Credits: 33
(see note 1)
- MUS 100 - Concert Attendance
- MUS 167 - Piano Proficiency
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting
- MUSE — Choral Ensemble - 1 cr.
- MUSE — Choral Ensemble - 1 cr.
- and required ensemble (semesters 1-8) assigned by the department. - 8 cr. (See note 4)

Education Core Requirements - Credits: 24
- MUS 481E - Elementary Supervised Student Teaching: Music
- MUS 481S - Secondary Supervised Student Teaching: Music
- EPY 451 - Foundations of Educational Assessment
- EDSP 411 - Students with Disabilities in General Education Settings
- EDSP 432 - Parent Involvement and Family Engagement for Students with/without Disabilities
- EDU 280 - Valuing Cultural Diversity

Total Credits: 143-146

Notes:
1. Every student must pass MUS 167 Piano Proficiency before registering for MUS 399 and student teaching.
2. In order to teach, students must have an overall grade point average (GPA) of 2.75 or higher and no grade below C, passing scores on the PPST, completion of all professional course requirements and complete the required fingerprinting.
3. It is highly recommended that students take and pass PRAXIS II tests in order to complete the Nevada Department of Education requirements for licensure and qualify for employment in the state.
4. Drum-Set and Jazz Guitar majors seeking a Music Education Degree are required to take 6 semesters of 1 credit applied lessons in their primary instruments and 6 semesters of 1 credit classical applied lessons, and attend classical repertoire and jazz repertoire classes during their course of study.

Music Major - Music Education/Vocal Concentration

Major Requirement - B.Mus. in Music - Music Education/Vocal Concentration Subtotal: 110 Credits

Students whose primary instrument is guitar or piano must choose either the vocal or instrumental music education track.

The following curriculum applies for Vocal Music Education:

Vocal Music Core Requirements - Total Credits: 32
- MUS 100 - Concert Attendance (8 semesters - 0 credits)
- MUS 167 - Piano Proficiency (See note 1)
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting
- MUSE 377 - Orff Ensemble and required ensemble (semesters 1-8) assigned by the department.

Education Core Requirements - Total Credits: 24
- MUS 481E - Elementary Supervised Student Teaching: Music
- MUS 481S - Secondary Supervised Student Teaching: Music

432
• EPY 451 - Foundations of Educational Assessment  
• EDSP 411 - Students with Disabilities in General Education Settings  
• EDSP 432 - Parent Involvement and Family Engagement for Students with/without Disabilities  
• EDU 280 - Valuing Cultural Diversity

Vocal Requirements - Credits: 54

Applied lessons 6 semesters (level I-VI)
• MUS 109 - Functional Piano I  
• MUS 110 - Functional Piano II  
• MUS 143 - Diction for Singers I  
• MUS 144* - Diction for Singers II  
• MUS 209 - Functional Piano III  
• MUS 210 - Functional Piano IV  
• MUS 271 - Introduction to Music Education  
• MUS 373 - Advanced Choral Conducting (2 semesters - 1 credit each)  
• MUS 375 - Instrumental Methods  
• MUS 376 - Choral Methods  
• MUS 378 - Teaching General Music  
• MUS 385 - String Class Methods  
• MUS 386 - Percussion Class Methods  
• MUS 387 - Brass Class Methods  
• MUS 388 - Woodwind Class Methods  
• MUS 391 - Teaching of Marching Band Techniques  
or  
• MUS 451 - Ensemble Methods for Jazz and Commercial Music

• MUS 399 - Junior Recital  
• MUS 408* - Form and Analysis  
• MUS 414* - Choral Literature  
• MUS 417* - Vocal Pedagogy  
• MUS 452A - Practicum I: General Music  
• MUS 452B - Practicum II: Choral/Vocal  
• MUS 452C - Practicum III: Instrumental  
• MUSA 300 - Piano for Music Educators (2 semesters)

**OPTION:** Vocal students who want to include a jazz option must add the following courses beyond the degree requirements (Credits: 20)
• MUS 251 - Jazz Fundamentals

• MUS 257 - Jazz Keyboard  
• MUS 258 - Elementary Jazz and Commercial Improvisation
• MUS 345 - Jazz and Commercial Music History I  
• MUS 359 - Beginning Jazz and Commercial Arranging and Composition (1 semester)  
• MUSA_____Jazz Lessons Level 1, 2 credits  
• MUSA_____Jazz Lessons Level 11, 2 credits  
• MUSA_____Jazz Lessons Level 111, 2 credits  
• MUSE _____ Jazz Ensemble (2 lg/ 1 sm.)

Total Credits: 147

Notes:

1. Every student must pass MUS 167 Piano Proficiency before registering for MUS 399 and student teaching.
2. In order to teach, students must have an overall grade point average (GPA) of 2.75 or higher and no grade below C, passing scores on the PPST, completion of all professional course requirements and complete the required fingerprinting.
3. It is highly recommended that students take and pass PRAXIS II tests in order to complete the Nevada Department of Education requirements for licensure and qualify for employment in the state.
4. Drum-Set and Jazz Guitar majors seeking a Music Education Degree are required to take 6 semesters of 1 credit applied lessons in their primary instruments and 6 semesters of 1 credit classical applied lessons, and attend classical repertoire and jazz repertoire classes during their course of study.

Performance/Instrumental

Multicultural and International

Multicultural fulfilled by:
- MUS 345 - Jazz and Commercial Music History I
  or
- MUS 348 - Issues in American Music

  International fulfilled by:
  - MUS 342 - Music History II

Major Requirements - B.Mus. in Music
Performance/Instrumental Concentration - Subtotal: 68 Credits

Music Core Requirements - Credits: 36
- MUS 100 - Concert Attendance
- MUS 139 - Introduction to Music Technology
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting
- Ensembles: Students must enroll in at least one ensemble per semester for a total of 10 ensemble credits which includes two chamber music ensembles and four semesters of MUSE 172 - Accompanying (see below) as assigned by department.

Instrumental Requirements - Credits: 32
Applied lessons 8 semesters (level I-VIII)
- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 408* - Form and Analysis
- MUS 419* - Instrumental Pedagogy
  or
- MUS 470 - Endangered Instrument Project Teaching Practicum
- MUS 480* - The Healthy Musician
- MUS 499 - Senior Recital
  Applied lessons 8 semesters (levels I-VIII)

Music History Elective - Credits: 3

Music Business Elective - Credits: 2-3

Music Electives - Credits: 6

Other Electives - Credits: 3

Total Credits: 120-123

Notes:

1. Students must complete MUS 109, MUS 110, MUS 209 and MUS 210 or show proficiency.
2. Optional Jazz Emphasis MUS 251, MUS 257, MUS 258, MUS 345, MUS 359, MUSA____Jazz Lesson (6 credits). May use three credits of MUSE 131/MUSE 431 to fulfill ensemble requirement. 13 credits.

Performance/Piano

Multicultural and International

Multicultural fulfilled by:
- MUS 345 - Jazz and Commercial Music History I
  or
- MUS 348 - Issues in American Music

  International fulfilled by:
  - MUS 342 - Music History II

Major Requirement - B.Mus. in Music
Performance/Piano Concentration - Subtotal: 67 Credits

Music Core Requirements - Total Credits: 36
- MUS 100 - Concert Attendance
- MUS 139 - Introduction to Music Technology
- MUS 167 - Piano Proficiency
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting
- Ensembles: Student must enroll in at least one ensemble per semester for a total of 10 ensemble credits which includes two chamber music ensembles and four semesters of MUSE 172 /MUSE 472 (see below) as assigned by department.
- MUSE 172 - Accompanying (4 semesters) (see below) as assigned by department

Piano Requirements - Credits: 34

Applied lessons 8 semesters (level I-VIII)
- MUS 331 - Piano Literature I
- MUS 332 - Piano Literature II
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 405 - Keyboard Harmony
- MUS 408* - Form and Analysis
- MUS 418* - Piano Pedagogy
- MUS 499 - Senior Recital

Music History Elective - Credits: 3

Music Business Elective - Credits: 2-3

Other Electives - Credits: 10

Total Credits: 120

Notes:

1. Students must complete MUS 109, MUS 110, MUS 209 and MUS 210, or show proficiency.
2. Optional Jazz Emphasis - MUS 251, MUS 257, MUS 258, MUS 345, MUS 359. May use three credits of MUSE 131/MUSE 431 to fulfill ensemble requirement. 20 credits.

Performance/Vocal

Multicultural and International

Multicultural fulfilled by:
- MUS 345 - Jazz and Commercial Music History I
  or
- MUS 348 - Issues in American Music

International fulfilled by:
- MUS 342 - Music History II

Major Requirement - B.Mus. in Music - Performance/Vocal Concentration - Subtotal: 83 Credits

(see note 1 below)

- MUS 100 - Concert Attendance
- MUS 139 - Introduction to Music Technology
- MUS 167 - Piano Proficiency
- MUS 201 - Musicianship I
- MUS 202 - Musicianship II
- MUS 303 - Musicianship III
- MUS 304 - Musicianship IV
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting and required ensemble (semesters 1-8) assigned by the department.

Vocal Requirements - Credits: 49

- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 143 - Diction for Singers I
- MUS 144* - Diction for Singers II
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 408* - Form and Analysis
- MUS 417* - Vocal Pedagogy
- MUS 426* - Vocal Literature
- MUS 499 - Senior Recital
Music History Elective - Credits: 3

FREN 113, GER 113, or ITAL 113 - Credits: 3

(1 semester of a different foreign language than above)

Electives - Credits: 5

Total Credits: 120

Notes:

1. Students must complete MUS 109, MUS 110, MUS 209 and MUS 210 or show proficiency.
2. Optional Jazz Emphasis MUS 251, MUS 257, MUS 258, MUS 345, MUS 359, MUSA____Jazz Lessons. May use three credits of MUSE 131/MUSE 431 to fulfill ensemble requirement. 20 credits.

Music Minor

The music minor offers students an opportunity to acquire basic knowledge of music theory, music history, and performance skills.

Courses Include - Total Credits: 26

The Music Minor includes:

- MUS 100 - Concert Attendance (two semesters)
- MUS 131 - Introduction to Music Literature
- MUS 202F - Basic Musicianship IIF
  
  two semesters of applied music at two credits each; two credits of ensemble; and 12 credits of upper-division electives selected from the following: applied study (maximum of four credits), ensemble (maximum of four credits), music theory /history (maximum of six additional credits), music education (maximum of three credits), music technology (maximum of three credits), and conducting (maximum of four credits).

Music Technology Minor

Courses Include - Total Credits: 24

The music technology minor offers students’ knowledge of using modern technology to create and record music for different media platforms such as CD/DVD, video and Internet. Courses emphasize hands-on experience.

The music technology minor includes:

- MUS 139 - Introduction to Music Technology
- MUS 230 - Computer Music Technology II
- MUS 231 - Recording Technology I
- MUS 232 - Recording Technology II
- MUS 239 - Virtual Studio Technology
- MUS 319 - Multimedia for the Professional
- MUS 320 - Large Console Recording
- MUS 321 - Studio Recording III
- MUS 433* - Advanced HD and Surround Sound
- MUSA 133 - MIDI for Music Technology
- MUSA 233 - Advanced Concepts in Computer Music

Commercial Music Certificate 1 (Specialist) in Performance - Total Credits: 13

The Commercial Music Certificate 1 (specialist) in Performance is a program of study focusing on jazz,
popular, and commercial music. It is designed for students that have a future in the music industry as performers who do not need a complete four-year academic degree program. The emphasis is on acquiring essential knowledge and practical performance experience to prepare, or enhance a performance based career.

Courses include:

MUSA 100 level 1001 and 1002 Non-Applied Lessons
MUS 125 History of Rock Music
MUS 181 Business of Music
MUSE 138 Studio Combo
MUS 141A Commercial Music Theory and Arranging 1

Commercial Music Certificate 2
(Professional) in Performance - Total Credits: 27

The Commercial Music Certificate 2 (professional) in Performance is a more advanced program of study that builds on the certificate 1 expertise learned in jazz, popular, and commercial music styles. The professional certificate is designed for advanced students pursuing a professional in the music industry as performers who do not need a complete four-year academic degree program. The emphasis is on expanding fundamental knowledge and practical performance experience to enhance a performance based career.

Courses include:

MUSA 100 level 1001 and 1002 Non-Applied Lessons
MUS 127* The World's Music: Live!
MUS 134* Jazz Appreciation
MUSE 138 Studio Combo
MUS 141B Commercial Music Theory and Arranging 2

Commercial Music: World Percussion (Specialist) - Total Credits: 13

The World Percussion Certificate provides students with a well-rounded program of study of world percussion in relation to commercial music. An understanding of historical elements in both traditional and contemporary settings is provided through:

- MUS 125 History of Rock Music
- MUS 127* The World's Music: Live!
- MUS 169 World Percussion Techniques
- MUSE 167 World Percussion Ensemble
- Private lessons MUSA 164 Percussion for Non-Majors-1001 and 1002 provide one on one attention to learn and refine world percussion instrument-specific skills.

Music Technology Certificate 1

The music technology certificate 1 provides students with the knowledge to use modern technology to record, mix and produce music in a variety of practical settings. It is designed for students that have a future in the music industry in technology who may not need a four-year academic degree program. The emphasis is on acquiring essential knowledge and practical experience to prepare, or enhance a career immediately in the industry.

Total Credits: 15

Courses include:

- MUS 125 History of Rock Music
- MUS 139 Introduction to Music Technology
- MUS 230 Computer Music Technology II
- MUS 231 Recording Technology I
- MUS 232 Recording Technology II
  and optional elective
- MUS 239 Virtual Studio Technology
Music Technology Certificate 2

The music technology certificate 2 provides students with a professional approach to modern technology to record, mix and produce music in a variety of practical settings. It is designed for students that have a future in the music industry in technology, and already have an understanding of current practices, who may not need a four-year academic degree program. The emphasis is on acquiring essential knowledge and practical experience to prepare, or enhance a career immediately in the industry.

Total Credits: 27

Courses include:

All certificate 1 courses - pre-requisite

- MUS 319 Multimedia for the Professional
- MUS 239 Virtual Studio Technology
- MUS 320 Large Console Recording
- MUS 321 Studio Recording III

World Percussion Certificate

The World Percussion Certificate provides students with a well-rounded program of study of world percussion in relation to commercial music. An understanding of historical elements in both traditional and contemporary settings is provided.

Courses Include - Total Credits: 13

MUS 125 History of Rock Music
MUS 127* The World's Music: Live!
MUS 169 World Percussion Techniques
MUSE 167 World Percussion Ensemble
Private lessons (MUSA 164-1001 and 1002) provide one on one attention to learn and refine world percussion instrument-specific skills.

Music

MUS 100 - Concert Attendance
Attendance at least ten on-campus concerts and/or recitals as a member of the audience.
Credits: 0
Notes: Required of every music major each semester throughout degree residency, to a maximum of eight semesters. (Fee equivalency: 0 credit.)

MUS 101 - Music Fundamentals
Introduction to music reading. Study of notation, rhythm, scales, intervals, and chords with emphasis on ear training. Recommended for elementary education majors and anyone interested in learning to sing or play an instrument.
Credits: 3
Notes: Open to non-majors only. Satisfies Fine Arts Requirement.

MUS 102 - Beginning Music Theory
Review course designed for music majors whose background in music theory is not sufficient for admittance into MUS 201. Not applicable to degree with a major in music. Rudimentary harmony, notation, scales, intervals, chords, part writing. Entry level sight-singing and ear training. Pass with C- at least or 70%.
Credits: 2
Notes: S/F grading only.

MUS 103 - Voice Class I
Class instruction in the fundamentals of correct breathing, tone production, and diction. Designed for non-music majors with little or no previous voice training.
Credits: 3

MUS 104 - Voice Class II
Class instruction for students with previous vocal training to apply techniques of singing and acquire additional repertoire in environment suitable for
performance.
Credits: 3

**MUS 105 - Vocal Techniques**
Fundamentals of tone production, breath control, diction and practical techniques involved in reading and interpreting songs.
Credits: 2
Prerequisites: MUS 109.

**MUS 107 - Guitar Class I**
Beginning guitar. Basic guitar technique. Recommended for non-music majors and elementary school teachers.
Credits: 3
Prerequisites: No previous musical training required.

**MUS 108 - Guitar Class II**
Beginning guitar. Basic guitar technique. Recommended for non-music majors and elementary school teachers.
Credits: 3
Prerequisites: No previous musical training required.

**MUS 109 - Functional Piano I**
Beginning piano for music majors only. Continued instruction in piano for music majors.
Credits: 1

**MUS 110 - Functional Piano II**
Continued instruction in piano for music majors.
Credits: 1

**MUS 111 - Piano Class I**
Beginning piano. Basic piano technique. Recommended for non-music majors and elementary school teachers.
Credits: 3
Notes: No previous musical training required.

**MUS 113 - Fundamentals of Music Composition I**
Theoretical and practical approach to basic techniques and principles of music composition.

**MUS 115 - Singing for Actors I**
Basic skills in musicianship, vocal production, breath support, and use of singing voice. Prepares students for private study and musical theatre stage.
Credits: 3

**MUS 116 - Singing for Actors II**
Continued instruction in vocal technique and its application to the musical theater stage. Primary focus on vocal health and maintenance through the study of operatic vocal techniques.
Credits: 3
Prerequisites: MUS 115 or THTR 140.
Notes: Same as THTR 340.

**MUS 119 - Functional Piano II**
Continued instruction in piano for music majors.
Credits: 1

**MUS 121 - Music Appreciation**
Introduction to the music literatures and cultures of Europe and the Americas, along with other world regions. The course emphasizes the development of listening, analytical, critical, and interpretative skills. Ability to read music is not required.
Credits: 3
Notes: Satisfies the Multicultural and Fine Arts Requirement.

**MUS 125 - History of Rock Music**
Esthetics and sociology of rock from its origins in rhythm and blues to the rise of Elvis Presley and rockabilly; Chuck Berry and teen-age rock; Bob Dylan and protest rock; the Beatles and Rolling Stones; psychedelic rock; and soul.
Credits: 3
Notes: Satisfies Fine Arts Requirement.

**MUS 127* - The World's Music: Live!**
Surveys the world's music. Develops better music listening skills by exposure to a wide variety of live performances. Popular, jazz, folk, classical, Indian, African, Native American, and Latin American musical styles explored. Recommended for
elementary education majors and anyone interested in musical expressions of world culture.  
Credits: 3  
Notes: Satisfies Fine Arts Requirement.

**MUS 129 - Sex and Violence in Opera**  
Opera appreciation course, focusing on the dramatic aspects of opera from Monteverdi to Andrew Lloyd Webber. Emphasis on sex and violence and its significance in the operatic medium.  
Credits: 3  
Notes: Satisfies Fine Arts Requirement.

**MUS 130 - Broadway's Greatest Composers**  
Original cast albums from Show Boat to A Chorus Line serves as the basis of analysis of composers from Jerome Kern, Rodgers & Hart, and Cole Porter to Stephen Sondheim, Marvin Hamlisch, and Andrew Lloyd Webber.  
Credits: 3

**MUS 131 - Introduction to Music Literature**  
Development of a listening repertoire that will serve as a basis for music history studies.  
Credits: 2

**MUS 133 - History of the Beatles**  
History of the Beatles from their beginning in Liverpool, England, to their unequaled world popularity. Features a mixture of videos, including the Beatles Anthology series, “A Hard Day’s Night,” “Help!,” “Yellow Submarine,” “Magical Mystery Tour,” and much more. Covers every important phase of the world’s most successful and beloved rock band.  
Credits: 3

**MUS 134* - Jazz Appreciation**  
Study of jazz literature for the layperson from the early 1900s to the present, with emphasis on differentiating the various styles of jazz playing.  
Credits: 3  
Notes: Satisfies the Fine Arts and Multicultural Requirements.

**MUS 135 - History of American Popular Music**  
The history of popular music in all its forms in the United States from 1840, progressing chronologically to the present day.  
Credits: 3

**MUS 137 - British Invasion - 60s Music**  
Examination of the British Invasion of the early 1960s taught from an ethnomusicological standpoint. Taught by text, lecture, and video. Examines thirty different British Invasion groups.  
Credits: 3

**MUS 139 - Introduction to Music Technology**  
Provides music and non-music majors with a basic understanding of how music and computers correlate. Sound/data management, multimedia capabilities, CD and DVD reproduction, music notation, MIDI, basic recording and editing.  
Credits: 3

**MUS 141A - Commercial Music Theory and Arranging 1**  
Introduction to commercial music theory and arranging. Study of notation, rhythm, scales, intervals, and chords with emphasis on music arranging. This course is designed for students working toward the Commercial Music Performance certificates. Others may take the course with instructor approval.  
Credits: 3

**MUS 141B - Commercial Music Theory and Arranging 2**  
Expanding your knowledge and application of commercial music theory and arranging. Intermediate study of notation, rhythm, scales, intervals, and chords with emphasis on music arranging. This course is designed for students working toward the Commercial Music Performance certificate 2. or, students that have successfully completed MUS 141A.  
Credits: 3  
Prerequisites: MUS 141A
MUS 143 - Diction for Singers I
Fundamentals of Italian, German, and French phonetics and diction as applied to singing.
Credits: 1
Prerequisites: MUSA 146.

MUS 144* - Diction for Singers II
Advanced fundamentals of Italian, German, and French phonetics and diction as applied to singing.
Credits: 1
Prerequisites: MUS 143.

MUS 167 - Piano Proficiency
A graduation requirement of all music majors covering all skills considered necessary for success in all music careers. Functional keyboard skills combined with the application of music theory principles at the piano.
Credits: 0

MUS 169 - World Percussion Techniques
Learn techniques associated with the art of playing world percussion. Specific ethnic instruments from the Middle East, Far East, Africa and South America are studied in context of historical, social and performance practices.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated to a maximum of ten credits.

MUS 181 - Business of Music
Survey about music merchandising, artistic management, record and publishing companies, artists’ unions, ASCAP and BMI, agents, record production, song writing and copyright registration. Includes how to make a demo tape, promote a concert, and choose a personal manager.
Credits: 2

MUS 191A - Reed Making for Oboe
Beginning and Intermediate Reed Making skills for oboe players.
Credits: 2
Prerequisites: Must be enrolled in undergraduate oboe lessons.
Notes: S/F grading only.
May be repeated to a maximum of 4 credits.

MUS 191B - Reed making for Double Reed Instruments (bassoon)
Applied basic to intermediate reed-making for double reed music majors.
Credits: 1
Corequisites: Must be enrolled in undergraduate oboe or bassoon applied numbers.
Notes: S/F grading only.
May be repeated to a maximum of 2 credits.

MUS 192A - Advanced Reed Making for Oboe
Advanced Reed Making for oboe players.
Credits: 2
Corequisites: Must be enrolled in undergraduate oboe lessons.
Prerequisites: C or higher in MUS 191A.
Notes: S/F grading only.
May be repeated to a maximum of 4 credits.

MUS 192B - Advanced Reed making for Double Reed Instruments (bassoon)
Applied basic to intermediate reed-making for double reed music majors.
Credits: 1
Corequisites: Must be enrolled in undergraduate oboe or bassoon applied numbers.
Notes: S/F grading only.
May be repeated to a maximum of two credits.
MUS 201 - Musicianship I
Basic study of diatonic harmony and voice leading, as well as the aural and sight-singing skills required for the understanding and practice of these subjects.
Credits: 3
Prerequisites: Having passed the theory placement test, having passed MUS 102, or having authorization from the School of Music

MUS 202 - Musicianship II
Study of aspects of intermediate tonal harmony and voice leading, as well as the aural and sight-singing skills required for the understanding and practice of these subjects.
Credits: 3
Prerequisites: MUS 201

MUS 202F - Basic Musicianship IIF
Sight-singing and Ear Training. Ear training and sight-singing, as related to the harmonic materials of MUS 202E.
Credits: 1

MUS 209 - Functional Piano III
Continued instruction in piano for music majors.
Credits: 1

MUS 210 - Functional Piano IV
Continued instruction in piano for music majors.
Credits: 1

MUS 213 - Fundamentals of Music Composition II
Continuation of Fundamentals of Music Composition I, including composition of longer pieces, and larger instrumental groups.
Credits: 2
Prerequisites: MUS 113
May be repeated to a maximum of four credits.

MUS 215 - Techniques of Songwriting
Practical course in composing pop music. Analysis of hit songs and discussion of songs written by the class. Each student composes ten melodies to given lyrics.
Credits: 3
Prerequisites: MUS 101, MUS 102

MUS 217 - Introduction to Film Scoring
Historical and philosophical basis for film scores.
Credits: 2

MUS 230 - Computer Music Technology II
Provides a more detailed look into the relationship between music production and computers. Topics include digital signal processing (DSP), software synthesis, Plug-In architectures, computer audio hardware and the essential components of the digital audio workstation (DAW).
Credits: 3
Prerequisites: MUS 139 and MUS 239.

MUS 231 - Recording Technology I
Concepts of sound for recording, including basics of sound wave propagation, microphones, formats for sound storage, mixers, etc. This is the entry level course for the recording program and is either recommended or required for every course offered. Special fee charged.
Credits: 3

MUS 232 - Recording Technology II
Intermediate course in multi-track recording techniques including discussions on session procedures, production techniques, tracking and overdubbing methods, and general equipment operation.
Credits: 3
Prerequisites: Consent of instructor.
Notes: Special fee charged.
MUS 235 - Finale TM: An Introduction
Introduction to computerized methods of music notation. Students use Finale tm to produce parts and scores according to professional standards in all fields of music.
Credits: 1
May be repeated to a maximum of two credits.

MUS 239 - Virtual Studio Technology
Explores the complete theory and application of hard disk recording systems, particularly Pro Tools, from setup to mastering. Students have hands-on experience while learning concepts and techniques for proper functioning of MIDI, digital audio, I/O, plug-ins, etc.
Credits: 3

MUS 251 - Jazz Fundamentals
Examination of jazz harmonic practices, including basic chord progressions and extensions, chord scales and substitutions, reharmonization and ear training exercises.
Credits: 2

MUS 252 - Jazz & Commercial Music Fundamentals
Examination of jazz & commercial harmonic practices, including chord progressions, extensions, and substitutions, scales, reharmonization, and ear training exercises.
Credits: 2
Prerequisites: MUS 251

MUS 257 - Jazz Keyboard
Beginning jazz piano course for music majors.
Credits: 2
Prerequisites: MUS 110

MUS 258 - Elementary Jazz and Commercial Improvisation
Study and application of the techniques involved in jazz & commercial improvisation as related to all styles of the jazz & commercial music idiom.
Credits: 2

MUS 259 - Introduction to Jazz Singing
Development of skills singing in the interpretive and improvisational jazz styles.
Credits: 1
May be repeated to a maximum of two credits.

MUS 271 - Introduction to Music Education
Introduction to the principles, philosophy, and trends of music education in the public schools. Preparatory experience for other professional courses in music education. Observation of 15 hours of music instruction at all levels required and participation in the university classroom.
Credits: 1
Prerequisites: Sophomore standing.

MUS 273 - Choral Conducting Lab
Rehearsal and performance laboratory for music education students.
Credits: 1
Notes: Required of every music education major for two semesters.
May be repeated to a maximum of two credits.

MUS 303 - Musicianship III
Study of advanced tonal and post-tonal music and the aural and sight-singing skills required for the understanding and practice of these subjects.
Prerequisites: MUS 202

MUS 304 - Musicianship IV
Study of aspects of advanced tonal and post-tonal harmony and voice leading, as well as the aural and sight-singing skills required for the understanding and practice of these subjects.
Credits: 3
Prerequisites: MUS 303

MUS 319 - Multimedia for the Professional
Production of digital multimedia, including assembly of DVD and CD projects for students representing their body of work, how to set up a website, streaming audio and video for the web, and more.
Credits: 3
Prerequisites: MUS 231 and MUS 239.  
May be repeated to a maximum of six credits.

**MUS 320 - Large Console Recording**
Learn the basics of a large, automated console, including operation, wiring, practicality, and maintenance. Students record several sessions of varying complexity and then compile their final mixes on the Euphonix CS3000 with full utilization of plug-ins, dynamics, and automation with recall.  
Credits: 3  
Prerequisites: MUS 231, MUS 232.  
May be repeated to a maximum of six credits.

**MUS 321 - Studio Recording III**
Follow-up to MUS 231 and 232 and involves students in the advanced operation of recording sessions. An in-depth look at digital mixers, with an introduction to the large console, plug-ins and mic setups. Students will record and mix their own sessions.  
Credits: 3  
Prerequisites: MUS 231 and MUS 232.  
May be repeated to a maximum of six credits.

**MUS 331 - Piano Literature I**
Survey of literature designed for the piano major. Includes music from Couperin through Liszt, focusing on J.S. Bach, Mozart, Haydn, Beethoven, Schubert, and Schumann. Study of early keyboard instruments, their properties, and playing techniques.  
Credits: 2  
Prerequisites: MUS 129.  
May be repeated to a maximum of two credits.

**MUS 332 - Piano Literature II**
Survey of literature designed for the piano major. Focuses on music of Chopin, Brahms, Bartok, Prokofiev, and avant-garde composers and their techniques.  
Credits: 2  
Prerequisites: MUS 331, junior status.

**MUS 335 - On Location Audio Recording**
The course will cover the selection, placement and setup of microphones and the procedure of recording in stereo, multi-track, binaural, and surround formats. Emphasis on the equipment used specifically for remote recording, including live bands, orchestra, and other on location venues.  
Credits: 3  
Prerequisites: MUS 231 and MUS 239.  
Notes: MUS 232 recommended prerequisite.  
May be repeated to a maximum of six credits.

**MUS 341 - Music History I**
Historical survey of significant musical artists and works from the Middle Ages to about 1750, studied in the context of pertinent compositional, performance, cultural, and societal issues.  
Credits: 3  
Prerequisites: Passing grade on the music history placement examination or successful completion of MUS 131.

**MUS 342 - Music History II**
Historical survey of significant musical artists and works from about 1750 to 1900, studied in the context of pertinent compositional, performance, cultural, and societal issues.  
Credits: 3  
Prerequisites: Passing grade on the music history placement examination or successful completion of MUS 131.  
Notes: Satisfies International Requirement.

**MUS 343 - Music History III**
Historical survey of significant musical artists and works from about 1900 to the present, studied in the context of pertinent compositional, performance, cultural, and societal issues.  
Credits: 3  
Prerequisites: Passing grade on the music history placement examination or successful completion of MUS 131.
MUS 345 - Jazz and Commercial Music History I
Survey of the history of jazz and commercial music from its origins through early jazz, the swing era and bebop.
Credits: 3
Prerequisites: MUS 131
Notes: Satisfies the Multicultural Requirement.

MUS 346 - Jazz & Commercial History II
Continuation of Jazz & Commercial History I from the bebop era to the present.
Credits: 3
Prerequisites: MUS 345

MUS 348 - Issues in American Music
Exploration of the evolution of American musical forms. Emphasis placed on understanding the various cultural and ethnic influences on music in America and how they fused to create distinctly American genres such as jazz, musical theater, American folk, pop, and aleatoric music.
Credits: 3
Prerequisites: MUS 131 and upper-division standing.
Notes: Satisfies the Multicultural Requirement.

MUS 350 - The Theory and Application of Microphones
This course will teach the fundamentals of microphone care, choice, placement and techniques for recording. It will also provide an in-depth look at the different types of microphones, their polar patterns and various characteristics. Other aspects such as self-noise, sensitivity and construction will also be covered.
Credits: 3
Prerequisites: MUS 231
Notes: May be repeated to a maximum of six credits.

MUS 351 - Jazz Vocal Styles I
Evolution of vocal jazz from 1920 through 1960. Combination of lectures and listening. Vocalists include: Louis Armstrong, Bessie Smith, Dinah Washington, Ella Fitzgerald, Sarah Vaughan and others.
Credits: 2
Prerequisites: MUS 143

MUS 352 - Jazz Vocal Styles II
Evolution of vocal jazz from 1960-present. Based on a combination of lectures and listening. Oral presentation and performance of a vocal transcription required. Vocalists include: Sheila Jordan, Carmen McRae, George Benson, Flora Purim, Bobby McFerrin, Take Six, and others.
Credits: 2
Prerequisites: MUS 351

MUS 357 - Jazz Form and Analysis
In-depth study of the artistic, theoretical, and stylistic techniques of jazz artists through the analysis of their transcribed solos.
Credits: 3

MUS 358 - Advanced Jazz and Commercial Music Improvisation
Continuation of MUS 258, with emphasis on advanced techniques and applications of jazz improvisation.
Credits: 2
Prerequisites: MUS 258

MUS 359 - Beginning Jazz and Commercial Arranging and Composition
Emphasis on techniques of arranging and composition for the contemporary jazz orchestra and commercial ensemble.
Credits: 2
Prerequisites: MUS 304

MUS 360 - Advanced Jazz Vocal Arranging and Composition
Beginning to intermediate arranging and composition techniques. Career preparation for vocal jazz performers. Topics include: basic tune writing, lead-sheet writing, vocal arrangement with piano trio, two-horn arrangement for vocal with trio.
MUS 362 - Beginning Conducting
Basic principles of conducting and score reading. Students must be members of one of the performance ensembles.
Credits: 2
Prerequisites: MUS 167.

MUS 365 - Beginning Orchestration
Intensive study of all orchestral and band instruments, their ranges and characteristics, and the techniques of scoring for small and large groups. Transcriptions from piano scores.
Credits: 2

MUS 372 - Advanced Instrumental Conducting
Develop and refine basic conducting skills for future instrumental conducting experiences through demonstration, discussion, and analysis of appropriate applications. Emphasis is placed on score realization, pedagogy, and rehearsal techniques.
Credits: 2
Prerequisites: MUS 362 and MUS 167.
May be repeated to a maximum of two credits.

MUS 373 - Advanced Choral Conducting
Develop and refine basic conducting skills for future choral conducting experiences through demonstration, discussion, and analysis of appropriate applications. Emphasis is placed on score realization, pedagogy, and rehearsal techniques.
Credits: 1
Prerequisites: MUS 273 and MUS 362.
May be repeated to a maximum of two credits.

MUS 374 - Introduction to Orff Schulwerk
Sequential and logical study of the process used when teaching the Orff approach, including imitation, exploration, and creation.
Credits: 2
Prerequisites: MUS 378

MUS 375 - Instrumental Methods
Instrumental techniques and problems of teaching music in junior and senior high schools.
Credits: 3
Corequisites: MUS 452C.
Prerequisites: MUS 271.

MUS 376 - Choral Methods
Vocal techniques and problems of teaching music in junior and senior high schools.
Credits: 3
Corequisites: MUS 452B.
Prerequisites: MUS 271.

MUS 378 - Teaching General Music
Techniques for teaching general music, to include presenting rote and note songs, teaching note reading, singing games, listening, rhythmic expression, movement, creativity and simple rhythm and pitched percussion instruments.
Credits: 3
Corequisites: MUS 452A
Prerequisites: MUS 271.

MUS 385 - String Class Methods
Techniques of teaching string instruments with emphasis on performance, pedagogy, and group instruction.
Credits: 2

MUS 385A - String Class Methods (High)
Techniques of teaching violin and viola, with emphasis on performance, pedagogy, and group instruction.
Credits: 1

MUS 385B - String Class Methods (Low)
Techniques of teaching cello and bass, with emphasis on performance, pedagogy, and group instruction.
Credits: 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 386</td>
<td>Percussion Class Methods</td>
<td>Techniques of teaching percussion instruments with emphasis on performance, pedagogy, and group instruction.</td>
<td>2</td>
</tr>
<tr>
<td>MUS 386A</td>
<td>Percussion Class Methods (Sn/KeyTimp/Aux)</td>
<td>Techniques of teaching percussion instruments (snare, keyboard, timpani, auxiliary), with emphasis on performance, pedagogy, and group instruction. Includes practical and written examination.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 386B</td>
<td>Percussion Class Methods (Lat/Mul/Mar/Set)</td>
<td>Techniques of teaching percussion instruments (Latin, multiple, marching, drum set), with emphasis on performance, pedagogy, and group instruction. Includes practical and written examination.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 387</td>
<td>Brass Class Methods</td>
<td>Techniques of teaching brass instruments with emphasis on performance, pedagogy, and group instruction.</td>
<td>2</td>
</tr>
<tr>
<td>MUS 387A</td>
<td>Brass Class Methods (High)</td>
<td>Techniques of teaching high brass instruments (trumpet, cornet, French horn), with emphasis on performance, pedagogy, and group instruction.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 387B</td>
<td>Brass Class Methods (Low)</td>
<td>Techniques of teaching low brass instruments (trombone, baritone/euphonium, tuba), with emphasis on performance, pedagogy, and group instruction.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 388</td>
<td>Woodwind Class Methods</td>
<td>Techniques of teaching woodwind instruments with emphasis on performance, pedagogy, and group instruction.</td>
<td>2</td>
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<tr>
<td>MUS 388A</td>
<td>Woodwind Class Methods (single reed/flute)</td>
<td>Techniques of teaching woodwind instruments (single reed/flute), with emphasis on performance, pedagogy, and group instruction.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 388B</td>
<td>Woodwind Class Methods (double reeds)</td>
<td>Techniques of teaching woodwind instruments (double reeds), with emphasis on performance, pedagogy, and group instruction.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 389</td>
<td>Rhythm Section Methods</td>
<td>Hands-on study of playing techniques and pedagogical approaches to instruments found within the rhythm section of a jazz band.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 391</td>
<td>Teaching of Marching Band Techniques</td>
<td>A practical and historical survey of marching band techniques and movements. Direct observation and student projects explore and reinforce necessary skills.</td>
<td>1</td>
</tr>
<tr>
<td>MUS 398</td>
<td>Junior Recital Music Education</td>
<td>Presentation of a half recital (minimum of 20 minutes actual playing time).</td>
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<tr>
<td>MUS 398</td>
<td>Junior Recital Music Education</td>
<td>Presentation of a half recital (minimum of 20 minutes actual playing time).</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prerequisites: Consent of music department faculty.</td>
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</tr>
</tbody>
</table>
MUS 399 - Junior Recital
Presentation of a half recital (minimum of 20 minutes actual playing time).
Credits: 0
Prerequisites: Consent of Music Department faculty.

MUS 401 - Counterpoint
Analysis of polyphonic practices including sixteenth-, eighteenth-, and twentieth-century styles.
Credits: 3
Prerequisites: A minimum grade of C- in MUS 202.

MUS 403A - Adv Mus-Adv Harmony
Adv Mus-Adv Harmony
Credits: 0

MUS 403B - Adv Mus-Sgt Ear Kyb
Adv Mus-Sgt Ear Kyb
Credits: 0

MUS 404E - Advanced Musicianship IIIE
Study of some of the most influential materials and techniques from the music of the twentieth and twenty-first centuries.
Credits: 3
Corequisites: MUS 404F.

MUS 404F - Advanced Musicianship IIIF
Advanced Sight-singing and Ear Training. Ear training and sight-singing related to the harmonic materials of MUS 404E.
Credits: 1
Corequisites: MUS 404E.

MUS 405 - Keyboard Harmony
Practical studies in music theory and ear training through keyboard exercises. Intermediate piano skills required.
Credits: 2
Prerequisites: MUS 202.

MUS 408* - Form and Analysis
Study of form (binary, ternary, rondo, sonata, concerto, fugue, open forms, etc.) as found in music from the Middle Ages to the most recent.
Credits: 3

MUS 414* - Choral Literature
Survey of choral literature and stylistic practices from the Renaissance through the twentieth century.
Credits: 2
Prerequisites: MUS 341.

MUS 415* - Instrumental Literature
A study of band and orchestra literature for public school ensembles, students will listen, study scores, and discuss instructional techniques and repertoire.
Credits: 2
Prerequisites: MUS 271.

MUS 417* - Vocal Pedagogy
Introduction to the basic problems involved in the teaching of voice. Study of tone production, breathing, diction, interpretation and style. Does not fulfill requirements for elementary or secondary school vocal methods.
Credits: 2
Prerequisites: MUS 144*

MUS 418* - Piano Pedagogy
Survey of beginning piano methods. Organization of a private studio: policies and marketing. Teaching observations and directed teaching individual and class setting required.
Credits: 2

MUS 419* - Instrumental Pedagogy
Study and practice in the use of concepts of instrumental music pedagogy. Students complete a series of assignments including reading, library research, observation, and studio teaching.
Credits: 1
MUS 426* - Vocal Literature
Survey of representative solo song literature, with emphasis on Italian, French, and German art songs.
Credits: 2
Prerequisites: MUS 144*

MUS 429* - Interpretation: German Lied
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.
Credits: 1
Prerequisites: MUS 143.
Notes: This course is crosslisted with MUS 629. Credit at the 600-level requires additional work.

MUS 430* - French Mélodie
Study of French mélodie 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.
Credits: 1
Prerequisites: MUS 143.
Notes: This course is crosslisted with MUS 630*. Credit at the 600-level requires additional work.

MUS 433* - Advanced HD and Surround Sound
Advanced Hard Disk recording techniques on the Pro Tools HD Systems, including concepts in Surround Sound. Topics include HUI control surface, multi-channel monitoring and mix-down, and software plug-ins. Geared toward audio engineering in the DVD/Audio, Film and Multimedia fields.
Credits: 3
Prerequisites: MUS 231 and 239.
May be repeated to a maximum of six credits.

MUS 434 - Audio Mastering
This 3 credit Course will teach the advanced techniques of Audio Mastering. Frequency Analysis and playback compatibility will be covered in detail along with the necessary tools used to create final masters for the various formats, in addition to a detailed study of Speakers and Headphones.
Credits: 3
Prerequisites: Minimum C-grade in both MUS 139 & MUS 239.

MUS 435 - Large Venue Sound Reproduction
The course will cover the use of large-scale systems for the purpose of live sound reproduction. Everything from designing the setup, to loading the truck, to troubleshooting and budget creation will be included.
Credits: 3
Prerequisites: Minimum C-grade in MUS 320.

MUS 439 - Advanced Studio Production
This course will look at the complete, modern recording session in detail, including mic placement and selection, effects processing, proper sound production, running a session, artist communication, and more.
Credits: 3
Prerequisites: Minimum C-grade in both MUS 239 & MUS 320.

MUS 444* - Entertainment and Fine Arts Law I
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.
Credits: 3
Notes: Same as AAD 421A, DAN 421A, THTR 421A, ART 429.

MUS 445* - Entertainment and Fine Arts Law II
Unique legal issues in the fields of live stage performance, theater, music, television and film, art gallery and museum relationships, including legal and social censorship, First Amendment protection, state and federal obscenity statutes, and contract problems.
Credits: 3
Prerequisites: MUS 444*, DAN 421A or THTR 421A.
Notes: (Same as ART, DAN, THTR 421B.)

MUS 446* - Competitive Drumline Techniques
Study of composition and formation for competitive Marching Drumline. Designed for marching band and marching percussion instructors. Includes classroom instruction and three hours practicum.
Credits: 1
Prerequisites: Consent of instructor.

MUS 451 - Ensemble Methods for Jazz and Commercial Music
Study and implementation of pedagogical techniques as they relate to the rehearsal and preparation of jazz and commercial music.
Credits: 1
Prerequisites: MUS 202

MUS 452A - Practicum I: General Music
Students participate in, assist, and direct music instruction in an assigned public school setting.
Credits: 2
Notes: Thirty hours of field experience and weekly participation are required.
May be repeated to a maximum of six credits.

MUS 452B - Practicum II: Choral/Vocal
Students participate in, assist, and direct music instruction in an assigned public school setting.
Credits: 2
Notes: Thirty hours of field experience and weekly participation are required.
May be repeated to a maximum of six credits.

MUS 452C - Practicum 3: Instrumental
Students participate in, assist, and direct music instruction in an assigned public school setting.
Credits: 2
Notes: Thirty hours of field experience and weekly participation are required.
May be repeated to a maximum of six credits.

MUS 453 - Music Skills for Classroom Teachers
Development of music skills useful in teaching and integrating music in the elementary grades.
Classroom and performance projects on recorder, Orff instruments and classroom percussion instruments. Methods, materials, and techniques of Jaques-Dalcroze, Orff-Schulwerk, and Kodaly studied for functional application.
Credits: 3

MUS 455* - Music Methods for Exceptional Children
Techniques for teaching and integrating music for exceptional children.
Credits: 3
Prerequisites: ESP 200.
Notes: Preparation of musical lessons and performance required.

MUS 457 - Jazz and Commercial Music Keyboard Seminar
Continuation of MUS 257 with emphasis on advanced techniques and a free exchange of ideas and concepts. May be repeated to a maximum of six credits.
Credits: 2
Prerequisites: MUS 257.

MUS 459 - Advanced Jazz and Commercial Arranging and Composition
Continuation of MUS 359, with emphasis on more advanced contemporary styles of jazz and commercial writing including the usage of variable time signatures and new harmonic possibilities.
Credits: 2
Prerequisites: Minimum C- grade in MUS 359.

MUS 460 - Music Technology Senior Program (Independent Study)
Course will include guidance, private study and projects tailored to the student's needs to complete a successful course of study in Music Technology fields. Student will complete a project to include topics studied in the minor area of their
degree plan and be integrated into their Music Technology Capstone project.
Credits: 3
Prerequisites: Minimum C- grade in MUS 139 & MUS 319
Notes: May be repeated to a maximum of six credits.

**MUS 465 - Advanced Orchestration**
Emphasis on techniques of orchestration for the full symphony orchestra. Analysis of symphonic scores from all periods.
Credits: 2
Prerequisites: MUS 365.

**MUS 469 - World Percussion Techniques**
Learn techniques associated with the art of playing world percussion. Specific ethnic instruments from the Middle East, Far East, Africa and South America are studied in context of historical, social and performance practices.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated to a maximum of ten credits.

**MUS 470 - Endangered Instrument Project**
Teaching Practicum
Supervised group and individual lesson teaching experience for bassoon, oboe, and horn majors or minors as part of the Endangered Instrument Project. Field experience weekly at one of nine Clark County “at-risk” middle schools and one seminar during the first week of class. Fulfills instrumental pedagogy requirement.
Credits: 1
Prerequisites: Upper Division study in either oboe, bassoon, or horn.

**MUS 480* - The Healthy Musician**
Auditory, vocal, mental and neuromusculoskeletal health will be studied, focusing on health preservation and injury prevention among musicians, including performance anxiety issues. Students will learn relevant anatomy and physiology, as well as the ergonomics of music. Somatic disciplines such as Body Mapping, Yoga, or Alexander Technique may also be explored.
Credits: 2
Prerequisites: At least one semester of applied lessons.
Notes: Lab component required.

**MUS 481E - Elementary Supervised Student Teaching: Music**
Enrolled in a degree-seeking program; minimum 2.75 cumulative GPA, fingerprinting; passing PPST scores.
Credits: 6-12

**MUS 481S - Secondary Supervised Student Teaching: Music**
Enrolled in a degree-seeking program; minimum 2.75 cumulative GPA, fingerprinting; passing PPST scores.
Credits: 6-12

**MUS 482 - Supervised Student Teaching Seminar: Music**
Music education teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide support for correlating professional education courses to actual classroom teaching experiences, reflective opportunities for self-assessment and systematic connections between university and school district supervisory personnel.
Credits: 2
Corequisites: EDEL 481.

**MUS 490 - Music Internship & Entrepreneurship**
Supervised projects in the music business, including forming, recording, promoting and performing with one's own band, website creation, product marketing, and music licensing.
Credits: 2
Prerequisites: MUS 181, MUS 139 or MUS 231 or MUS 239, Instructor Permission.
May be repeated to a maximum of eight credits.
MUS 491 - Special Topics: Music History
Study of topics in music history and literature. Topic to vary by semester.
Credits: 3
Prerequisites: MUS 341, and MUS 342 or MUS 343, and Consent of Instructor.
May be repeated to a maximum of six credits.

MUS 492 - Special Topics: Ethnomusicology
Study of topics in ethnomusicology and global music. Topics to vary by semester.
Credits: 3
Prerequisites: MUS 341, and MUS 342 or MUS 343, and Consent of instructor.
May be repeated to a maximum of six credits.

MUS 493 - Seminar: Special Topics
Explores a specific aspect of the study of music.
Credits: 1-3
May be repeated to a maximum of six credits.

MUS 495 - Independent Study
Open to junior and senior students majoring in music. Students must present proposals, including names of advisors and number of credits, no later than one week before registration. a) History/Literature b) Theory/Composition c) Music Education.
Credits: 1-3
Prerequisites: Consent of music department faculty.
May be repeated to a maximum of six credits.

MUS 499 - Senior Recital
Presentation of a full recital (minimum of 40 minutes actual playing time).
Credits: 0
Prerequisites: Consent of Music Department faculty.

MUSA 101 - Bass I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 102 - Bass II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 101.
Notes: Special fee required.

MUSA 103 - Bassoon I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 101.
Notes: Special fee required.

MUSA 104 - Bassoon II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 105 - Cello I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 105.
Notes: Special fee required.

MUSA 106 - Cello II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 105.
Notes: Special fee required.
MUSA 107 - Clarinet I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 108 - Clarinet II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 107.
Notes: Special fee required.

MUSA 111 - Euphonium I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 112 - Euphonium II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 111.
Notes: Special fee required.

MUSA 113 - Flute I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 114 - Flute II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 113.
Notes: Special fee required.

MUSA 115 - Guitar I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 116 - Guitar II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 115.
Notes: Special fee required.

MUSA 117 - Harp I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 118 - Harp II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 117.
Notes: Special fee required.

MUSA 121 - Horn I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.
MUSA 122 - Horn II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 121.
Notes: Special fee required.

MUSA 123 - Oboe I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 121.
Notes: Special fee required.

MUSA 124 - Oboe II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 123.
Notes: Special fee required.

MUSA 125 - Organ I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 123.
Notes: Special fee required.

MUSA 126 - Organ II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 125.
Notes: Special fee required.

MUSA 127 - Percussion I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 121.
Notes: Special fee required.

MUSA 128 - Percussion II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 127.
Notes: Special fee required.

MUSA 129 - Piano I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 123.
Notes: Special fee required.

MUSA 130 - Piano II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 125.
Notes: Special fee required.

MUSA 131 - Saxophone I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 125.
Notes: Special fee required.

MUSA 132 - Saxophone II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 127.
Notes: Special fee required.
MUSA 133 - MIDI for Music Technology
Introduces the student to concepts in MIDI. The evolution and theory of MIDI will be integrated with several projects using Hardware & Software synthesizers. Private instruction.
Credits: 4
May be repeated to a maximum of eight credits.

MUSA 135 - Trombone I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 136 - Trombone II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 135.
Notes: Special fee required.

MUSA 137 - Trumpet I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 138 - Trumpet II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 137.
Notes: Special fee required.

MUSA 139 - Tuba I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 140 - Tuba II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 139.
Notes: Special fee required.

MUSA 141 - Viola I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 142 - Viola II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 141.
Notes: Special fee required.

MUSA 143 - Violin I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 144 - Violin II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 143.
Notes: Special fee required.
MUSA 145 - Voice I
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: Music major.
Notes: Special fee required.

MUSA 146 - Voice II
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 145.
Notes: Special fee required.

MUSA 147 - Voice for Musical Theatre Majors
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 148 - Voice for Musical Theatre Majors II
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 151 - Bass for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee required. May be repeated for credit.

MUSA 152 - Bassoon for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee required. May be repeated for credit.

MUSA 153 - Cello for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee required.
May be repeated for credit.

MUSA 154 - Clarinet for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee required.
May be repeated for credit.

MUSA 156 - Euphonium for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 157 - Flute for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 158 - Guitar for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 159 - Harp for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special
MUSA 161 - Horn for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 162 - Oboe for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 163 - Organ for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 164 - Percussion for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 165 - Piano for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 166 - Saxophone for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 168 - Trombone for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 169 - Trumpet for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 170 - Tuba for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 171 - Viola for Non Major
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

MUSA 172 - Violin for Non-Majors
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special
instruction fee is required. May be repeated for credit.

**MUSA 174 - Voice for Musical Theatre Majors**
Private music study designed for the non-music major.
Credits: 1-2
Notes: No previous study required. Special instruction fee is required.
May be repeated for credit.

**MUSA 201 - Bass III**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 102.
Notes: Special fee required.

**MUSA 202 - Bass IV**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 201.
Notes: Special fee required.

**MUSA 203 - Bassoon III**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 104.
Notes: Special fee required.

**MUSA 204 - Bassoon IV**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 203.
Notes: Special fee required.

**MUSA 205 - Cello III**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 106.
Notes: Special fee required.

**MUSA 206 - Cello IV**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 205.
Notes: Special fee required.

**MUSA 207 - Clarinet III**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.
MUSA 108.

**MUSA 208 - Clarinet IV**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 207.
Notes: Special fee required.

**MUSA 211 - Euphonium III**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 112.
Notes: Special fee required.

**MUSA 212 - Euphonium IV**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4  
Prerequisites: MUSA 211.  
Notes: Special fee required.

**MUSA 213 - Flute III**  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 211.  
Notes: Special fee required.

**MUSA 214 - Flute IV**  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 211.  
Notes: Special fee required.

**MUSA 215 - Guitar III**  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 211.  
Notes: Special fee required.

**MUSA 216 - Guitar IV**  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 211.  
Notes: Special fee required.

**MUSA 217 - Harp III**  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 211.  
Notes: Special fee required.
Prerequisites: MUSA 126.
Notes: Special fee required.

MUSA 226 - Organ IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 225.
Notes: Special fee required.

MUSA 227 - Percussion III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 128.
Notes: Special fee required.

MUSA 228 - Percussion IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 229 - Piano III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 130.
Notes: Special fee required.

MUSA 230 - Piano IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 231 - Saxophone III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.

Prerequisites: MUSA 132.
Notes: Special fee required.

MUSA 232 - Saxophone IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 231.
Notes: Special fee required.

MUSA 233 - Advanced Concepts in Computer Music
Hard disk recording for the student who requires one-on-one instruction. Special projects will be the focus for an in-depth study on the integration of MIDI and digital audio recording, editing and sound design. Private instruction.
Credits: 4
May be repeated to a maximum of eight credits.

MUSA 235 - Trombone III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 236 - Trombone IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 235.
Notes: Special fee required.

MUSA 237 - Trumpet III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 138.
Notes: Special fee required.
MUSA 238 - Trumpet IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 237.
Notes: Special fee required.

MUSA 239 - Tuba III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 140.
Notes: Special fee required.

MUSA 240 - Tuba IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 239.
Notes: Special fee required.

MUSA 241 - Viola III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 142.
Notes: Special fee required.

MUSA 242 - Viola IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 241.
Notes: Special fee required.

MUSA 243 - Violin III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 144.
Notes: Special fee required.

MUSA 244 - Violin IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 243.
Notes: Special fee required.

MUSA 245 - Voice III
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 146.
Notes: Special fee required.

MUSA 246 - Voice IV
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 245.
Notes: Special fee required.

MUSA 247 - Voice for Musical Theatre Majors III
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 248 - Voice for Musical Theatre Majors IV
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 300 - Piano for Music Educators
To be taken after successful completion of Piano Proficiency. It is designed to develop the piano skills for music education students who will be
working in a K-12 Choral setting, through sight reading, harmonization, transposition, score reading, and challenging repertoire. Conducting from the piano is incorporated.
Credits: 1
Prerequisites: MUS 167.

MUSA 301 - Bass V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 202.
Notes: Special fee required.

MUSA 302 - Bass VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 301.
Notes: Special fee required.

MUSA 303 - Bassoon V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 204.
Notes: Special fee required.

MUSA 304 - Bassoon VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 303.
Notes: Special fee required.

MUSA 305 - Cello V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 306.
Notes: Special fee required.

MUSA 306 - Cello VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 305.
Notes: Special fee required.

MUSA 307 - Clarinet V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 208.
Notes: Special fee required.

MUSA 308 - Clarinet VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 307.
Notes: Special fee required.

MUSA 311 - Euphonium- V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 212.
Notes: Special fee required.

MUSA 312 - Euphonium VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 311.
Notes: Special fee required.
MUSA 313 - Flute V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 214.
Notes: Special fee required.

MUSA 314 - Flute VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 313.
Notes: Special fee required.

MUSA 315 - Guitar V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 216.
Notes: Special fee required.

MUSA 316 - Guitar VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 315.
Notes: Special fee required.

MUSA 317 - Harp V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 218.
Notes: Special fee required.

MUSA 318 - Harp VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4

MUSA 319 - Horn V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 222.
Notes: Special fee required.

MUSA 320 - Horn VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 320.
Notes: Special fee required.

MUSA 321 - Oboe V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 224.
Notes: Special fee required.

MUSA 322 - Oboe VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 322.
Notes: Special fee required.

MUSA 323 - Organ V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 226.
Notes: Special fee required.
MUSA 326 - Organ VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 325.
Notes: Special fee required.

MUSA 327 - Percussion V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 228.
Notes: Special fee required.

MUSA 328 - Percussion VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 327.
Notes: Special fee required.

MUSA 329 - Piano V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 230.
Notes: Special fee required.

MUSA 330 - Piano VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 329.
Notes: Special fee required.

MUSA 331 - Saxophone V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 331.
Notes: Special fee required.

MUSA 332 - Saxophone VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 331.
Notes: Special fee required.

MUSA 335 - Trombone V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 236.
Notes: Special fee required.

MUSA 336 - Trombone VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 335.
Notes: Special fee required.

MUSA 337 - Trumpet V
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 238.
Notes: Special fee required.

MUSA 338 - Trumpet VI
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 337.
Notes: Special fee required.
MUSA 339 - Tuba V  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 240.  
Notes: Special fee required.

MUSA 340 - Tuba VI  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 339.  
Notes: Special fee required.

MUSA 341 - Viola V  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 242.  
Notes: Special fee required.

MUSA 342 - Viola VI  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 341.  
Notes: Special fee required.

MUSA 343 - Violin V  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 244.  
Notes: Special fee required.

MUSA 344 - Violin VI  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 343.  
Notes: Special fee required.

MUSA 345 - Voice V  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 246.  
Notes: Special fee required.

MUSA 346 - Voice VI  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 345.  
Notes: Special fee required.

MUSA 347 - Voice for Musical Theatre Major  
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Notes: Special fee required.

MUSA 348 - Voice for Musical Theatre Majors VI  
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 248.  
Notes: Special fee required.

MUSA 401 - Bass VII  
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.  
Credits: 2-4  
Prerequisites: MUSA 302.  
Notes: Special fee required.

MUSA 402 - Bass VIII  
Applied music for the music major. All students attend a repertory class each week in addition to
the lesson.
Credits: 2-4
Prerequisites: MUSA 401.
Notes: Special fee required.

**MUSA 403 - Bassoon VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 304.
Notes: Special fee required.

**MUSA 404 - Bassoon VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 403.
Notes: Special fee required.

**MUSA 405 - Cello VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 306.
Notes: Special fee required.

**MUSA 406 - Cello VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 405.
Notes: Special fee required.

**MUSA 407 - Clarinet VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 308.
Notes: Special fee required.

**MUSA 408 - Clarinet VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 407.
Notes: Special fee required.

**MUSA 411 - Euphonium VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 312.
Notes: Special fee required.

**MUSA 412 - Euphonium VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 411.
Notes: Special fee required.

**MUSA 413 - Flute VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 314.
Notes: Special fee required.

**MUSA 414 - Flute VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 413.
Notes: Special fee required.

**MUSA 415 - Guitar VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 316.
Notes: Special fee required.

**MUSA 416 - Guitar VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 415.
Notes: Special fee required.

**MUSA 417 - Harp VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 318.
Notes: Special fee required.

**MUSA 418 - Harp VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 417.
Notes: Special fee required.

**MUSA 421 - Horn VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 322.
Notes: Special fee required.

**MUSA 422 - Horn VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 421.
Notes: Special fee required.

**MUSA 423 - Oboe VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 324.
Notes: Special fee required.

**MUSA 424 - Oboe VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 423.
Notes: Special fee required.

**MUSA 425 - Organ VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 326.
Notes: Special fee required.

**MUSA 426 - Organ VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 425.
Notes: Special fee required.

**MUSA 427 - Percussion VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 328.
Notes: Special fee required.

**MUSA 428 - Percussion VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 427.
Notes: Special fee required.

**MUSA 429 - Piano VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 330.
Notes: Special fee required.

**MUSA 430 - Piano VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 429.
Notes: Special fee required.

**MUSA 431 - Saxophone VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 332.
Notes: Special fee required.

**MUSA 432 - Saxophone VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 431.
Notes: Special fee required.

**MUSA 435 - Trombone VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 336.
Notes: Special fee required.

**MUSA 436 - Trombone VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 435.
Notes: Special fee required.

**MUSA 437 - Trumpet VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 338.
Notes: Special fee required.

**MUSA 438 - Trumpet VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 437.
Notes: Special fee required.

**MUSA 439 - Tuba VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 340.

**MUSA 440 - Tuba VIII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 439.
Notes: Special fee required.

**MUSA 441 - Viola VII**
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
MUSA 442 - Viola VIII
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 442.
Notes: Special fee required.

MUSA 443 - Violin VII
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 443.
Notes: Special fee required.

MUSA 444 - Violin VIII
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 443.
Notes: Special fee required.

MUSA 445 - Voice VII
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 346.
Notes: Special fee required.

MUSA 446 - Voice VIII
Applied music for the music major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Prerequisites: MUSA 445.
Notes: Special fee required.

MUSA 447 - Voice for Musical Theatre Majors VII
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 448 - Voice for Musical Theatre Majors VIII
Applied music for the theater major. All students attend a repertory class each week in addition to the lesson.
Credits: 2-4
Notes: Special fee required.

MUSA 451 - Private Composition
Individual instruction covering basic and advanced techniques in music composition for different instrumental media.
Credits: 2-4
Prerequisites: Students’ portfolio of compositions and piano competency skills must fulfill the minimum requirements as determined by the composition faculty.
May be repeated for credit.

MUSA 452 - Private Orchestration
Offerings for individual instruction in Orchestration.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSA 453 - Private Jazz and Commercial Arranging and Composition
Offerings for individual instruction in Jazz and Commercial Arranging and Composition.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSA 454 - Private Counterpoint
Offerings for individual instruction in Counterpoint.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.
MUSA 455 - Private Harmony
Offerings for individual instruction in Harmony.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSA 456 - Private Form and Analysis
Offerings for individual instruction in Form and Analysis.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSA 457 - Private Conducting: Choral
Offerings for individual instruction on Choral Conducting.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSA 458 - Private Conducting: Instrumental
Offerings for individual instruction on Instrumental Conducting.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSA 459 - Private Music History
Offerings for individual instruction in Music History.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSA 461 - Private Sight-Singing and Ear Training
Offerings for individual instruction in Sight-Singing and Ear Training.
Credits: 2-4
Prerequisites: Consent of instructor.
May be repeated for credit.

MUSE 103 - Chamber Chorale
Advanced chamber ensemble with emphasis on a cappella literature of all periods. Required participation in scheduled performances.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 104 - Opera Workshop
Laboratory course devoted to the performance of operatic excerpts and short operas.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for a maximum of six credits for each course.

MUSE 105 - Women's Chorus
Study and performance of sacred and secular choral music for female voices. Required participation in scheduled performances. Open to all members of the university community.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 106 - Varsity Men's Glee Club
Study and performance of sacred and secular choral music for male voices. Required participation in scheduled performances. Open to all members of the university community.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 107 - Master Chorale
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.
MUSE 108 - Concert Singers
Concert choir that performs sacred and secular choral music of many styles, including a cappella literature. Required participation in scheduled performances.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 113 - Wind Orchestra
Emphasis on wind and percussion literature from all historical periods. Required participation in scheduled appearances for various events on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for a maximum of eight credits.

MUSE 115 - Marching Band
Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Designed primarily to perform at football games.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 116 - Pep Band
Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Ensemble designed primarily to perform at basketball games.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 118 - Community Concert Band
Open to all university students with previous band experience. Required participation in scheduled appearances for various events on and off campus.
Credits: 1

MUSE 119 - Brass Band
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 120 - Symphonic Winds
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 appearances for various events on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 121 - Symphony Orchestra
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 122 - Chamber Orchestra
Small orchestral ensemble with an emphasis on developing chamber music skills and rehearsal techniques. Repertoire ranges from the early Baroque to the present day.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for a maximum of eight credits.
MUSE 124 - New Horizons Band
Rehearsal and study of wind and percussion literature from all historical periods for members of the university and community. May include scheduled appearances on and off campus.
Credites: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 125 - Civic Orchestra
An introduction to the modern symphony orchestra with an emphasis upon the learning and enjoyment of music, musical comprehension and appreciation. The ensemble performs regularly throughout the semester and is open to anyone with the desire to play an instrument within the orchestra idioms. Standard orchestral repertoire will be covered.
Credites: 1
May be repeated for credit.

MUSE 131 - Jazz Ensemble
Experience in large ensemble performance in the jazz idiom. Required participation in scheduled appearances both on and off campus, including festivals and out-of-town tours. Open to all university students by audition only.
Credites: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 132 - Introduction to Jazz Combo
Small jazz combo with an emphasis on developing essential repertoire and rehearsal techniques. Performances are required throughout the semester. Students will prepare during weekly scheduled combo rehearsals.
Credites: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 133 - Jazz Combo
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.
Credites: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 134 - Jazz Guitar Ensemble
Jazz Guitar Ensemble. Exposes guitar students to a broad 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.
Credites: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 135 - Jazz Vocal Ensemble
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.
Credites: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 136 - Contemporary Jazz Ensemble
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.
Credites: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 137 - Jazz Latin Ensemble
Exposes the students to performance with emphasis on essential stylistic interpretations associated with Latin jazz repertoire.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

**MUSE 138 - Studio Combo**
Studio Combo experience including the study of appropriate repertoire. Preparation for performances will be done in weekly scheduled combo rehearsals. Rehearsals may run in conjunction with various studio recording classes.
Credits: 1
Prerequisites: Consent of instructor.
Notes: May be repeated to a maximum of 8 credits

**MUSE 141 - Woodwind Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 143 - Flute Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 144 - Clarinet Choir**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 145 - Saxophone Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 146 - Brass Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent. May be repeated a maximum of eight times.

**MUSE 151 - String Chamber Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent. May be repeated a maximum of eight times.

**MUSE 153 - Classical Guitar Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 161 - Percussion Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent. May be repeated a maximum of eight times.

May be repeated a maximum of eight times.
**MUSE 162 - Marimba Band**  
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated a maximum of eight times.

**MUSE 163 - African Ensemble**  
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated to a maximum of eight times.

**MUSE 164 - Percussion and Dance**  
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.  
Credits: 1  
Prerequisites: Successful audition or instructor consent. May be repeated a maximum of eight times.

**MUSE 165 - Steel Drum Band**  
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.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated to a maximum of ten credits.

**MUSE 167 - World Percussion Ensemble**  
Students rehearse and perform world music for various percussion instrument combinations. Performances may take place on and off campus.  
Credits: 1  
Prerequisites: Consent of instructor.

**MUSE 171 - Piano Ensemble**  
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated a maximum of eight times.

**MUSE 172 - Accompanying**  
Develops skills needed in vocal and instrumental accompanying. Fulfills 1 credit of ensemble requirement for piano majors.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated.

**MUSE 173 - Piano Sightreading Ensemble**  
Ensemble for piano majors or minors. Provides sightreading and ensemble experience for pianists.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated for credit.

**MUSE 190 - Special Ensemble**  
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated a maximum of eight times.

**MUSE 193 - Special Vocal Ensemble**  
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.  
Credits: 1  
Prerequisites: Successful audition or instructor consent.  
May be repeated a maximum of eight times.
MUSE 377 - Orff Ensemble
Analyzation 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.
Credits: 1
Prerequisites: MUS 378.

MUSE 403 - Chamber Chorale
Advanced chamber ensemble with emphasis on a cappella literature of all periods. Required participation in scheduled performances.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 404 - Opera Workshop
Laboratory course devoted to the performance of operatic excerpts and short operas.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for a maximum of six credits for each course.

MUSE 405 - Women’s Chorus
Study and performance of sacred and secular choral music for female voices. Required participation in scheduled performances. Open to all members of the university community.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 406 - Varsity Men’s Glee Club
Study and performance of sacred and secular choral music for male voices. Required participation in scheduled performances. Open to all members of the university community.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 407 - Master Chorale
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 408 - Concert Singers
Concert choir that performs sacred and secular choral music of many styles, including a cappella literature. Required participation in scheduled performances.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 413 - Wind Orchestra
Emphasis on wind and percussion literature from all historical periods. Required participation in scheduled appearances for various events on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for a maximum of eight credits.

MUSE 415 - Marching Band
Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Designed primarily to perform at football games.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.
MUSE 416 - Pep Band
Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Ensemble designed primarily to perform at basketball games. Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 418 - Community Concert Band
Open to all university students with previous band experience. Required participation in scheduled appearances for various events on and off campus. Credits: 1

MUSE 419 - Brass Band
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. Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 420 - Symphonic Winds
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 appearances for various events on and off campus. Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 421 - Symphony Orchestra
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. Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 422 - Chamber Orchestra
Small orchestral ensemble with an emphasis on developing chamber music skills and rehearsal techniques. Repertoire ranges from the early Baroque to the present day. Credits: 1
Prerequisites: Successful audition or instructor consent.
Notes: This course is crosslisted with MUSE 622. Credit at the 600-level requires additional work. May be repeated for a maximum of eight credits.

MUSE 424 - New Horizons Band
Rehearsal and study of wind and percussion literature from all historical periods for members of the university and community. May include scheduled appearances on and off campus. Credits: 1

MUSE 431 - Jazz Ensemble
Experience in large ensemble performance in the jazz idiom. Required participation in scheduled appearances both on and off campus, including festivals and out-of-town tours. Open to all university students by audition only. Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

MUSE 433 - Jazz Combo
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.

**MUSE 434 - Jazz Guitar Ensemble**
Jazz Guitar Ensemble. Exposes guitar students to a broad 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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

**MUSE 435 - Jazz Vocal Ensemble**
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

**MUSE 436 - Contemporary Jazz Ensemble**
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.

**MUSE 437 - Jazz Latin Ensemble**
Exposes the students to performance with emphasis on essential stylistic interpretations associated with Latin jazz repertoire.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for unlimited credit.

**MUSE 441 - Woodwind Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 443 - Flute Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
Notes: This course is crosslisted with MUSE 643. Credit at the 600-level requires additional work.
May be repeated a maximum of eight times.

**MUSE 444 - Clarinet Choir**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 445 - Saxophone Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

**MUSE 446 - Brass Ensemble**
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
MUSE 451 - String Chamber Ensemble
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

MUSE 453 - Guitar Ensemble
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

MUSE 461 - Percussion Ensemble
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

MUSE 462 - Marimba Band
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

MUSE 463 - African Ensemble
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

MUSE 464 - Percussion and Dance
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
Notes: This course is crosslisted with MUSE 664. Credit at the 600-level requires additional work. May be repeated a maximum of eight times.

MUSE 465 - Steel Drum Band
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated to a maximum of ten credits.

MUSE 471 - Piano Ensemble
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight time.

MUSE 472 - Accompanying
Develops skills needed in vocal and instrumental accompanying. Fulfills 1 credit of ensemble requirement for piano majors.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated.
MUSE 480 - Opera Production
Involvement as a performer or production assistant in an opera/operetta production.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated to a maximum of six credits.

MUSE 490 - Special Ensemble
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

MUSE 493 - Special Vocal Ensemble
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated a maximum of eight times.

MUSE 494 - Collegium
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
Credits: 1
Prerequisites: Successful audition or instructor consent.

MUSE 495 - Nextet
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.
Credits: 1
Prerequisites: Successful audition or instructor consent.
May be repeated for credit.
Department of Theatre

Purpose and Focus
The Bachelor of Arts degree allows the student to pursue theatre as a major in the context of a liberal arts curriculum. The degree seeks the integration of the theory and practice of the theatre arts. Students explore theatre as an intellectual discipline and a performing and visual art as well as a technique and a craft. The Department of Theatre also provides cultural enrichment for the university and community through the university theatre season.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Majors
Theatre — Bachelor of Arts

Areas of Concentration
Theatre Bachelor of Arts: Design/Technology
Offers specialized training in costume, lighting, scenic design, and theatre technology for the student pursuing a career as a professional designer/technician or conservatory training beyond the baccalaureate level.

Theatre Bachelor of Arts: Stage and Screen Acting
Offers specialized acting, camera, voice, movement, dance and singing training for students pursuing a career as a professional actor or conservatory training beyond the baccalaureate level.

Theatre Bachelor of Arts: Theatre Studies
Offers a generalized study in all aspects of the theatre for students seeking a professional career in teaching and/or continued practical, artistic, or scholarly study beyond the baccalaureate level.

Admission to the Major
- Minimum GPA: 2.00
- Students in Theatre must declare an area of concentration in stage and screen acting, design/technology, or theatre studies.
- Students in Theatre changing an area of concentration must complete all required courses in their new concentration.

Transfer Policies
Articulation of transfer credit will be determined by the department chairperson or the undergraduate coordinator. No more than 50 percent of the course work required for a Bachelor of Arts degree in theatre may be transferred. Articulation of transfer credit in the selected area of concentration must be made in consultation with faculty of the respective area of concentration.

Department Policies
All Theatre Majors
- Students must maintain a minimum 2.70 (B-) GPA.
- Students must maintain continuing enrollment by registering each term after matriculation (summer excluded) for at least three credits of work related to meeting specific degree requirements.
- Students must be available for participation in productions that are an official part of the university theatre season.
- Students must meet with an academic advisor in advance of registration for the approval of a class schedule and assessment of academic progress.
- Students in Theatre must declare an area of concentration in stage and screen acting, design/technology, or theatre studies.

Stage and Screen Acting (SSA) Concentration
- Admission to the concentration is by audition only. Contact the Department of
Theatre for information about dates and audition schedules.

- Continuation in the concentration is determined by the quality of class work, performance projects, and the end of semester evaluations. Failure to be placed in the appropriate course work toward the completion of the degree requirements may result in suspension from the concentration. In some cases, students may be placed on probationary status for deficiencies in particular areas of study (voice, movement, acting, style, language). Students placed on probation may be required to successfully repeat specific performance courses or complete additional courses specified by the SSA faculty. Repeatable technique courses are a common practice in the technical training of the actor.

- The SSA is a pre-professional program in which all courses must be taken in a very specific sequential order. Each student must enroll in courses prescribed by the SSA Faculty. Failure to do so may result in delayed graduation or separation from the concentration.

- Students at the Junior and Senior level must audition for (and be available for participation in) all productions that are an official part of the university theatre season. Performance work in university theatre productions is an extension of the classroom and a practical laboratory for all SSA concentration students. Students unable to audition must submit in advance a written request for a waiver to the head of SSA. Participation in production includes attendance at rehearsals, performances, costume and photo calls, and strike.

- Students must submit a written request to the head of SSA for prior approval of any performance opportunity which is not an official part of the university theatre season. This includes but is not limited to ancillary class projects, community and professional theatre.

**Design/Technology Concentration**

- Students must meet all obligations and requirements with respect to design/technology assignments in major and studio productions that are an official part of the university theatre season as well as class scenes and ancillary productions. This includes attendance at strike, photo calls, production meetings and any and all obligations and requirements articulated by design/technology faculty.

- Students must participate in the semester's end portfolio review each semester until the completion of the degree.

- Students must enroll in and successfully complete all courses specified by the design/technology faculty at the semester's end portfolio review.

- Continuation is determined by a semester's end portfolio review. In some cases, students may be placed on probationary status for deficiencies in particular areas of study. Students placed on probation may be required to successfully repeat specific design/technology courses or complete additional courses specified by the design/technology faculty.

**Probation/Suspension**

Failure to comply with department policies may result in probation or suspension. Students placed on probation may be subject to the following sanctions: be given a semester's grace period to improve GPA to comply with concentration or department policies; and/or achieve satisfactory academic progress, be required to repeat or complete additional remedial course work, be denied enrollment in course work in their area of
concentration and/or the Department of Theatre, and/or be denied participation in production projects sponsored by the Department of Theatre. Students placed on suspension will be separated from their area of concentration and/or the Department of Theatre.

**Advising**

Every student majoring in theatre is expected to have a schedule approved each term, in advance of registration, by an academic advisor. Any subsequent change in schedule requires an additional endorsement. Failure to seek academic advising may result in delays to anticipated date of graduation.

**Scholarships**

The Department of Theatre offers scholarship and grant-in-aid awards to students who receive above-average grades and demonstrate scholastic and creative excellence in the theatre. Scholarship applications and audition information are available through the department office. Additionally, interested students are encouraged to apply for financial awards through the university Office of Student Financial Services.

**Theatre Major (BA)**

Theatre Major - Bachelor of Arts (BA)


Please see advising information at the UNLV College of Fine Arts Advising Center at www.unlv.edu/finearts/advising.

**Accreditation**

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Learning Objectives**

1. Communication Techniques - visual communication techniques
2. Production Skills - responsibility for a production aspect
3. Academic Skills - writing, research, discussion
4. Professional preparation - self marketing as is timely and appropriate in their program.
5. The ability to study and analyze plays; an understanding of genre, style, and direction.
6. An understanding of the contextual importance of theatre in the humanities, in the fine arts and part of the human experience.
7. Research - Gather, interpret and communicate historic, interpretive, and conceptual ideas within the theatrical framework.
8. Collaboration - Build verbal and written communication skills with all members of the collaborative design and production team.

**University Graduation Requirements**

- Please see Graduation Policies for complete information.

**Theatre Degree Requirements**

- Total: 120 Credits

**General Education Requirements**

- Subtotal: 37-40 Credits

**First-Year Seminar - Credits:** 2-3

**English Composition - Credits:** 6

- ENG 101 - Composition I
• ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

• HIST 100 - Historical Issues and Contemporary Society
  or
• PSC 101 - Introduction to American Politics

Mathematics - Credits: 3

Distribution Requirements - Credits: 19

Please see Distribution Requirements for more information.

• Humanities and Fine Arts:
  o Automatically satisfied by Major requirements

• Social Science: 9 credits
  o One course each from three different fields

• Life and Physical Sciences and Analytical Thinking: 10 credits
  o Two courses from Life and Physical Science; at least one course must have a lab
  o Analytical Thinking - 3 credits
    ▪ PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Pre-Major Requirements - BA in Theatre - Subtotal: 12 Credits

These classes, as well as classes designated with asterisk (*) above, must be completed before continuing in the preferred concentration.

• THTR 199 Play Structure and Analysis I
• THTR 200 Introduction to Design/Technology
• THTR 230 Voice and Movement for the Actor I
• THTR 231 Acting: Basic Technique

Major Requirements - BA in Theatre - Design/Technology Concentration - Subtotal: 75 Credits

Theatre - Credits: 42

• THTR 199 - Play Structure and Analysis I
• THTR 200 - Introduction to Design/Technology
• THTR 201 - Costume Design I
• THTR 202 - Scenic Design I
• THTR 203 - Lighting Design I
• THTR 204 - Theatre Technology I
• THTR 230 - Voice and Movement for the Actor I
• THTR 231 - Acting: Basic Technique
• THTR 380 - Stage Management
• THTR 401 - Costume Design II
• THTR 402 - Scenic Design II
• THTR 403 - Lighting Design II
• THTR 404 - Theatre Technology II
• THTR 480 - Stage Management
• THTR 481 - Theatre History I
• THTR 482 - Theatre History II

Design/Technology - Credits: 9

Select three of the following or repeat any combination:

• THTR 401 - Costume Design II
• THTR 402 - Scenic Design II
• THTR 403 - Lighting Design II
• THTR 404 - Theatre Technology II

Seminar - Credits: 6

Select two of the following or repeat any combination:

• THTR 405 - Career Development and Portfolio Preparation for Theatre
• THTR 483 - Research in Period Styles and Aesthetics for Stage and Screen
• THTR 484 - Professional Perspectives
Dramatic Literature - Credits: 6
Select Two:
- ENG 434A - Shakespeare: Tragedies
- ENG 434B - Shakespeare: Comedies and Histories
- ENG 463A - Classical Drama in Translation
- ENG 464A - English Drama to 1642
- ENG 465B - Restoration and Eighteenth-Century Drama
- ENG 466A - Nineteenth-Century Drama
- ENG 467A - Modern British Drama
- ENG 467B - Modern American Drama
- THTR 413 - Drama of Today
- THTR 424 - Gay Plays
- THTR 426 - Women Playwrights
- THTR 428 - Black Drama and Performance
- THTR 461 Play Structure and Analysis II
- THTR 462 - Dramaturgy

Fine Arts - Credits: 6
Select Two:
- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III
- MUS 121 - Music Appreciation

Interdisciplinary - Credits: 6
Select Two:
- ART 101 - Drawing I
- ART 102 - Drawing II
- ART 107 - Design Fundamentals I
- ART 201 - Life Drawing I
- ART 402 - Life Drawing Workshop
- CFA 103 - Survey of Dance
- FILM 110 - Language of Film
- MUS 231 - Recording Technology I
- THTR 421A - Entertainment and Fine Arts Law I
- THTR 421B - Entertainment and Fine Arts Law II

Electives - Credits: 5-8

Major Requirements - BA in Theatre - Stage and Screen Acting Concentration - Subtotal: 78 Credits

Theatre - Credits: 54
- THTR 199 - Play Structure and Analysis I
- THTR 200 - Introduction to Design/Technology
- THTR 230 - Voice and Movement for the Actor I
- THTR 231 - Acting: Basic Technique
- THTR 240 - Acting: Camera
- THTR 330 - Voice and Movement for the Actor II
- THTR 331 - Acting Studio II: Technique
- THTR 335 - Speech for the Actor I
- THTR 380 - Stage Management
- THTR 430 - Voice and Movement for the Actor III
- THTR 431 - Acting: Scene Study
- THTR 435 - Speech for the Actor II
- THTR 454 - Directing Laboratory
- THTR 467 - Acting: Audition
- THTR 481 - Theatre History I
- THTR 482 - Theatre History II
- THTR 493 - Acting as a Profession

Select from the following - Credits: 6
- DAN 108 - Pilates I
- DAN 160 - Hip Hop I
- DAN 132 - Jazz Dance I
- DAN 135 - Ballet I
- DAN 138 - Modern Dance I
- DAN 144 - Tap Dance (Beginning)
- MUSA 174 - Voice for Musical Theatre Majors
- MUSA 248 - Voice for Musical Theatre Majors IV
- MUSA 348 - Voice for Musical Theatre Majors VI

Design/Technology - Credits: 3
Select one of the following:
- THTR 201 - Costume Design I
- THTR 202 - Scenic Design I
- THTR 203 - Lighting Design I
- THTR 204 - Theatre Technology I

Select one of the following options:

Option A (Stage/Screen) - Credits: 18
- THTR 440 - Voice and Movement for the Actor IV
- THTR 441 - Cold Reading for the Actor II

Two of the following:
- THTR 468 - Acting: Shakespeare
- THTR 469 - Acting: Comedy of Manners
- THTR 470 - Acting: Modern Styles
- THTR 471 - Acting: Musical Theatre
Two of the following:

- THTR 342 - Acting: Daytime Drama (Soaps)
- THTR 343 - Acting: Commercials
- THTR 344 - Acting: Situation Comedy
- THTR 346 - Acting: Film

Option B (Stage) - Credits: 18
THTR 440, 468, 469, 470, 471 (15 credits)
One of the following: THTR 342, 343, 344, 346 (3 credits)

Option C (Screen) - Credits: 18
THTR 342, 343, 344, 346, 441 (15 credits)
One of the following: THTR 468, 469, 470, 471 (3 credits)

Electives - Credits: 5-7

Major Requirements - BA in Theatre - Theatre Studies
Concentration - Subtotal: 51 Credits

Theatre - Credits: 36

- THTR 199 - Play Structure and Analysis I
- THTR 200 - Introduction to Design/Technology
- THTR 201 - Costume Design I
- THTR 202 - Scenic Design I
- THTR 203 - Lighting Design I
- THTR 204 - Theatre Technology I
- THTR 230 - Voice and Movement for the Actor I
- THTR 231 - Acting: Basic Technique
- THTR 380 - Stage Management
- THTR 454 - Directing Laboratory
- THTR 481 - Theatre History I
- THTR 482 - Theatre History II

Performance - Credits: 9

- THTR 330 - Voice and Movement for the Actor II
- THTR 331 - Acting Studio II: Technique and one of the following:
  - THTR 240 - Acting: Camera
  - THTR 243 - Staging for the Actor
  - THTR 245 - Basic Stage Combat
  - THTR 247 - Beginning Improvisation
  - THTR 306 - Advanced Acting
  - THTR 445 - Stage Combat
  - THTR 447 - Acting: Improvisation

- THTR 471 - Acting: Musical Theatre

Design/Technology - Credits: 3
Select one of the following:

- THTR 401 - Costume Design II
- THTR 402 - Scenic Design II
- THTR 403 - Lighting Design II
- THTR 404 - Theatre Technology II
  or
- THTR 480 - Stage Management II

Fine Arts - Credits: 6

- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III
- MUS 121 - Music Appreciation

Theatre Electives - Credits: 9

Dramatic Literature - Credits: 6
Select Two:

- ENG 434A - Shakespeare: Tragedies
- ENG 434B - Shakespeare: Comedies and Histories
- ENG 463A - Classical Drama in Translation
- ENG 464A - English Drama to 1642
- ENG 465B - Restoration and Eighteenth-Century Drama
- ENG 466A - Nineteenth-Century Drama
- ENG 467A - Modern British Drama
- ENG 467B - Modern American Drama
- THTR 413 - Drama of Today
- THTR 424 - Gay Plays
- THTR 426 - Women Playwrights
- THTR 428 - Black Drama and Performance
- THTR 461 - Play Structure and Analysis II
- THTR 462 - Dramaturgy

Electives - Credits: 16-17

Total Credits: 120
**Theatre Minor (24 credits)**

Non-theatre majors may declare a minor through the department office. All students pursuing a minor in theatre must complete THTR 199 and an additional 21 credits prefixed THTR. A minimum of 12 credit hours must be at the 300–400 level. Work in the minor must be completed by the date of graduation in the student’s major field of study. A minimum of nine credit hours must be completed in residence at UNLV.

Theatre minors wishing to enroll in courses designated for theatre majors only should consult with a department advisor for placement and specific requirements.

**Secondary Teacher Certification:**

**Theatre**

Students wishing to certify in teacher education should contact the College of Education Advising Center (CEB 144) for the requirements leading to a certification track in theatre education.

All students pursuing teacher certification who wish to take courses designated for majors only must officially register with the Department of Theatre.

**Theatre**

**THTR 100 - Introduction to Theatre**

Explores theatre as a cultural attribute of world society. Special focus on theatre as an expression of culture, a representation of international themes, and its contribution to the development of civilization.

Credits: 3

Notes: Satisfies International and Fine Arts Requirement. Not open to declared theatre majors.

**THTR 102 - Introduction to Stage Voice**

Fundamentals of voice production including relaxation, alignment, breath, resonance and articulation. Vocal health and the physiological aspects of voice/speech production. Students complete numerous performance projects.

Credits: 3

Notes: Intended for non-majors only.

**THTR 105 - Introduction to Acting I**

Fundamentals of acting with emphasis on improvisation and personalization through the exploration of selected scenes and monologues.

Credits: 3

Notes: Intended for non-majors only. Satisfies Fine Arts Requirement.

**THTR 108 - Introduction to Playwriting**

Fundamentals of the craft of writing plays, stressing elements such as plot, character, dialogue, and structure. Emphasis on writing short plays.

Credits: 3

**THTR 111 - Theatre Practicum**

Students assigned a practical laboratory experience in Theatre Production - costume, scenery, lights, sound or props.

Credits: 1

May be repeated for a maximum of 4 credits.

**THTR 121 - Stage Makeup**

Acquaints the student with the beginning principles of makeup and progresses to character makeup.

Credits: 1

Prerequisites: Theatre major.

**THTR 122 - Theatre for Senior Adults**

Apply acting, directing, and creative drama techniques to senior adult populations. Students work with adults at senior centers, senior adult residences, and in-class productions.

Credits: 3
**THTR 124 - Introduction to Gay Plays**  
Survey course in which students read, analyze, and discuss selected gay plays.  
Credits: 3  
Notes: Satisfies the Multicultural and Fine Arts Requirement.  
Written by women. Women's history, theatrical conventions, performance theories, and theatrical activity explored in addition to their writing. Focuses on theatrical texts written by women. Duplicate credits cannot be earned for THTR 126 and 426.  
Credits: 3  
Notes: Satisfies the Multicultural Requirement.

**THTR 128 - Introduction to Black Drama and Performance**  
Introduction to the origins and development of Black American Drama and black practitioners of the theatre arts from 1800s to contemporary times. Duplicate credits cannot be earned for THTR 128 and THTR 428.  
Credits: 3  
Notes: Satisfies the Multicultural Requirement.

**THTR 140 - Beginning Singing for Actors**  
Basic skills in musicianship, vocal production, breath support, and the use of the singing voice. Prepares students for private study and the musical theatre stage.  
Credits: 3

**THTR 175 - Introduction to Musical Theatre Literature**  
Survey course intended to provide an appreciation of musical theatre, with primary focus on the contemporary musical.  
Credits: 3  
Notes: Satisfies Fine Arts Requirement.

**THTR 176 - Musical Theatre Workshop**  
Workshop in the techniques of performance of material from musical plays.  
Credits: 3  
May be repeated to a maximum of six credits.

**THTR 198 - Special Topics in Theatre**  
Study in special or unique areas of theatre. Topics announced in the class schedule each semester.  
Credits: 1-4  
May be repeated to a maximum of six credits.

**THTR 199 - Play Structure and Analysis I**  
Introduction to the study of basic principles of script analysis: form, style, structure, theme. Survey of theatrical literature from Ancient Greece to the present.  
Credits: 3

**THTR 200 - Introduction to Design/Technology**  
Introduction to the basic design and technical components of theatrical production, and their related goals, as they combine with acting to create theatre. Through lecture, projects, and discussion, students will attain a basic understanding of the collaborative nature of production. Course is co-taught by design and technology faculty.  
Credits: 3

**THTR 201 - Costume Design I**  
Study and practice of costume design/production and visual storytelling through play analysis, research, conceptualizing and through a variety of drawing and communication skills. Involvement in Costume Shop Lab a mandatory component. Should not be taken concurrently with THTR 202, 203, or 204. Course fee attached.  
Credits: 3  
Prerequisites: THTR 199 and THTR 200.

**THTR 202 - Scenic Design I**  
With an emphasis on inquiry, critical thinking, research, dramaturgy and storytelling, this course fosters exploration of how a scenic designer makes discoveries and decisions and shares them through design and effective communication. Should not be taken concurrently with THTR 201, 203, or 204. This course requires a weekly two-hour lab session. Course fee attached.
THTR 203 - Lighting Design I
Study of the historic, aesthetic, technical, and practical aspects of stage lighting. This course requires participation in lab that prepares for and fills key lighting positions on crews for College of Fine Art productions. Should not be taken concurrently with THTR 201, 202, or 204.
Credits: 3
Prerequisites: THTR 199 and THTR 200.

THTR 204 - Theatre Technology I
A scenery construction course that focuses on: material management, tool use, theatrical construction techniques, including woodworking, welding, rigging, and terminology, for a variety of scenery types. Should not be taken concurrently with THTR 201, 202, or 203. This course requires a weekly two-hour lab session. Course fee attached.
Credits: 3
Prerequisites: THTR 199 and THTR 200.

THTR 216 - Freshman Performance Laboratory
Laboratory complements the freshman acting/voice and movement sequence courses. Explores and expands on basic techniques and methods presented in Acting Studio/Voice & Movement I and II. Lab time also used for scene presentations, workshops by guest artists or other activities specified by the instructor.
Credits: 0
Notes: Concurrent enrollment in THTR 230 & 231 and/or 330 & 331 required.

THTR 217 - Entertainment Sound I
This is the entry-level course for sound design and technology in the live entertainment industry. Students will become familiar with basic theatre terminology, audio equipment and the sound design process.
Credits: 3
Corequisites: MUS 232

THTR 223 - Theatre for Senior Adults: Practical Application
Ongoing laboratory class for advanced senior adult theatre students who wish to research and develop senior theatre projects. Particular attention paid to oral history and the dissemination of new plays for senior adults.
Credits: 3
May be repeated to a maximum of six credits.

THTR 225 - Theatre for Senior Adults: Scene Study
Intensive and extensive study in monologue and scene work. Role analysis and performance preparation adapted to the special requirements of most older adults, particularly in the areas of physicalizing a role, concentration, and line memorization. Emphasis given to scripts that show older adulthood from various ethnic, racial, and religious viewpoints.
Credits: 3
Notes: Satisfies Multicultural Requirement.

THTR 230 - Voice and Movement for the Actor I
Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor’s voice and body.
Credits: 3
Notes: For majors only.
May be repeated for a maximum of nine credits.

THTR 231 - Acting: Basic Technique
Beginning acting technique. Explores the actor’s craft through impulse, sense and emotional memory, subtext, action/objective and active listening.
Credits: 3
May be repeated to a maximum of nine credits.
**THTR 240 - Acting: Camera**  
Introduction to the concept and practice of performing on camera and working with directors. Performance and discussion of scenes from television, film, and commercials. Discussion of the business of the entertainment industry.  
Credits: 3  
Prerequisites: THTR 231.

**THTR 243 - Staging for the Actor**  
Co-taught with theatre and film faculty. Student actors work in collaboration with film student directors on assigned projects filmed in and out of class.  
Credits: 3

**THTR 245 - Basic Stage Combat**  
Explores principles of stage violence in historical and contemporary theatre for beginning students.  
Credits: 3  
Notes: Participation as an actor/combatant required.

**THTR 247 - Beginning Improvisation**  
Exploration of basic theatrical improvisation for general students. Focuses on spontaneity, flexibility, and structure. Variety of theatrical styles and improvisational techniques explored.  
Credits: 3

**THTR 306 - Advanced Acting**  
Scene and monologue study with emphasis on audition technique, character analysis, rehearsal process, and performance proficiency. Intended for non-majors only.  
Credits: 3  
Prerequisites: THTR 105.  
May be repeated for a maximum of nine credits.

**THTR 316 - Sophomore Performance Laboratory**  
Laboratory complements the sophomore acting sequence courses. Explores and expands on basic techniques and methods presented in the Acting Studio III, IV and VIII. Lab time also be used for scene presentations, workshops by guest artists or other activities specified by the instructor.  
Credits: 0  
Notes: Concurrent enrollment in THTR 431, THTR 467 or THTR 471.

**THTR 317 - Entertainment Sound II**  
This is the intermediate-level course for sound design and technology in the live entertainment industry. Students will become familiar with live sound reinforcement theory and techniques.  
Credits: 3  
Prerequisites: EED 217 or THTR 217  
Notes: Same as EED 317

**THTR 322 - Oral History Theatre**  
Focuses on the study of the development, structure and performance technique of oral history theatre revues. Methods presented along with guidelines for adapting the techniques to a variety of age groups participating in the revue process. Culminates with a class production of an actual revue in a community venue.  
Credits: 3  
Prerequisites: THTR 122, THTR 199.

**THTR 330 - Voice and Movement for the Actor II**  
Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor’s voice and body. For majors only.  
Credits: 3  
Prerequisites: THTR 230.  
May be repeated for a maximum of nine credits.

**THTR 331 - Acting Studio II: Technique**  
Intermediate acting technique. Continues the development of the actor's craft. Topics include: action/objective, ensemble skills, beginning character development and scene work.  
Credits: 3  
Prerequisites: THTR 231  
May be repeated for a maximum of nine credits.
THTR 335 - Speech for the Actor I
Beginning speech for the stage. Focuses on developing clear and intelligible speech for the stage. Topics include: articulation, International Phonetic Alphabet, phrasing, stress, rhythm, intensity, and clarity of thought.
Credits: 3
Prerequisites: THTR 230.
May be repeated for a maximum of nine credits.

THTR 340 - Intermediate Singing for Actors
Continued instruction in vocal technique and its application to the musical theatre stage. Primary focus on vocal health and maintenance through the study of operatic vocal techniques.
Credits: 3
Prerequisites: THTR 140.

THTR 341 - Advanced Acting for the Camera
Combined monologue and scene study course. Focus on building, sustaining and developing a believable character and actor relationship, and transferring performance from stage to screen.
Credits: 3
Prerequisites: THTR 231, 331.

THTR 342 - Acting: Daytime Drama (Soaps)
Students learn rules and practice the art of performing television daytime drama sometimes described as “soap operas.” Scene work done from actual soap opera scripts. Two-three camera set-ups utilized.
Credits: 3
Prerequisites: THTR 240.

THTR 343 - Acting: Commercials
Advanced course in commercial acting. Builds on the foundation for commercial auditioning and performing by introducing varying forms and techniques for copy reading, script analysis, handling products and script-in-hand techniques. Focuses on individual actor personality and marketing as well.
Credits: 3
Prerequisites: THTR 240.

THTR 344 - Acting: Situation Comedy
Students learn the rules and practice the art of performing television comedy. Scene work done from actual sit-com scripts. Two-three camera set-ups utilized.
Credits: 3
Prerequisites: THTR 240.

THTR 346 - Acting: Film
Students work in collaboration with film directing students performing scenes from an actual movie script. Scenes viewed and evaluated on a big screen and an invited director from the Hollywood industry guest lectures on a regular basis.
Credits: 3
Prerequisites: THTR 240.
May be repeated to a maximum of six credits.

THTR 347 - Acting for the Camera Director II
AFC students work in collaboration with film directing students performing scenes from an actual movie script. Scenes viewed and evaluated on a big screen and an invited director from the Hollywood industry guest lectures on a regular basis.
Credits: 3
Prerequisites: THTR 346.

THTR 353 - Theatre for Senior Adults: Practicum
Students assigned a practical laboratory experience in a Senior Adult Theatre Performance – acting, directing, or technical support.
Credits: 3
Prerequisites: THTR 225.
May be repeated to a maximum of six credits.

THTR 380 - Stage Management
Study and practice of the art of theatre stage management. Participation in departmental productions integral to the course.
Credits: 3
Prerequisites: THTR 200 and one of the following THTR 201, 202, 203 or 204, and junior standing.
THTR 401 - Costume Design II
Exploration of the role of costume designer from first rough sketches to colored renderings to fabric selection. Other areas include: play/character analysis, presentation strategies and director/designer communication. Participation in departmental productions integral to the course.
Credits: 3
Prerequisites: THTR 201.
Notes: This course is crosslisted with THTR 601. Coursework at the 600-level requires additional work.
May be repeated to a maximum of nine credits.

THTR 402 - Scenic Design II
Practical application of the principles of scenic, costume, and lighting design. Participation in departmental productions integral to the course.
Credits: 3
Prerequisites: THTR 202.
May be repeated to a maximum of nine credits.

THTR 403 - Lighting Design II
Aesthetics and artistry of stage lighting design. Historical and contemporary solutions to lighting for theatre, dance, opera and television explored through design projects.
Credits: 3
Prerequisites: THTR 203.
May be repeated to a maximum of nine credits.

THTR 404 - Theatre Technology II
Theory and practice of advanced scenery construction techniques that may include stage properties design and construction, theatrical rigging, and advanced woodworking. Through research study, and practical application, students will study these topics as related to production demands of the Department of Theatre.
Credits: 3
Prerequisites: THTR 204.
May be repeated to a maximum of nine credits.

THTR 405 - Career Development and Portfolio Preparation for Theatre
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.
Credits: 3
Prerequisites: THTR 201, THTR 202, THTR 203, THTR 204.
Offered for three credits and may be repeated for up to six credits.
Credit at the graduate-level requires additional work; this course is crosslisted with THTR 605

THTR 406A - Computer Drafting & Rendering: AutoCAD
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.
Credits: 3
Prerequisites: THTR 202, 203, or 204
Credit at the graduate-level requires additional work; this course is crosslisted with THTR 606A

THTR 406B - Computer Drafting & Rendering: VectorWorks
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.
Credits: 3
Prerequisites: THTR 202, 203, or 204
Credit at the graduate-level requires additional work; this course is crosslisted with THTR 606B
THTR 406C - Computer Drafting & Rendering: Digital Rendering
Exploration of various computer software programs to effectively communicate research, design, and conceptual ideas as the foundation of collaborative communication as a production designer.
Credits: 3
Prerequisites: THTR 202, 203, 204
Credit at the graduate-level requires additional work; this course is crosslisted with THTR 606C

THTR 407 - Sound Design for the Theatre
Art and technical implementation of sound design for theatrical production is developed through lectures, projects, research paper, demonstrations, and practical experience. Creation of sound design for a current production is required.
Credits: 3
Prerequisites: THTR 202 or 203 or 204

THTR 409 - Scene Painting Studio
Develop basic and traditional scene painting skills and techniques. Through hands on practice in studio and for NCT productions, learn how to use commonly used tools and tricks of the scenic artist.
Credits: 3
Prerequisites: THTR 200, and THTR 202 or THTR 204.
Notes: This course is crosslisted with THTR 609. Credit at the 600-level requires additional work.

THTR 411 - Theatre Practicum II
Students assigned a practical laboratory experience in Theatre Production - costume, scenery, lights, sound or props.
Credits: 1
Prerequisites: THTR 111.
May be repeated for a maximum of four credits.

THTR 412 - TV/Film Script Analysis
Actors will learn how to break down a script and create the richest and most varied character that will embody the script’s time period and unique world.
Credits: 3
Prerequisites: THTR 342 or 343 or 344

THTR 413 - Drama of Today
Study of contemporary dramatic literature, limited to plays written approximately within the last ten to twenty years.
Credits: 3

THTR 415 - Junior/Senior Voice & Movement Laboratory
Laboratory complements junior/senior voice and movement sequence courses. Explores and expands on basic techniques and methods presented in Voice & Movement III and IV. Lab time also used for scene presentations, workshops by guest artists or other activities specified by the instructor.
Credits: 0
Notes: Concurrent enrollment in THTR 430 or 440 required.

THTR 416 - Junior/Senior Performance Laboratory
Laboratory complements junior/senior acting sequence courses. Explores and expands on basic techniques and methods presented in Acting Studio V and VI and VII. Lab time also used for scene presentations, workshops by guest artists or other activities specified by the instructor.
Credits: 0
Notes: Concurrent enrollment in THTR 468, 469 or 470 required.
THTR 417 - Entertainment Sound III
This is an advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with sound system design and installation in live entertainment venues.
Credits: 3
Prerequisites: EED 317 or THTR 317.
Notes: Same as EED 417.

THTR 418 - Entertainment Sound IV
A continuation of the advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with the business of sound system design and installation in live entertainment venues. Students will also become familiar with effective system planning and integration from the end-user point of view.
Credits: 3
Prerequisites: EED 417 or THTR 417.
Notes: Same as EED 418.

THTR 421A - Entertainment and Fine Arts Law I
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.
Credits: 3
Notes: Same as AAD 421A, DAN 421A. This course is crosslisted with THTR 621A. Credit at the 600-level requires additional work.

THTR 421B - Entertainment and Fine Arts Law II
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.
Credits: 3
Prerequisites: DAN 421A or THTR 421A.
Notes: Same as AAD 421B, DAN 421B. This course is crosslisted with THTR 621B. Credit at the 600-level requires additional work.

THTR 424 - Gay Plays
Study of selected gay plays which includes an examination of appropriate themes and issues.
Credits: 3
Notes: Satisfies the Multicultural Requirement
Same as WMST 424

THTR 426 - Women Playwrights
Study of dramatic literature for the stage written by women. Women's history, theatrical conventions, performance theories, and theatrical activity explored in addition to their writing. Focuses on theatrical texts written by women. Duplicate credits cannot be earned for THTR 126 and 426.
Credits: 3
Prerequisites: Junior standing.
Notes: Satisfies the Multicultural Requirement.

THTR 428 - Black Drama and Performance
Study of the origins and development of Black American Drama and Black practitioners of the theatre arts from 1800s to contemporary times. Duplicate credits cannot be earned for THTR 128 and THTR 428.
Credits: 3
Prerequisites: Junior standing.
Notes: Satisfies the Multicultural Requirement.

THTR 430 - Voice and Movement for the Actor III
Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor’s voice and body.
Credits: 3
Prerequisites: THTR 330.
Notes: For majors only.
May be repeated for a maximum of nine credits.
**THTR 431 - Acting: Scene Study**
Rehearse and present scenes from contemporary theatre. Emphasis on technique, characterization, action/objective and ensemble skills.
Credits: 3
Prerequisites: THTR 231.

**THTR 435 - Speech for the Actor II**
Advanced Speech for the stage. Topics include advanced studies in the International Phonetic Alphabet, attention to individual speech problems, phrasing, stress, rhythm, intensity, and clarity of thought and development of elevated language pieces.
Credits: 3
Prerequisites: THTR 335.
May be repeated for a maximum of nine credits.

**THTR 440 - Voice and Movement for the Actor IV**
Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor’s voice and body.
Credits: 3
Prerequisites: THTR 430.
Notes: For majors only.
May be repeated for a maximum of nine credits.

**THTR 441 - Cold Reading for the Actor**
Advanced performance course designed to aid the actor in giving a believable character portrayal with limited access to the script and limited information about the character.
Credits: 3

**THTR 442 - Casting for the Camera**
Advanced workshop course. Students take part in casting sessions conducted by professional casting directors and in real life situations. Professional protocol strictly adhered to, creating the professional audition environment.
Credits: 3

**THTR 444 - Acting: Voice-over**
This course explores the art of using the voice to sell, inform and entertain. Techniques for a professional career are taught. Genres covered include commercials, promos, narration, PSA’s, animation, radio imaging, CD rom, political spots and jingles. A fully produced reel is the goal of the course.
Credits: 3
Prerequisites: THTR 231.

**THTR 445 - Stage Combat**
Explores principles of stage violence in historical and contemporary theatre for advanced students. Focus also on the role of Fight Choreographer.
Credits: 3
Prerequisites: THTR 230 or 245
Notes: Participation as an actor/combatant required.

**THTR 447 - Acting: Improvisation**
Exploration of theatrical improvisation for advanced students. Focuses on spontaneity, flexibility, and structure. Variety of theatrical styles and improvisational techniques explored with focus on role of improvisation as a rehearsal technique.
Credits: 3
Prerequisites: THTR 231
May be repeated to a maximum of six credits.

**THTR 453 - Playwriting**
Practice in the craft of writing plays exploring such aspects as image, metaphor, style, and tone.
Credits: 3
Prerequisites: One of the following: ENG 205, THTR 108, or THTR 199.

**THTR 454 - Directing Laboratory**
Introduction to the basic principles and techniques of play direction.
Credits: 3
THTR 461 - Play Structure and Analysis II
Study in script analysis including form, style, literal and metamorphical content and themes.
Credits: 3
Prerequisites: THTR 199.

THTR 462 - Dramaturgy
This course will give the student an introduction to the role of the dramaturg in the modern American theatre and practical experience in dramaturgical methods.
Credits: 3
Prerequisites: THTR 199.

THTR 467 - Acting: Audition
Practical aspects of developing audition techniques. Emphasis on techniques for interviews, cold readings, call backs, and other aspects of the profession.
Credits: 3
Prerequisites: THTR 231.
May be repeated to a maximum of six credits.

THTR 468 - Acting: Shakespeare
Classical text with emphasis on Shakespeare. Actors explore scansion, phrasing, and vocal expansiveness through scene and monologue work.
Credits: 3
Prerequisites: THTR 231.
May be repeated to a maximum of six credits.

THTR 469 - Acting: Comedy of Manners
Seventeenth- and eighteenth-century Comedy of Manners. Emphasis on period movement and the intrinsic demands of the text with respect to timing and rhythm.
Credits: 3
Prerequisites: THTR 231.
May be repeated to a maximum of six credits.

THTR 470 - Acting: Modern Styles
Advanced scene study of American, British, and continental dramatists of the period loosely termed Modern, including Ibsen, Strindberg, Chekhov, Genet, Beckett, Williams, O’Neill, Shaw, Wilde.
Credits: 3
Prerequisites: THTR 231.
May be repeated to a maximum of six credits.

THTR 471 - Acting: Musical Theatre
Advanced workshop in the techniques of performance of material from musical plays.
Credits: 3
Prerequisites: THTR 231.
May be repeated to a maximum of six credits.

THTR 474A - Actor/Director Relationship
Acting students work with directing students enrolled in THTR 474B on a collaborative process to create a complete theatrical entity. Emphasis on the rehearsal process and technique, development of short plays and original works.
Credits: 1-3
Prerequisites: THTR 230 and THTR 231.
May be repeated to a maximum of nine credits.

THTR 474B - Director/Actor Relationship
Directing students work with acting students enrolled in THTR 474A on a collaborative process to create a complete theatrical entity. Emphasis on the rehearsal process and technique, development of short plays and original works.
Credits: 3
Prerequisites: THTR 230 and THTR 231.
May be repeated to a maximum of nine credits.

THTR 475 - Musical Theatre Literature
Study of selected plays of the American and European musical theatre.
Credits: 3
Prerequisites: THTR 175.

THTR 478 - Internship
Internship at regional centers of theatre activity.
Credits: 1-4
Prerequisites: Theatre major with junior/senior standing.
May be repeated to a maximum of six credits.
**THTR 480 - Stage Management II**
Rotating topics may include theatrical unions overview, rehearsal and work related rules, production management and theatre management as related to stage management.
Credits: 3
Prerequisites: THTR 380.
May be repeated for a maximum of nine credits.

**THTR 481 - Theatre History I**
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.
Credits: 3
Prerequisites: THTR 100 or THTR 199.
Notes: This course is crosslisted with THTR 681.
Credit at the 600-level requires additional work.

**THTR 482 - Theatre History II**
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.
Credits: 3
Prerequisites: THTR 100 or THTR 199.
Notes: Representative plays discussed. This course is crosslisted with THTR 682. Credit at the 600-level requires additional work.

**THTR 483 - Research in Period Styles and Aesthetics for Stage and Screen**
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.
Credits: 3
Prerequisites: Junior standing and THTR 200.
Credit at the graduate-level requires additional work; this course is crosslisted with THTR 683

**THTR 484 - Professional Perspectives**
Master class by Professional Entertainment Specialists and Makers. Study may focus on any and all areas of entertainment theory and practice.
Credits: 1-3
Prerequisites: THTR 200 and at least two of THTR 201, 202, 203 or 204.
May be repeated to a maximum of 9 credits.

**THTR 490 - AFC Special Topics**
Study in special or unique area of film or TV acting. Topics to be cleared with the department at beginning of the semester. May be used for THTR degree requirement only with prior consent of the undergraduate advisor.
Credits: 3
Prerequisites: THTR 442.
May be repeated to a maximum of six credits.

**THTR 491 - Special Topics**
Study in special or unique areas of theatre. Topics announced in the class schedule each semester. May be used for THTR degree requirement only with prior consent of the undergraduate advisor.
Credits: 1-4
May be repeated to a maximum of six credits.

**THTR 493 - Acting as a Profession**
An in depth look at graduate training programs and career opportunities for professional actors. Emphasis on programs and professional theatres as well as resume, headshots, unions, agents, managers and audition technique.
Credits: 3
Prerequisites: THTR 231.

**THTR 495 - Supervised Individual Study**
Tutorial study of special problems in theatre. Student submits a detailed project description agreed upon first by student and instructor and then by two other members of the theatre faculty. May not be used in meeting the core requirement credits.
Credits: (1-3)
Prerequisites: Junior or senior standing; permission in advance of registration from the undergraduate advisor.
May be repeated to a maximum of six credits.
Division of Health Sciences

Purpose and Focus
The Division of Health Sciences was established to provide academic programs leading to professional specialization within the health care industry. Successful completion of the student’s chosen academic program will provide the graduate with the knowledge and skills necessary to compete in the health care industry in a variety of settings. Curricular offerings within the division provide the student with a foundation in the liberal arts and sciences. Each health science discipline emphasizes the development of professional competence through course work that stresses the theoretical as well as the clinical aspects of the chosen field. Each of the curricular offerings within the division provides students the opportunity to practice their chosen discipline in a wide variety of clinical agencies in the Las Vegas community. The dynamic growing health care industry in Southern Nevada is receptive to the students and to UNLV graduates.

Accreditation
Accreditation Board for Engineering and Technology
Commission on Collegiate Nursing Education (CCNE)
Northwest Commission on Colleges and Universities
Joint Review Committee on Educational Programs in Nuclear Medicine Technology
Commission for the Accreditation of Athletic Education
The Accreditation Council for Education in Nutrition and Dietetics (ACEND)
Council on Accreditation of Allied Health Education Programs
Joint Review Committee on Education in Radiologic Technology
Commission on Accreditation of Medical Physics Educational Programs

School of Integrated Health Sciences
Department of Health Physics and Diagnostic Sciences
Comprehensive Medical Imaging — Bachelor of Science
Health Physics — Bachelor of Science
Nuclear Medicine — Bachelor of Science

Department of Kinesiology and Nutrition Sciences
Athletic Training — Bachelor of Science
Kinesiological Sciences — Bachelor of Science
Nutrition Sciences — Bachelor of Science
Didactic Program in Dietetics
Dietetic Internship (Post Baccalaureate Supervised Practice)

School of Nursing
Nursing — Bachelor of Science

School of Public Health
Health Care Administration — Bachelor of Science
Public Health — Bachelor of Science

Minors
Health Physics
Kinesiology
Public Health: two minors
  Public Health
  Sustainability and Health

Certificate
Radiography

Graduate Degree Programs
Master of Science in Health Physics
Doctor of Medical Physics
Master of Science in Exercise Physiology
Master of Science in Kinesiology
Master of Science in Nutrition Sciences
Doctor of Philosophy in Kinesiology
Doctor of Physical Therapy
Doctor of Philosophy in Public Health
Master of Health Care Administration
Master of Public Health
Master of Health Care Administration
Master of Science in Nursing
Doctor of Nursing Practice
Doctor of Philosophy in Nursing
Master of Science - Oral Biology
Master Public Health - Dental Fast Tracks
Dual Degree: Master of Business Administration &
Doctor of Dental Medicine  
Doctor of Philosophy - Interdisciplinary Health Sciences

**Advisement**
All undergraduate academic advising is done through the Division of Health Sciences Advising Center in Classroom Education Building (CEB 399). Program requirements are available in the Division of Health Sciences Advising Center. It is the student’s responsibility to maintain contact with advisors as changes in departmental policies and programs may occur. Phone: 702-895-5448.

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**School of Integrated Health Sciences**

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**Accreditation**
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Northwest Commission on Colleges and Universities  
Joint Review Committee on Educational Programs in Nuclear Medicine Technology  
Commission for the Accreditation of Athletic Education  
The Accreditation Council for Education in Nutrition and Dietetics (ACEND)  
Council on Accreditation of Allied Health Education Programs  
Joint Review Committee on Education in Radiologic Technology  
Commission on Accreditation of Medical Physics Educational Programs
Advisement
All undergraduate academic advising is done through the Division of Health Sciences Advising Center in Classroom Education Building (CEB 399). Program requirements are available in the Division of Health Sciences Advising Center. It is the student’s responsibility to maintain contact with advisors as changes in departmental policies and programs may occur. Phone: 702-895-5448.

Health Physics and Diagnostic Sciences

Purpose and Focus
The Department of Health Physics and Diagnostic Sciences educates students in the applied, interdisciplinary sciences of radiation protection and medical imaging. All degree programs in the department have a strong foundation in mathematics and the physical and life sciences. Graduates of the programs are prepared for entry-level employment as radiation safety, clinical laboratory, or medical imaging professionals. Graduates also meet many of the prerequisites for advanced graduate or professional studies.

Accreditation
Accreditation Board for Engineering and Technology (ABET)Commission on Accreditation of Medical Physics Educational Programs
Commission on Accreditation of Medical Physics Educational Programs
Joint Review Committee on Educational Programs in Nuclear Medicine Technology
Joint Review Committee on Education in Radiologic Technology
Northwest Commission on Colleges and Universities

Undergraduate Majors
Comprehensive Medical Imaging
Health Physics
Nuclear Medicine
Radiologic Sciences
Certification and Licensure Programs

Graduates of the B.S. in Nuclear Medicine are eligible to write both the ARRT (American Registry of Radiological Technologists) and NMTCB (Nuclear Medicine Technologists Certification Board) national registries in nuclear medicine. Graduates of the B.S. in Comprehensive Medical Imaging are eligible to take the ARRT (American Registry of Radiological Technologists) national registry in magnetic resonance imaging, provided they are certified in radiography or nuclear medicine. Graduates may take the national registry in computed tomography only if they are certified in radiography.

Admission to the Major
Minimum GPA: 3.00 entering freshmen; 2.75 transfer and UNLV students with a minimum of 30 credits

Admission Policies
Admission to the university does not guarantee admission to academic programs within the health physics department.

Students must fulfill the following admission requirements: a cumulative high school GPA of 3.00 or above or a cumulative GPA of 2.75 or above in 30 credits taken at UNLV or accepted in transfer by the university. Normally, the last 30 credits establish the GPA.

Applicants not meeting these requirements may be admitted on a probationary status. Students admitted on probation must complete 30 credits in the specified program and/or university-required courses at UNLV, with a cumulative GPA of 2.50 or above in order to remain in the program. Previous course work will be evaluated for adequacy.

Students in the B.S. in Comprehensive Medical Imaging must have also successfully completed a nationally accredited radiography program of study prior to admission into the CT/MRI track of the program. Students not meeting this admission requirement may be admitted into the degree program on a case-by-case basis with approval from the department chair.

Applicants for the B.S. in Nuclear Medicine program must fulfill the following admission requirements: a cumulative high school GPA of at least 3.00 or a cumulative GPA of 2.75 or higher in 60 credits taken at UNLV or accepted in transfer by the university and submission of a program application by noon on the last Friday in February for possible entrance the following fall. Completion of the above does not guarantee acceptance to the program as admission is limited.

Transfer Policies
Transfer students need a cumulative GPA of 2.75 or above in credits accepted for transfer by the university for admission into the CMI, HPS or NUC programs. Previous course work will be evaluated for adequacy.

Students in the B.S. in Comprehensive Medical Imaging must have also successfully completed a nationally accredited radiography program of study prior to admission into the CT/MRI track of the program.

Department Policies
Progression Requirements
Students must:

1. Maintain a cumulative GPA of 2.50 or higher each semester enrolled and have no negative grade point averages,
2. Receive a grade of C or better in all required RAD, HPS, CMI, or NUC courses,
3. Not register for the same RAD, HPS, CMI, or NUC course more than two times (except HPS 411, CMI 490, RAD 490, and CMI 485).
4. Students who have successfully completed a nationally accredited radiography program prior to their admission to the CT/MRI track of Comprehensive Medical Imaging must have also successfully completed a nationally accredited radiography program of study prior to admission into the CT/MRI track of the program.
Imaging degree program must pass a national registry in radiography prior to graduation.

5. Student progression into RAD, CMI, and NUC clinical course work may be limited based upon the availability of clinical sites.

6. Additional policies for each program are published in the appropriate program policy manual.

7. All students accepted to a clinical program must be able to pass a national background check and a drug screening test.

Advisement
Each student is assigned an academic advisor from the Department of Health Physics and Diagnostic Sciences faculty. It is the responsibility of the student to contact the advisor periodically, at least once each semester. The advisor will assist and advise the student in course selection and progression in program advancement.

Comprehensive Medical Imaging Major (BS)

Comprehensive Medical Imaging Major - Bachelor of Science (BS)
Please see the UNLV School of Allied Health Sciences, Health Physics and Diagnostic Science department web page at www.healthphysics.unlv.edu for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-comprehensive-medical-imaging.

Please see advising information at the UNLV Division of Health Sciences Academic Advising Center at www.alliedhealth.unlv.edu/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Objectives
1. Apply theoretical and practical diagnostic medical imaging concepts in the workplace.
2. Support their aspirations for obtaining professional certifications.
3. Demonstrate the utilization of mathematical and scientific concepts within the specialized knowledge concepts of the discipline.
4. Demonstrate an understanding of the research process and its relationship to current and future diagnostic medical imaging activities.
5. Continue to acquire knowledge and experiences required to assume leadership roles in the diagnostic medical imaging profession.
6. Function collaboratively with members of other health care disciplines.
7. Become involved with national and local medical imaging-related professional societies.
8. Have a solid academic foundation to allow entry into graduate programs.
9. Conduct themselves in an ethical and professional manner.

University Graduation Requirements
- Please see Graduation Policies for complete information

Comprehensive Medical Degree Requirements - Total: 120 Credits

Comprehensive medical imaging employs advanced imaging modalities to make diagnostic evaluations of the body. The CMI program at UNLV is an innovative academic program designed to educate students in a foundation of mathematics and the sciences applicable to the interdisciplinary and applied science of diagnostic medical imaging. The program offers theoretical and clinical course work in the advanced-level modalities of magnetic resonance imaging, ultrasound, and computed tomography. Graduates of the program help meet
the demand for professional personnel to perform patient imaging procedures on state-of-the-art advanced imaging systems, process and enhance computer images, prepare and administer contrast agents, maintain strict quality control guidelines, and conduct research in the comprehensive medical imaging area.

General Education Requirements - Subtotal: 38-39 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 5
- MATH 128 - Precalculus and Trigonometry

Distribution Requirements - Credits: 18

Please see Distribution Requirement for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits
- Social Science: 9 Credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International Requirements, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BS in Comprehensive Medical Imaging - Subtotal 62-79 Credits

- Sciences - Credits: 24
  - BIOL 189 - Fundamentals of Life Science
  - BIOL 223 - Human Anatomy and Physiology I
  - BIOL 224 - Human Anatomy and Physiology II
  - PHYS 151 - General Physics I
  - PHYS 152 - General Physics II

- Comprehensive Medical Imaging Core - Credits: 26-35
  - RAD 100 - Introduction to Medical Imaging
  - RAD 117 - Patient Care in Medical Imaging and Radiation Therapy
  - HPS 102 - Radiation Science
  - HPS 420 - Radiation Biology
  - CMI 376 - Sectional Anatomy in Medical Imaging
  - CMI 490 - Comprehensive Medical Imaging Clinical Education (see note 1 below)
  - CMI 485 - Imaging Case Reviews (twice)

- Advanced Modality Studies - Credits: 12-20
  - Students select one of the following tracks

  - CT/MRI Track:
    - CMI 330 - Introduction to Magnetic Resonance Imaging
    - CMI 332 - Magnetic Resonance Imaging Pathology
    - CMI 360 - Principles of Computed Tomography
    - CMI 361 - Computed Tomography Pathology

or
**Ultrasound Track:**
- CMI 350 - Ultrasound Physics and Instrumentation
- CMI 351 - Abdominal Ultrasound
- CMI 352 - Obstetric Ultrasound
- CMI 353 - Gynecologic Ultrasound
- CMI 354 - Vascular Ultrasound
- CMI 355 - Ultrasound Practicum

**Radiography Track:**
- RAD 330 - Radiography Clinical Education I
- RAD 331 - Radiography Clinical Education II
- RAD 332 - Radiography Clinical Education III
- RAD 333 - Radiography Clinical Education IV
- RAD 334 - Radiography Clinical Education V
- RAD 350 - Physics of X-Ray Production
- RAD 351 - Physics of X-Ray Production Laboratory
- RAD 354 - Radiographic Quality Assurance and Techniques
- RAD 370 - Radiographic Procedures I
- RAD 371 - Radiographic Procedures Skill Laboratory I
- RAD 372 - Radiographic Procedures II
- RAD 373 - Radiographic Procedures Skills Laboratory II
- RAD 474 - Radiographic and Special Imaging Pathology
- RAD 484 - Principles of Digital Imaging
- RAD 486* - Ethics and Medical Law in Radiology

**Electives - Credits: 5-21**

Must be approved by the student’s advisor

Up to 5 credits of lower-division RAD courses may be used as electives in the ultrasound track.

CT/MRI and Ultrasound Tracks may use up to 20 credits upper division RAD courses may be used as electives (note: they are required in the RAD Track).

Up to six additional credits of CMI 490 (beyond the required nine) may be used for electives in the CT/MRI track.

Total Credits: 120

**Notes**

1. Students in the Ultrasound track may take CMI 490 four times for a total of 12 credits.

**Comprehensive Medical Imaging**

**CMI 330 - Introduction to Magnetic Resonance Imaging**
Utilization of magnetic resonance imaging (MRI) in the medical environment. Topics include the physics of MRI, patient care, and safety. Includes site visits.
Credits: 3
Prerequisites: PHYS 151 and RAD 100.

**CMI 331 - Principles of Magnetic Resonance Imaging**
Principles of magnetic resonance imaging (MRI) and its application in medical diagnostic imaging. Emphasis on imaging procedures, data acquisition and processing, quality control/management, gating, MRA, and spectroscopy.
Credits: 3
Prerequisites: CMI 330.

**CMI 332 - Magnetic Resonance Imaging Pathology**
Study of magnetic resonance imaging pathology used with the majority of pulse sequences. Emphasis on the investigation of metastatic and benign tumors as well as structural anomalies.
Credits: 3
Prerequisites: CMI 331.

**CMI 350 - Ultrasound Physics and Instrumentation**
Principles of acoustical physics, Doppler ultrasound, and ultrasound instrumentation.
Credits: 4
Prerequisites: PHYS 151, PHYS 152
CMI 351 - Abdominal Ultrasound
Recognition and identification of the sonographic appearance of normal anatomical structures, disease processes, pathology, and pathophysiology of the abdomen.
Credits: 4
Prerequisites: BIOL 223, BIOL 224

CMI 352 - Obstetric Ultrasound
Recognition and identification of the sonographic appearance of normal maternal, embryonic, and fetal anatomical structures and obstetric disease processes, pathology, and pathophysiology.
Credits: 3
Prerequisites: BIOL 223, BIOL 224

CMI 353 - Gynecologic Ultrasound
Recognition and identification of the sonographic appearance of normal anatomical structures of the female pelvis and gynecological disease processes, pathology, and pathophysiology.
Credits: 3
Prerequisites: BIOL 223, BIOL 224

CMI 354 - Vascular Ultrasound
Recognition and identification of the sonographic appearance of normal appearance of normal anatomical structures, disease processes, pathology, pathophysiology and hemodynamics of the peripheral vascular system and carotid arteries.
Credits: 3
Prerequisites: BIOL 223, BIOL 224

CMI 355 - Ultrasound Practicum
To recognize and utilize the functions of Ultrasound equipment and demonstrate knowledge of Ultrasound scanning protocols when performing scans on patients.
Credits: 3
Prerequisites: CMI 350.
Notes: S/F grading only.

CMI 360 - Principles of Computed Tomography
Study of physics, techniques, and procedures that produce radiographic images of human structures using computed tomography.
Credits: 3
Prerequisites: PHYS 151 and RAD 100.

CMI 361 - Computed Tomography Pathology
Trauma, body, and skeletal pathology as viewed by computed tomography (CT) investigated. New applications such as quantitative CT, spiral scanning, and CT angiography addressed.
Credits: 3
Prerequisites: CMI 360.

CMI 376 - Sectional Anatomy in Medical Imaging
Transverse, coronal, and sagittal anatomy of the head, neck, thorax, abdomen, pelvis, and extremities. Areas of discussion include: skeletal, muscular, circulatory, nervous, lymphatic, and visceral anatomic relationships.
Credits: 3
Prerequisites: BIOL 224.

CMI 479 - Advanced Topics and Management
Examination of recent trends, research, and technological advances in medical imaging and the health care environment. Various administrative aspects of a medical imaging facility. Explores the humanistic, ethical, legal, and professional considerations of medical care.
Credits: 3
Prerequisites: Formal admission to the CMI or NUC program, CMI 310.

CMI 481 - Digital Data Management
Processing and management of digital data obtained from medical diagnostic equipment. Topics include special imaging domains, k-space mapping and filling, Fourier transformation, maximum intensity projection, multiplanar and 3-D reconstruction, and quality assurance/management.
Credits: 3
Prerequisites: CMI 331 or CMI 360.
CMI 485 - Imaging Case Reviews
Comprehensive case review of diagnostic imaging studies from multiple modalities. Presentations focus on individual case histories, techniques, pathology, and review of current literature.
Credits: 1
Prerequisites: Consent of instructor.
May be repeated to a maximum of two credits.

CMI 490 - Comprehensive Medical Imaging Clinical Education
Clinical applications of instrumentation, quality control, patient care, and performance of diagnostic imaging procedures.
Credits: 3
Prerequisites: Consent of department.
Notes: S/F grading only.
May be repeated to a maximum of 15 credits.

Health Physics Major (BS)

Health Physics Major - Bachelor of Science (BS)
Please see the UNLV School of Allied Health Sciences, Department of Health Physics and Diagnostic Sciences, web page at http://healthphysics.unlv.edu/health-physics.html for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-health-physics.

Please see advising information at the UNLV School of Allied Health Sciences Advising at alliedhealth.unlv.edu/advising.htm

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Knowledge of the basic health physics sciences.
2. Knowledge of the theoretical aspects of health physics.
3. Familiarity with the practical applications of health physics.
5. Competency in communicating technical information in written and oral form.
6. Knowledge of basic principles of radiation science and safety.
7. Knowledge of the chemical and biological effects of radiation.
8. Obtain a strong foundation in math and the basic sciences.
9. Familiarity with basic computer programming skills
10. (10) Familiarity with statistics of relevance to the field of health physics.

University Graduation Requirements
- Please see Graduation Policies for complete information

Health Physics Requirements - Total: 120 Credits

Health Physics is the profession devoted to protection of the individual, population, and environment from the potentially harmful effect of ionizing and nonionizing radiation. The Health Physics program at UNLV is designed to train students for entry-level positions in health physics. Graduates also meet many of the prerequisites required for postgraduate studies in areas such as health physics, radiation therapy, pharmacy or medicine. The specific program objectives are that, upon graduation, the graduate should:

1. Apply theoretical and practical health physics in the workplace.
2. Demonstrate an understanding of the research process and its relationship to current and future health physics activities.
3. Continue to acquire knowledge and experiences requisite to assuming a leadership role in the health physics profession.
4. Function collaboratively with members of the health physics community and representatives from related health and safety professions.
5. Have a solid academic foundation for graduate study.
6. Conduct themselves in an ethical and professional manner.

General Education Requirements - Subtotal: 37-38 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Total Credits: 4
- MATH 181 - Calculus I

Distribution Requirement Life and Physical Sciences and Analytical Thinking

Please see Distribution Requirements for more information.
- Humanities and Fine Arts - Credits: 9
  - Two courses from two different areas - 6 credits
  - One course in Fine Arts - 3 credits
- Social Science - Credits: 9
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking
  - Automatically satisfied by Major requirements

Major Requirements - BS in Health Physics - Subtotal: 83 Credits

Mathematics - Credits: 4
- MATH 182 - Calculus II

Biology - Credits: 12
- BIOL 196 - Principles of Modern Biology I
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II

Chemistry - Credits: 8
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II

Physics - Credits: 12
- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Health Physics - Credits: 26
- HPS 300 - Physics of Ionizing Radiation
- HPS 301 - Principles of Health Physics
- HPS 402 - Radiation Detection

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students
- HPS 403 - Radiation Physics and Instrumentation Laboratory
- HPS 411 - Health Physics Seminar (see note 1 below)
- HPS 416 - Advanced Health Physics
- HPS 420 - Radiation Biology
- HPS 470 - Environmental Health Physics and
- HPS 495 - Health Physics Research

Science, Math or Engineering Electives - Credits: 21
- STAT 491 - Statistics for Scientists I
- CS 117 - Programming for Scientists and Engineers

Additional Electives (must be approved by the student’s advisor)

Total Credits: 120

Major Requirements - BS in Health Physics - Preprofessional Concentration - Subtotal: 83 Credits

Mathematics - Credits: 4
- MATH 182 - Calculus II

Biology - Credits: 16
- BIOL 196 - Principles of Modern Biology I
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II and
- BIOL 251 - General Microbiology

Chemistry - Credits: 16
- CHEM 121A - General Chemistry I
- CHEM 122A - General Chemistry II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II

Physics - Credits: 12
- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I

- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Health Physics - Credits: 26
- HPS 300 - Physics of Ionizing Radiation
- HPS 301 - Principles of Health Physics
- HPS 402 - Radiation Detection
- HPS 403 - Radiation Physics and Instrumentation Laboratory
- HPS 411 - Health Physics Seminar (must be taken for four semesters)
- HPS 416 - Advanced Health Physics
- HPS 420 - Radiation Biology
- HPS 470 - Environmental Health Physics and
- HPS 495 - Health Physics Research (1 credit)

Science, Math or Engineering Electives - Credits: 9
- STAT 491 - Statistics for Scientists I
- CS 117 - Programming for Scientists and Engineers
- CHEM 474 - Biochemistry I

Total Credits: 120

Notes

1. HPS 411, must be taken for four semesters.
2. Every student must complete a three-credit multicultural course and a three-credit international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
**Health Physics**

**HPS 102 - Radiation Science**  
(Same as RAD 102 - Radiation Science.) Principles of radiation science and safety including interactions of radiation with matter, radiation quantities and protection standards, dosimetry, radioactive decay, and biological effects of radiation.  
Credits: 3  
Prerequisites: MATH 124.

**HPS 210 - Fundamentals of Radiation Protection Technology**  
Radiation protection technology practices and regulations associated with DOE and NRC facilities. Topics include the types, sources and interactions of radiation, radiation surveys and inspections, emergency preparedness, biological effects of radiation, and radiation terminology and units. Calibration and use of radiation detectors and dosimeters also examined.  
Credits: 2  
Prerequisites: MATH 124.

**HPS 300 - Physics of Ionizing Radiation**  
Atomic and nuclear structure, basic quantum theory, radioactivity and decay kinetics, charged-particle interactions, photon interactions, neutron interactions, and sources of ionizing radiation.  
Credits: 3  
Prerequisites: CHEM 121A and CHEM 121L, PHYS 181.

**HPS 301 - Principles of Health Physics**  
Health physics as it pertains to medicine, industry, and the government. Topics include: radiation terms, quantities and units, radiation protection standards, radiation safety and protection, radiation biology, and regulations.  
Credits: 3  
Prerequisites: HPS 300.

**HPS 402 - Radiation Detection**  
Credits: 3  
Prerequisites: HPS 300.  
Notes: This course is crosslisted with HPS 602. Credit at the 600-level requires additional work.

**HPS 403 - Radiation Physics and Instrumentation Laboratory**  
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.  
Credits: 3  
Corequisites: HPS 402.  
Prerequisites: HPS 300  
Notes: This course is crosslisted with HPS 603. Credit at the 600-level requires additional work.

**HPS 411 - Health Physics Seminar**  
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.  
Credits: 1  
May be repeated to a maximum of four credits.

**HPS 416 - Advanced Health Physics**  
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.  
Credits: 3  
Prerequisites: HPS 301, 402 and 420.  
Notes: This course is crosslisted with HPS 616. Credit at the 600-level requires additional work.
HPS 420 - Radiation Biology
Radiation biochemistry, radiation effects on cellular structure and function, organs and systems, organisms, and populations. Discussions include target theory, direct and indirect effects, cell survival kinetics, prompt effects including acute radiation syndrome, delayed effects, and dose-effect relationships.
Credits: 3
Prerequisites: BIOL 189 or BIOL 224, and RAD 102 /HPS 102 or HPS 300.

HPS 470 - Environmental Health Physics
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.
Credits: 3
Corequisites: HPS 301.
Prerequisites: MATH 182.
Notes: This course is crosslisted with HPS 670.
Credit at the 600-level requires additional work.

HPS 475 - Medical Health Physics
Role and responsibility of the health physicist in the medical environment. Prepares the student to support medical procedures using radioactivity to ensure compliance with state and federal standards.
Credits: 3
Prerequisites: HPS 301.

HPS 491 - Health Physics Internship
Students apply knowledge of the bio-physical sciences and health physics to practical situations through an internship with practicing local radiation safety officers. Settings could include public or proprietary organizations depending upon the interest of the individual student.
Credits: 3
Prerequisites: HPS 301.

HPS 495 - Health Physics Research
Participation in a research project in radiation science selected by faculty and students to demonstrate research potential in the field. Project may be conducted at a radiation laboratory, clinic, hospital or at the university.
Credits: 1-6
Prerequisites: HPS 301.
May be repeated to a maximum of six credits.

HPS 499 - Directed Study
Directed study of selected health physics problems, including individual research, on related topics.
Topic selected by student and approved by faculty.
Credits: 1-3
Prerequisites: Consent of instructor.

Nuclear Medicine Major

Nuclear Medicine Major - Bachelor of Science (BS)
Please see the Nuclear Medicine web page at healthphysics.unlv.edu/nuclear-medicine.html for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-nuclear-medicine.

Please see advising information at the Public Health Undergraduate Advising at alliedhealth.unlv.edu/advising.htm.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Program - The Joint Review Committee on Educational Programs in Nuclear Medicine Technology jrcnmt.org/

Learning Outcomes
Nuclear medicine is the medical specialty that utilizes radioactive materials to make diagnostic evaluations of the anatomic and/or physiologic
conditions of the body and provides therapy with unsealed radioactive sources. The nuclear medicine program at UNLV is designed to train students for entry-level positions in nuclear medicine. Additionally, graduates will meet many of the prerequisites required for post-graduate studies in health related areas. The specific program objectives are, that upon graduation, the graduate should:

1. Apply theoretical and practical applications of nuclear medicine in the workplace.
2. Find gainful employment locally, or regionally, as a staff or chief technologist.
3. Continue to acquire knowledge and experiences requisite to assuming a leadership role in the field of nuclear medicine.
4. Have learned many diverse aspects of nuclear medicine from routine to experimental through a wide range of clinical experiences.
5. Successfully write a national registry examination in nuclear medicine.
6. Have a sound academic foundation for graduate study.
7. Conduct themselves in an ethical and professional manner.

**University Graduation Requirements**
- Please see Graduation Policies for complete information

Nuclear Medicine Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 38-39 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 5
- MATH 128 - Precalculus and Trigonometry

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 credits**
  - Two courses 3 credits each from two different humanities areas – 6 credits
  - One course in fine arts – 3 credits.

- **Social Sciences: 9 credits**
  - One course each from three different fields

- **Life and Physical Sciences and Analytical Thinking:**
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.

Major Requirements - BS in Nuclear Medicine - Subtotal: 79-81 Credits

- **Computer Science - Credits: 3**
- **Statistics - Credits: 3**

- **Sciences - Credits: 24**
  - BIOL 189 - Fundamentals of Life Science
  - BIOL 223 - Human Anatomy and Physiology I
  - BIOL 224 - Human Anatomy and Physiology II
  - CHEM 121A - General Chemistry I
Radiography Certificate

Program Requirements

English Composition/Literature - Total Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Mathematics - Total Credits: 3
- MATH 124 - College Algebra
- or
- MATH 126 - Pre calculus I

Computer Science - Total Credits: 3
- CS 115 or equivalent

Sciences - Total Credits: 12
- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II

Radiography Courses - Total Credits: 49
- RAD 100 - Introduction to Medical Imaging
- RAD 102 - Radiation Science
- RAD 117 - Patient Care in Medical Imaging and Radiation Therapy
- RAD 330 - Radiography Clinical Education I
- RAD 350 - Physics of X-Ray Production Laboratory
- RAD 351 - Physics of X-Ray Production Laboratory
- RAD 370 - Radiographic Procedures I
- RAD 371 - Radiographic Procedures Skill Laboratory I
- RAD 372 - Radiographic Procedures II
- RAD 373 - Radiographic Procedures Skills Laboratory II
- RAD 331 - Radiography Clinical Education II
- RAD 332 - Radiography Clinical Education III
- RAD 333 - Radiography Clinical Education IV
- RAD 334 - Radiography Clinical Education V
- RAD 354 - Radiographic Quality Assurance and Techniques
- RAD 474 - Radiographic and Special Imaging Pathology

Total Credits: 73
**NUC 300 - Introduction to Nuclear Medicine Imaging**
Introduction to nuclear medicine imaging with an emphasis on medical terminology, ethics and related aspects of medical imaging, including computed tomography (CT).
Credits: 3
Prerequisites: HPS 102, RAD 117, BIOL 189, BIOL 223, BIOL 224, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, PHYS 151, MATH 128, must be fully accepted as a student in the Nuclear Medicine Program.

**NUC 315 - Nuclear Medicine Instrumentation**
Principles and application of radiation detection equipment and instrumentation employed in nuclear medicine procedures. Theory and laboratory application of the quality control procedures specific to each instrument. Laboratory application of imaging parameters, patient positioning, views and venipuncture techniques.
Credits: 4
Prerequisites: RAD 100 and formal program admission.

**NUC 320 - Radiopharmaceuticals**
Production, distribution, dose preparation, and imaging of radioactive tracers in medicine. Rationale of radiopharmaceutical choice and practical implications of radionuclide characteristics. Laboratory procedures including: handling of radionuclides, use of common equipment, radiopharmaceutical preparation, and aseptic technique.
Credits: 4
Prerequisites: NUC 315 and NUC 350.

**NUC 350 - Nuclear Medicine Procedures I**
Preparation and performance of planar and SPECT nuclear medicine imaging procedures. Incorporation of all information necessary to perform liver, spleen, hepatobiliary, gastric reflux, Meckel's diverticulum, gastrointestinal bleeds, lung and skeletal imaging and/or functional studies. Use and principles of automated processing and various film types.
Credits: 3
Prerequisites: RAD 100 and formal program acceptance.

**NUC 360 - Nuclear Medicine Procedures Laboratory**
Application of routine Nuclear Medicine imaging procedures including acquisition, processing, display, and analysis of data. Verbal communication and patient positioning relative to gastrointestinal, pulmonary, and skeletal studies will be emphasized.
Credits: 1
Corequisites: Concurrent enrollment in NUC 350.

**NUC 387 - Nuclear Cardiology and EGG Interpretation**
Theory and principles of nuclear medicine cardiac imaging. Includes comprehensive examination of cardiovascular terminology and pathology and computer analysis. EGG interpretation and comprehension of life-threatening and dangerous cardiac rhythms.
Credits: 3
Prerequisites: NUC 350.

**NUC 450 - Nuclear Medicine Procedures II**
Survey of in vivo nuclear medicine procedures and pathology related to the endocrine, ureterogenital, central nervous system, tumor/inflammatory, and bone marrow imaging. Principles of sensitivity, specificity, accuracy, and predictive values of diagnostic testing.
Credits: 3
Prerequisites: NUC 350.

**NUC 480 - Positron Emission Computerized Tomography (PET)**
Presents the principles of PET imaging, including: instrumentation, quality control, reimbursement, radiation safety, procedures and diagnostic
assessment in the areas of oncology, neurology and cardiology. Exploration of future trends also discussed.
Credits: 3
Prerequisites: NUC 450.

**NUC 494 - Advanced Practice in Nuclear Medicine**
Examination of Nuclear Medicine Laboratory accreditation processes and state and federal regulatory guides for the preparation of a radioactive materials' application. Advanced practical application of PET/CT, SPECT/CT, and PET/MRI imaging.
Credits: 1-3
Corequisites: NUC 480.

**RAD 100 - Introduction to Medical Imaging**
Medical imaging in radiography, ultrasound, CT, MRI, nuclear medicine and angiography. Emphasis on medical terminology, medical ethics, jurisprudence, professional organizations, radiation protection, and medical terminology.
Credits: 3

**RAD 102 - Radiation Science**
(Same as HPS 102.) Principles of radiation science and safety including interactions of radiation with matter, radiation quantities and protection standards, dosimetry, radioactive decay, and biological effects of radiation.
Credits: 3
Prerequisites: MATH 124.

**RAD 117 - Patient Care in Medical Imaging and Radiation Therapy**
Patient care practices in medical imaging, including ethical, legal, professional and administrative issues. Demonstrates specific patient care techniques.
Credits: 3

**RAD 330 - Radiography Clinical Education I**
Clinical practicum providing experience in patient care, film processing and management, legal and administrative responsibilities, and radiography of the thorax, and abdomen. Includes introduction to radiography of the skeleton.
Credits: 1-3
Prerequisites: RAD 100, RAD 117, RAD 350, RAD 370, RAD 371 as well as formal admission to the radiography program.
Notes: S/F grading only.

**RAD 331 - Radiography Clinical Education II**
Continued clinical practicum providing experience in radiography.
Credits: 3 or 6
Prerequisites: RAD 330, RAD 372, RAD 354.
Notes: S/F grading only.
May be repeated to a maximum of six credits.

**RAD 332 - Radiography Clinical Education III**
Continued clinical practicum providing experience in radiography including fluoroscopy of the digestive tract
Credits: 1-3
Prerequisites: RAD 331.
Notes: S/F grading only.

**RAD 333 - Radiography Clinical Education IV**
Continued clinical practicum providing experience in radiography including the cervical spine.
Credits: 1-3
Prerequisites: RAD 332.
Notes: S/F grading only.

**RAD 334 - Radiography Clinical Education V**
Continued clinical practicum providing experience in radiography including operating room imaging.
Credits: 3-6
Prerequisites: RAD 332.
May be repeated to a maximum of six credits.

**RAD 350 - Physics of X-Ray Production**
Study of x-ray machinery including the x-ray tube, transformers, rectifiers, and circuits. There is an emphasis on the theory of x-ray production including the factors which contribute to image resolution.
Credits: 3
Prerequisites: MATH 124.

**RAD 351 - Physics of X-Ray Production Laboratory**
Three-hour laboratory courses with experiments on magnetism, electromagnetism, x-ray circuitry, image resolution and processing factors. To be taken concurrently with RAD 350.
Credits: 1
Corequisites: RAD 350.

**RAD 354 - Radiographic Quality Assurance and Techniques**
Detailed study of the factors contributing to image quality. Explanation of the various quality assurance tests used for radiographic equipment to maintain consistency in image quality.
Credits: 3
Corequisites: RAD 350.

**RAD 370 - Radiographic Procedures I**
Study of radiographic terminology related to body mechanics and positioning. Introduction to factors relating to image quality and radiation protection. Anatomical study of and radiographic positioning parameters of the appendicular skeleton, thoracic and abdominal viscera, as well as the digestive tract. Introduction to factors affecting film quality and radiation protection. Lectures include radiographic positioning and anatomy of the extremities including the shoulder and pelvic girdles and the thoracic viscera and digestive tract.
Credits: 3
Prerequisites: BIOL 189, BIOL 223, BIOL 224. Formal admission to the radiography program.

**RAD 371 - Radiographic Procedures Skill Laboratory I**
Introduction to exposure factors relating to image quality through phantom radiography. Peer positioning of the appendicular skeleton, thoracic and abdominal viscera, as well as the digestive tract. Analysis of film critique and anatomy recognition. Must be taken concurrently with RAD 370.

Credits: 1
Prerequisites: Formal admission to the radiography program.
Notes: Must be taken concurrently with RAD 370.

**RAD 372 - Radiographic Procedures II**
Study of iodinated contrast use and adverse effects. Anatomical study, radiographic positioning and procedures related to the urinary and biliary system. Anatomical study and radiographic positioning parameters related to the bony thorax, vertebral column, cranium, and facial bones. Introduction to advances modalities including CT, MRI, Mammography, and Interventional Radiology.
Credits: 3
Prerequisites: RAD 100, RAD 117, RAD 350, RAD 370.

**RAD 373 - Radiographic Procedures Skills Laboratory II**
Peer radiographic positioning of the urinary system, vertebral column, cranium, and facial bones. Practical application of C-arm operation. Analysis of film critique and anatomy recognition.
Credits: 1
Prerequisites: RAD 370 and RAD 371.
Notes: Must be taken concurrently with RAD 372.

**RAD 474 - Radiographic and Special Imaging Pathology**
Recognition of radiographic and special imaging pathology such as those seen on CT and MRI with an emphasis on etiology. Pathology subjects include skeletal, neuro, thoracic and abdominal viscera. Multiple radiologist lectures augment the textbook study of various pathological situations.
Credits: 3
Prerequisites: RAD 332.

**RAD 483 - Principles of Advanced Imaging**
Introduction to some of the advanced modalities available in radiology. Modalities include CT, MRI, Interventional Radiology, and Radiation Therapy. Topics for each modality will include patient care, instrumentation, image processing, and
application.
Credits: 3
Prerequisites: RAD 432, and CMI 376. Formal admission to the radiography program.

**RAD 484 - Principles of Digital Imaging**
Detailed study of the production of digital radiographic images. Includes demonstration of equipment and proper utilization with an emphasis on radiation protection.
Credits: 3
Prerequisites: RAD 432, and CMI 376. Formal admission to the radiography program.

**RAD 486* - Ethics and Medical Law in Radiology**
Lectures and classroom discussion on laws associated with medical imaging. Topics include liability, HIPPA, and malpractice. In addition, discussions about various scenarios which can challenge the ethical code for radiographers and how these scenarios should be handled.
Credits: 3
Prerequisites: RAD 432 and formal admission to the radiography program.

**RAD 490 - Independent Study in Radiography**
Independent study and/or research in radiography or a related area.
Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

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**Kinesiology and Nutrition Sciences**

**Purpose and Focus**
The Bachelor of Science degrees offered by the Department of Kinesiology and Nutrition Sciences include courses of study in three major areas: Athletic Training, Kinesiology, and Nutrition Sciences. Students choosing to major in Athletic Training or Kinesiology pursue the study of human movement and performance in the context of both basic and applied science. They have the opportunity to explore the physiological, biomechanical, and social-psychological aspects of human movement and performance. Students majoring in Nutrition Sciences complete coursework in the areas of basic sciences, human nutrition, and clinical dietetics. Students majoring in Nutrition Sciences have the opportunity to earn the Registered Dietitian Credential. The degree programs are designed to integrate theory and practice to prepare the student for the application of the principles in public and private agencies as well as to prepare the student for advanced study in the field of Kinesiology and Nutrition Sciences.

**Undergraduate Majors**
Athletic Training
Kinesiology
Nutrition Sciences

**Graduation Requirements**
A minimum of 120 credit hours is required for graduation with 60 credits earned at a four-year institution. Students are required to complete all university core requirements for the baccalaureate degree. Graduates of baccalaureate degree programs from accredited colleges or universities who are seeking second baccalaureate degrees may need to fulfill some additional core education requirements.
Advisement
Newly admitted students are assigned by the Office of the Registrar & Admissions to the Division of Health Sciences Advising Center for advisement and counseling. Students should meet with their advisor each semester. The advisor will assist the student in course selection and program advancement. Students will be made aware of other student services provided on campus as the need arises.

Department Policies
Progress Toward a Degree
Full-time students are considered to be making progress towards a degree if they maintain a minimum enrollment of 12 credit hours in courses that apply toward their degree program. In addition, students must enroll in at least one required major course (KIN or SIM, or ATT, or NUTR prefix) each term in which they are enrolled until all of their major course requirements are completed. Failure to maintain minimum progress toward a degree may result in the student being placed on probation and may ultimately lead to suspension.

Probationary Status
Students admitted on probationary status will be required to complete and sign a mandatory two-semester advisement contract prior to registering for any classes. During these two semesters, probationary students will be required to complete a minimum of 12 credits in their degree program as designated by the department. Credits earned in summer session may be applied toward the 12 credits. Probationary students must achieve at least a 2.50 GPA in each of the two semesters. A review of the student's academic work will be conducted at the end of the first semester. Failure to achieve the minimum GPA may result in suspension. Extensions, amendments, or appeals of mandatory advising contracts will be made on a case-by-case basis with the recommendation of the department chair and the approval of the school Academic Standards Committee. Athletic Training majors may be placed on probationary status for either academic or behavioral reasons and will need to complete the probationary program as outlined in the ATEP student manual each student receives upon official acceptance into the program.

Any student who does not have an overall UNLV GPA of 2.50 or higher at the end of a given semester will be placed on probation for the next semester. Any student whose UNLV GPA falls below 2.00 or who shows a negative grade point balance of -1.00 to -14.90 will be placed on both school and university probation. Failure to earn a GPA of 2.50 or higher in each of two successive semesters may lead to department suspension. The department will suspend a student in accordance with the university suspension policy if the UNLV grade point balance falls to 15.00 or below after the student has received a probation warning.

Program Descriptions
Athletic Training
The Bachelor of Science degree in Athletic Training is designed for students interested in the treatment and prevention of athletic injuries. Students majoring in Athletic Training will follow a curriculum accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The Athletic Training Education program (ATEP) at UNLV is a rigorous and intense program that places specific requirements and demands on the students enrolled in it. In addition to completing core courses in kinesiology and the university general education requirements, students will complete course work in basic and advanced athletic training, therapeutic exercise and modalities, evaluation and rehabilitation of upper and lower extremities, and other athletic training-related topics. Successful completion of the curriculum prepares and qualifies the student to take the certification examination offered by the Board of Certification (BOC). In addition to classroom preparation, clinical experience is required. Athletic training majors must complete
the five semesters of clinical experience which could be either at UNLV or in a local high school. Each student is assigned to an approved clinical instructor (ACI) for a minimum of 200 hours per semester during the final four semesters of the program.

The successful student must be willing to make the personal sacrifice and commitment to spending many hours working on educational competencies over the five semesters they are in the program. Upper-division students are assigned to an approved clinical instructor at UNLV or at a local high school, and each is responsible for assisting a clinical instructor in the medical care of student athletes.

There are several areas of employment for the certified athletic trainer, including professional and collegiate sports programs, high school sports, sports medicine clinics, private and/or hospital physical therapy clinics, and corporate and industrial settings. The Athletic Training degree program is competitive, and students must maintain a 2.75 cumulative GPA to remain in the Athletic Training major. For further information, students are encouraged to consult www.unlv.edu/athletics/training. Students interested in applying should contact Tedd Girouard the Athletic Training Program Director at tedd.girouard@unlv.edu, phone 702-895-2457.

The technical standards set forth by the ATEP establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level Athletic Trainer, as well as meet the expectations of the program’s accrediting agency (CAATE). The following abilities and expectations must be met by all students admitted to the Athletic Training Educational Program. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program.

Compliance with the program’s technical standards does not guarantee a student’s eligibility for the national BOC exam.

Candidates for selection to the Athletic Training Educational Program at UNLV must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts, and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
- Sufficient postural and neuromuscular control, sensory function and coordination to perform appropriate physical examinations using accepted techniques and to accurately, safely, and efficiently use equipment and materials during the assessment and treatment of patients.
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice.
- The ability to record the physical examination results and a treatment plan clearly and accurately.
- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced. This includes reporting to campus on or about August 1 each year for orientation and to begin clinical experience (may include work during early mornings, late evenings, weekends and time outside of the academic calendar).
• Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations.
• Effective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Admission to the Major
Athletic Training: GPA 2.75
Students must maintain a 2.75 cumulative GPA during their five-semester program.

Athletic Training Majors
The application process for the Athletic Training Educational Program takes place only during the fall semester. The application process for admission into the program is competitive, and merely completing the application process does not guarantee admission into the program. A maximum number of students will be accepted each year. To be eligible for admission to the Athletic Training Education Program, students must:

• Have successfully completed or be currently enrolled in SIM 101, Introduction to Athletic Training
  (or equivalent) and Anatomy (i.e., BIOL 223, KIN 245, or equivalent). Each class must be completed with
  a passing grade to be admitted into the program.
• Have a UNLV cumulative GPA of 2.75 or higher.
• Attend the clinical orientation meeting during the third week of fall semester to obtain information regarding
  the clinical application process and to set up an observation schedule in the UNLV athletic training facility. The
  actual date, time, and location will be available from the program director the first week of fall semester. All
  application materials will be provided at the orientation meeting.
• Complete 25 hours of observation in the UNLV athletic training facilities during the five-week observation period.
• Have two recommendation forms completed. The UNLV athletic training faculty and staff may not complete these forms.
• Complete and turn in application and recommendation forms to the program director by the posted deadline.
• Pass the written entrance examination in November. A passing grade is 70 percent or higher.

An application committee consisting of three to five clinical faculty and staff will score applications and interviews. The top 20 students will be invited for an interview with the athletic training faculty and staff. Selection for interviews will be based on GPA, written exam scores, and an application score (determined from letters of recommendation, previous clinical experience, and essays included in the application). Each of the three components will be scored on a scale of 100, and the sum total will be used to rank candidates. The interview will be scored on a scale of 100 and will be added to the average score from the three criteria listed above. (This total score will be accepted into the Clinical Athletic Training Educational Program, which begins January of the following year. The remaining eight students will be alternates for the program). Students accepted into the program are required to declare Athletic Training as their major.

Athletic Training Majors
Transfer students must contact the Athletic Training Education Program Director prior to the beginning of the summer session to initiate a transfer into the program. Transfer students are accepted only during the summer session. Students may transfer to UNLV in the spring, summer or fall. Being accepted by the university does NOT automatically guarantee acceptance into the ATEP. A transfer student must apply for entry into the Athletic Training Education Program. There are two distinct methods of application to the UNLV ATEP and a transfer student can choose either if they meet the minimum qualifications of the method chosen.
Fall Application
The preferred method for students who want to transfer to UNLV and obtain a Bachelor of Science in Athletic Training degree would be to initiate the application process in the fall semester of the school year. The student must meet the prerequisites, which include:

1. completing the application, essays, and reference letters,
2. performing 25 hours of observation,
3. passing the entrance exam, and
4. completing an on campus interview,
5. completing the required coursework as outlined (SIM 101 and anatomy) and maintain an overall 2.75 grade point average.

The transfer student is eligible to complete the fall application process and if accepted, must start with the spring semester cohort. If the transfer student cannot document that they have been supervised by an ATC as an athletic training student for a minimum of 250 hours at the community college or university level prior to applying, they must follow the above outlined application procedure.

Spring / Summer Application
The second method for the transfer student to enter the UNLV ATEP requires the documentation of a minimum of 250 contact hours directly supervised by an ATC at the community college, junior college, or university setting. If this requirement is met, the prospective transfer student must contact the Athletic Training Education Program Director to determine if there is room available in the cohort. By initiating the application process in the spring a student would be requesting a fall semester start in the UNLV ATEP. If there is space available in the UNLV ATEP, then the prospective transfer student must complete the following to be eligible for entry:

1. Apply for and be formally admitted to the University of Nevada Las Vegas
   - Check the university deadlines for application and registration of classes.
   - Meet with the School of Integrated Health Sciences advisor to clarify all transfer course work.
2. Submit the UNLV ATEP application as posted on the web site to the program director no later than April 1
3. Successfully complete an on-site interview
4. Receive tentative approval from the Program Director for fall entry.

Once these steps have been completed the transfer student must complete the following courses, at UNLV, the summer prior to the fall entry requested.
SIM 101 Introduction to AT (3 credits)
(Upon passing this class with a 'C' or better an additional 100 point cumulative exam must be taken. A 70% passing grade is required to complete the application process)
SIM 102 Introduction to AT Clinical (1 credit)
(Students will be required to participate as an athletic training student during football camp in August)
SIM 150 Management of Sport Trauma/Illness (3 credits)
SIM 201 Exercise and Sport Injury (3 credits)
KIN 245 Anatomical Kinesiology (3 credits)

By completing the above courses and requirements with a minimum UNLV GPA of 2.75, a student would arrive at UNLV during the summer session. The courses taken during the summer session would constitute the 1st of the required 5 semesters. The successful student would then be starting the fall semester with the same background as the other students in their cohort.

Unsuccessful Candidates
If a student attempts one of the ATEP entry methods and is unsuccessful, the student can continue to take courses as a Kinesiology major (in one of two academic tracks) and can re-apply to
the ATEP in a subsequent fall semester. Students will be encouraged to continue in the Kinesiology major and complete their degree program possibly with a double major in Kinesiology and Athletic Training (assuming they are successful in entering the ATEP in a subsequent year).

**Kinesiology Majors**

**Kinesiology — Allied Health**
The Allied Health specialization option provides education and training for students who wish to prepare for advanced study in medicine, physical therapy, or other health or allied health fields.

**Kinesiology — Comprehensive**
The Comprehensive Specialization option provides students the opportunity to pursue basic and applied studies of the physiological, biomechanical, social-psychological aspects of human movement and performance education and training in the implementation and direction of physical fitness and conditioning programs in both the public and private sectors.

**Admission to the Major**

**Admission Policies**

Students must meet the School of Integrated Health Sciences minimum GPA requirement of 2.50 for admission into the department. A student with less than a 2.50 GPA may be admitted as a probationary student with the approval of the chair and/or the faculty.

**Transfer Policies**

Transfer students must meet the School of Integrated Health Sciences minimum GPA requirement of 2.50 for admission into the department. Students wishing to transfer credit toward a Bachelor of Science degree in Kinesiology must schedule a formal meeting with a departmental faculty representative or the department chairperson.

**Nutrition Sciences**

The Bachelor of Science in Nutrition Sciences degree is designed to prepare students with an interest in human nutrition to enter the health care field. Programs within Nutrition Sciences are student-focused with contact hours provided through lecture-based courses, laboratory courses, and field experiences with practitioners. Summer and part-time work or volunteer experiences in the profession are encouraged. Students have three concentration areas to choose from in Nutrition Sciences: (1) Dietetics (2) Sports Nutrition and (3) Pre-Professional studies. In addition to these concentrated areas of study, students may select from a number of nutrition specialty courses to further individualize their education.

**Programs**

**Didactic Program in Dietetics (DPD)**

Students pursuing the Registered Dietitian (RD) credential need to fulfill the requirements of the DPD. Students can simultaneously fulfill the degree requirements in Nutrition Sciences and the DPD requirements. The DPD was granted Initial Accreditation by The Accreditation Council for Education in Nutrition and Dietetics (ACEND) of The Academy of Nutrition and Dietetics in 2005. The contact information for ACEND is listed below.

**ACEND**

120 S. Riverside Plaza, Suite 2000
Chicago, IL 60606-6995
Phone: 312-899-0040, ext. 5400
E-mail: education@eatright.org
Website: http://www.eatright.org/acend

In order to become a Registered Dietitian (RD) a student must:

1. Earn the B.S. degree in Nutrition Sciences.
2. Complete the DPD course requirements.
3. Apply for, become accepted into, and complete an ACEND-Accredited Dietetic Internship.
4. Pass the National Registration Examination for Dietitians.

Nutrition Sciences Concentrations

1. **Dietetics:** This general program prepares students for traditional positions in health care that utilize knowledge of nutrition for health promotion and wellness, disease prevention, knowledge of medical nutrition therapy, and the ability to educate clients and patients. Students completing this program meet the minimum academic requirements for the Didactic Program in Dietetics.

2. **Sports Nutrition:** This concentration is for students who have a combined interest in nutrition and exercise sciences. Students completing this program meet the minimum academic requirements for the Didactic Program in Dietetics.

3. **Preprofessional:** This area of specialization provides an excellent and well-rounded background for those interested in applying for graduate schools in nutrition-related fields and professional schools. Students completing this program do not meet the minimum academic requirements for the Didactic Program in Dietetics. Students may elect to complete the additional courses needed to fulfill the Didactic Program in Dietetics requirements.

Program Objectives

Programs within the Department of Nutrition Sciences will:

1. Be student-focused. Experienced dietetics professionals will assist students with the acquisition of a strong foundation, knowledge base, and clinical skills and will facilitate students’ integration of this knowledge into the practice setting.

2. Include a solid curriculum for entry-level practice in nutrition and dietetics.


4. Foster leadership skills through faculty mentors and professional membership participation.

5. Encourage students to assume the responsibility for lifelong learning and continued professional development.

6. Allow for creativity and flexibility as the profession of dietetics evolves.

Admission to the Major

**Minimum GPA: 2.75**

Admission Policies

To be admitted into the major, students must complete the following admission requirements:

1. A cumulative high school GPA of 2.75 or higher, or

2. A cumulative GPA of 2.75 or higher in 30 transfer credits accepted by UNLV, or

3. A minimum of 24 semester credits in the core foundation courses with a minimum grade point average of 2.75.

4. Completion of an advising interview with a Division of Health Sciences academic advisor.

Transfer Policies

Students must meet a minimum GPA of 2.75 to transfer into the nutrition sciences major. Transfer students from an accredited institution may be granted up to 64 credits for equivalent prerequisite course work from prior programs. Course work is judged by curriculum content, not credit equivalency. Transfer students from community colleges must complete a minimum of 38 credits in upper-division courses for graduation.

Academic Policies

Upon admission to the sciences major, students must maintain a minimum cumulative GPA of 2.75 each semester and have no grade less than a C in all NUTR, FAB, and KIN courses.
Kinesiology Major

Kinesiology Major- Bachelor of Science (BS)
Please see the UNLV Department of Kinesiology and Nutrition Science web page at http://kinesiology.unlv.edu/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-kinesiology.

Please see advising information at the UNLV The Divisions of Health Sciences Academic Advising Center at http://kinesiology.unlv.edu/advising.html.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Recognize Kinesiology career options.
2. Demonstrate knowledge of functional anatomy and biomechanics.
3. Describe the biological foundations of motor control, explain information processing and learning theories, and identify practical concerns relating to enhancement of motor performance.
4. Explain the biomechanical principles that underlie human motor performance.
5. Specify the physiological response to exercise and describe the systemic adaptations that occur at rest and during submaximal and maximal exercise following chronic aerobic, anaerobic, and strength training.
6. Demonstrate knowledge of and ability to discuss the physiological basis of the major components of physical fitness, and develop individual fitness programs.
7. Evaluate current concepts in nutrition in relation to health and disease, and apply guidelines for designing a healthy diet.
8. Explain acute care of sport related injury and illness, and design risk management and injury prevention strategies.
9. Evaluate popular nutrition practices utilized by competitive and recreational athletes, focusing on dietary assessment, scientific validity, and efficacy.
10. Explain the risk factor concept of disease and the role of physical activity in modifying risk factors.
11. Analyze and evaluate research data.

University Graduation Requirements
- Please see Graduation Policies for complete information

Kinesiology Degree Requirement - Total: 120-124 Credits

General Education Requirements - Subtotal: 36-37 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 3
- MATH 124 - College Algebra or higher

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.
- Humanities and Fine Arts:
  - COM 101 - Oral Communication
  - one 3-credit course in the humanities and one 3-credit course in fine arts
- Social Science: 9 credits
- PSY 101 – General Psychology
- One course from each of the two remaining fields
- **Life and Physical Sciences and Analytical Thinking: 10 credits**
  - Automatically satisfied by Major requirement

Multicultural and International - Credits: 6

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Pre-KIN requirement for admission to the major – Credits: 15-18 (‘C’ or better in all classes)

- HSC 100 - Introduction to Academia and Scholarship in Health Sciences
- KIN 170 - Introduction to Kinesiology
- KIN 200 - Statistics for the Health Sciences
- MATH 124 - College Algebra
- BIOL 189 - Fundamentals of Life Science

Major Degree Requirements - BS in Kinesiology - Subtotal: 66 Credits

Sciences Requirements - Credits: 12

- BIOL 189 - Fundamentals of Life Science
- KIN 223 - Human Anatomy and Physiology I
- KIN 224 - Human Anatomy and Physiology II

Kinesiology Foundation Courses - Credits: 27

(‘C’ or better in all KIN-prefixed classes)

- KIN 170 - Introduction to Kinesiology
- KIN 150 - Emergency Management of Injuries and Illness
- KIN 200 - Statistics for the Health Sciences
- KIN 245 - Anatomical Kinesiology
- KIN 312 - Motor Control and Learning
- KIN 346 - Biomechanics
- KIN 350 - Social Psychology of Physical Activity
- KIN 391 - Exercise Physiology

A minimum of 27 additional credits of upper division KIN or NUTR-prefixed courses are required.

Elective Courses – Credits: 9-18 (sufficient credits to bring the student’s total to 120).

Total Credits: 120

**Kinesiology**

**KIN 101 - Athletic Training**

Basic principles in the prevention, recognition, and care of athletic injuries and the duties of an athletic trainer in the sports medicine program. 
Credits: 3

**KIN 102 - Introduction to Athletic Training Clinical**

Provides an understanding of the practical settings within the athletic training profession. Includes training room procedures and operations and basic ankle taping skills.
Credits: 1
Prerequisites: Acceptance into the Athletic Training Educational Program.

**KIN 150 - Emergency Management of Injuries and Illness**

Skill and knowledge development in the application of emergency care procedures. Topics covered in the course include basic CPR & AED certification, primary and secondary evaluation, wound care, splinting, transport techniques, recognition and management of sudden illnesses/injuries and other life threatening conditions.
Credits: 4
KIN 170 - Introduction to Kinesiology
An introductory survey of Kinesiology, the science of human movement, including related academic and vocational subfields. Foundational concepts of scientific inquiry, data collection, and data analysis are integrated into web-based and classroom/lab instruction. Students will be introduced to anatomy and physiology, career pathways in Kinesiology, professional organizations, information literacy, and evidence-based practice.
Credits: 3
Prerequisites: MATH 124 or above.

KIN 201 - Exercise and Sport Injury
Provides knowledge to recognize and manage orthopedic injury as a result of exercise or sport participation. Topics include: Pathology Injury, Musculoskeletal conditions of the extremities, pelvis, spine, head and face, as well as General Medical Conditions.
Credits: 3
Prerequisites: KIN 101 and KIN 150.

KIN 223 - Human Anatomy and Physiology I
Comprehensive study of the structure and function of the human body outlining physical and chemical principles which apply to cell organization, skeletal system, muscular system and nervous system. Examines molecular, cellular, tissue and gross levels of organization.
Credits: 4
Prerequisites: Prerequisites Grade of C or better in each of the following: BIOL 189 or BIOL 196 or BIOL 197. The maximum number of attempts for BIOL/KIN 223 is three, including earned grades, withdrawals and audits.
Notes: Same as BIOL 223

KIN 224 - Human Anatomy and Physiology II
Comprehensive study of the structure and function of the human body outlining physical and chemical principles which apply to internal body systems including the cardiovascular system, respiratory system, digestive system, urinary system, immune system, endocrine systems, and reproductive systems.
Credits: 4
Prerequisites: Grade of C or better in KIN 223. The maximum number of attempts for BIOL/KIN 224 is three (3) including earned grades, withdrawals, and audits.
Notes: Same as BIOL 224
KIN 245 - Anatomical Kinesiology
Anatomical analysis of human movement as a basis for teaching and adaptation of motor skills.
Credits: 3
Prerequisites: BIOL 223 or KIN 223

KIN 250 - Social Psychology of Physical Activity
Introduction to current theories, research methodology, and practical concerns relating to the sociological/psychological perspectives of sport and physical activity.
Credits: 3
Prerequisites: KIN 175, SOC 101 or PSY 101.

KIN 261 - Physical Activity in Aging
This course is designed to consider the biological changes which occur with aging, and the role of physical activity in attenuating these changes. Students will address issues related to diminished physiological function in aging, and the impact of physical fitness on other dimensions of the senior adult's life.
Credits: 3

KIN 308 - Scientific Basis of Strength Development
For individuals interested in the design and assessment of strength and resistance training programs. Topics include: scientific and theoretical basis of strength; different types and systems of training; different types of equipment; designing training programs; myths and fallacies; and detraining.
Credits: 3
Prerequisites: KIN 245

KIN 309 - Essentials of Personal Training
Examination of the personal fitness training profession. Emphasis on developing skills for client education and motivation, and establishing criteria for designing and implementing personalized training programs for clients.
Credits: 3
Prerequisites: KIN 245, KIN 224

KIN 310 - Advanced Strength Methods
Theory and principles of resistance exercise programs. Emphasis on mechanism of adaptation to resistance exercise; design and implementation of strength training programs for enhancement of athletic performance; and role of strength training in improving general health and fitness.
Credits: 3
Prerequisites: KIN 308.

KIN 312 - Motor Control and Learning
Introduction to motor performance and learning, including biological foundations of motor control, information processing, learning theories, instructional and training procedures to enhance learning.
Credits: 3
Prerequisites: PSY 101.

KIN 316 - Motor Development Across the Lifespan
Examination of motor and cognitive development throughout the lifespan. Special emphasis on skilled performance, learning theories, motor abilities, individual differences, developmental considerations, and instructional and training procedures for infants through older adulthood.
Credits: 3

KIN 346 - Biomechanics
Mechanical analysis of internal and external forces acting on the human body and the effects of those forces. Special emphasis on teaching motor skills in a physical education and athletic setting. Laboratory experience to enhance learning.
Credits: 4
Prerequisites: KIN 245 and MATH 124.

KIN 350 - Social Psychology of Physical Activity
Study of current theories, research methodology, and practical concerns relating to the sociological/psychological perspectives of sport and physical activity.
Credits: 3
Prerequisites: KIN 200; SOC 101 or PSY 101; KIN major
**KIN 370 - Clinical Experiences in Athletic Training I**
Clinical experience in athletic training provided in the athletic training treatment center. Emphasis on training room policies and procedures and the skills of taping, padding, and bracing.
Credits: 5
Prerequisites: KIN 102.

**KIN 371 - Clinical Experiences in Athletic Training II**
Clinical experiences in athletic training provided in the athletic training treatment center. Emphasis on the application of modalities within the practical setting and basic principles of rehabilitation.
Credits: 4
Prerequisites: KIN 370.

**KIN 386 - Assessment and Evaluation of Lower Extremity Injuries**
In-depth study of the anatomy and functional abilities of the lower extremity. Emphasis on the assessment techniques used for evaluating common athletic injuries.
Credits: 4
Prerequisites: KIN 201, KIN 245, a grade of "C" or better in both KIN 223 and KIN 224.

**KIN 387 - Assessment and Evaluation of Upper Extremity Injuries**
In-depth study of the anatomy and functional abilities of the upper extremity. Emphasis on the assessment techniques used for evaluating common athletic injuries.
Credits: 4
Prerequisites: KIN 386.

**KIN 390 - Therapeutic Modalities**
Equips students with an understanding of the inflammatory process and pain. Includes the physiologic reactions, contraindications, and indications for: heat, cold, electricity, sound, and water.
Credits: 4
Prerequisites: KIN 101, a grade of "C" or better in both KIN 223 and KIN 224.

**KIN 391 - Exercise Physiology**
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.
Credits: 4
Prerequisites: KIN 224.

**KIN 396 - Seminar in Sports Injury Management**
Prepares students for field experience placement, graduate school and full-time employment. Professional and ethical conduct discussed. Can be taken by all majors but must be taken by pre-professional studies majors.
Credits: 1
Prerequisites: KIN 386.

**KIN 414 - Enhancing Mental and Motor Abilities**
Topics of mental and motor abilities including attention, arousal states, information processing, and practice schedules. Special emphasis on enhancing motor performance through mental strategies.
Credits: 3
Prerequisites: KIN 250, KIN 312, or KIN 316.
Notes: This course is crosslisted with KIN 614. Credit at the 600-level requires additional work.

**KIN 424 - Professional Development in Kinesiological Sciences**
The course applies principles of cognitive neuroscience and psychomotor kinesiology to develop skills in professional communication and leadership as related to fields of Kinesiology. Topics include team cohesion, effective group and individual communication, strategies for professional goal setting, interview skills, networking, leading and managing self and organizations.
Credits: 3
Prerequisites: Kinesiology Major and Senior Standing.
KIN 440 - Human Physiology
(= BIOL 440) Principles of human physiology, normal functioning of human body as a whole, and interrelationships of organs and organ systems. Emphasis on physiological processes and their interrelationships.
Credits: 3
Prerequisites: BIOL 189.

KIN 446 - Sport and Exercise Biomechanics
Mechanics applied to the analysis of human movement in sport and exercise activities. Emphasis on developing both qualitative and quantitative skills to assess and improve performance.
Credits: 3
Prerequisites: KIN 346.

KIN 456 - Biomechanics of Endurance Performance
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.
Credits: 3
Prerequisites: KIN 346.
Notes: This course is crosslisted with KIN 656.
Credit at the 600-level requires additional work.

KIN 457 - Physiology of Endurance Performance
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.
Credits: 3
Prerequisites: KIN 346.

KIN 458 - Organization and Administration of Athletic Training Programs
Organization and administration of athletic training programs in conventional and clinical settings including athletic training room management, budgeting, staffing, insurance, record keeping and data bases, emergency care planning, legal issues, design of new facilities, and public relations.
Credits: 3
Prerequisites: KIN 371.

KIN 465 - Neurophysiology of Movement
Introduction to neurophysiology with emphasis on voluntary control of human movement. Basic neuroscience, the sensory system, the motor system, movement planning, motor execution, and the background knowledge necessary to interpret research in neurophysiology and related disciplines (neuroscience, motor control).
Credits: 3
Prerequisites: [BIOL 224 or KIN 224], KIN 245, KIN 391.

KIN 470 - Advanced Clinical Experiences in Athletic Training I
Clinical experiences in athletic training provided in the athletic training treatment center. Emphasis on advanced techniques of evaluation used during assessment and rehabilitation of injuries to the lower extremity.
Credits: 5
Prerequisites: KIN 371.

KIN 471 - Advanced Clinical Experiences in Athletic Training II
Clinical experiences in athletic training provided in the athletic training treatment center. Emphasis on advanced techniques of evaluation used during assessment and rehabilitation of injuries to the upper extremity.
Credits: 4
Prerequisites: KIN 470.
KIN 475 - Seminar in Sport and Fitness Management
Bridges the professional sequence and the clinical experience of students enrolled in supervised on-site professional experiences.
Credits: 1
Corequisites: KIN 490
Prerequisites: Senior standing and consent of instructor.

KIN 480 - Therapeutic Exercise
Physiology of trauma and the subsequent effects on tissues as the basis for rehabilitation.
Techniques of therapeutic exercise, planning rehabilitation programs and manual muscle testing.
Credits: 4
Prerequisites: KIN 101 and KIN 386.

KIN 482 - Advanced Athletic Training
Advanced study in the prevention and specific care of athletic injuries. Focuses on sport nutrition, special athletes, professionals involved in the sports medicine team and other related topics. Preparation for national certification as an athletic trainer discussed.
Credits: 3
Prerequisites: KIN 371.

KIN 490 - Internship in Kinesiology
Supervised on-site professional experience in local settings that encompass all age groups including health clubs, YMCAs, industry, nursing homes, and senior activity centers.
Credits: 3-6
Prerequisites: Kinesiology Major and senior standing.
May be repeated to a maximum of 6 credits.

KIN 492 - Clinical Exercise Physiology
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.
Credits: 3
Prerequisites: [BIOL 224 or KIN 224] and KIN 391.

KIN 493 - Applied Exercise Physiology
Experience applying theoretical concepts introduced in exercise physiology. Introduction to the scientific method and research writing.
Credits: 3
Prerequisites: BIOL 189, KIN 200, KIN 391

KIN 495 - Sports Medicine
Pharmacological aspects of sports medicine. Basic drugs used to treat a variety of sports-related injuries and problems. Pathophysiology of athletic injury. Special topics in sports medicine discussed.
Credits: 3
Prerequisites: KIN 386, KIN 390, and Kinesiology or Athletic Training major; or KIN 391 and Nutrition Science major.

KIN 497 - Field Experiences in Athletic Training
Practicum for upper-division students to experience working in a traditional or non-traditional athletic training setting in the community.
Credits: 1 to 6
Prerequisites: KIN 396, upper-division standing, and approval of instructor.
May be repeated to a maximum of six credits.

KIN 498 - Seminar in Athletic Training
Designed to prepare students for the BOC certification exam, graduate school application, and full time employment. Professional and ethical conduct will be discussed.
Credits: 1
Prerequisites: KIN 371.

KIN 499 - Independent Study in Kinesiology
Independent study of a selected topic in kinesiology and nutrition sciences.
Credits: 1-6
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.
Nutrition Science

Nutrition Science - Bachelor of Science (BS)
Please see the UNLV Department of Nutrition Science web page at http://nutrition.unlv.edu/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-nutrition-sciences.

Please see advising information at The Division of Health Sciences Academic Advising Center at http://www.unlv.edu/healthsciences.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. The program will prepare graduates for a dietetics career utilizing the knowledge and skills gained during the DPD.
2. Recruit and retain a diverse population of students.
3. Provide mentoring opportunities to foster participation in various educational and professional activities.
4. Provide students with the opportunity to work with a diverse population.

University Graduation Requirements
• Please see Graduation Policies for complete information

Nutrition Science Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 36-37 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
• ENG 101 - Composition I

Nutrition Science Degree Requirements - Dietetics - Subtotal: 84 Credits

• ENG 102 - Composition II
Second-Year Seminar - Credits: 3
Constitutions - Credits: 4
Mathematics - Credits: 3
• MATH 124 - required for Dietetics and Sports Nutrition Concentrations
• MATH 127 - Precalculus II or higher - required for Pre-Professional Concentration

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

• Humanities and Fine Arts - Credits: 9
  o Two courses from two different areas - 6 credits
  o One course in Fine Arts - 3 credits
• Social Science - Credits: 9
  o One course each from three different fields
• Life and Physical Sciences and Analytical Thinking
  o Automatically satisfied by Major requirements

Multicultural and International
• Multicultural, one 3 credit course required
• International, NUTR 301 - Nutrition, Health and Ethnic Issues

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirement - BS in Nutrition Science - Dietetics - Subtotal: 84 Credits
Foundations Courses - Credits: 23
- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- BIOL 251 - General Microbiology
- CHEM 108 - Introduction to Chemistry
- KIN 200 - Statistics for the Health Sciences
- MATH 124 - College Algebra
- NUTR 223 - Principles of Nutrition
- NUTR 271 - Introduction to Nutrition and Dietetics
- NUTR 301 - Nutrition, Health and Ethnic Issues

Required Nutrition Sciences - Credits: 48
- FAB 101 - Food Service Sanitation I
- FAB 159 - Food Service Operations Fundamentals
- FAB 160 - Hospitality Purchasing
- FAB 361 - Principles of Food Science
- NUTR 326 - Principles of Food Science
- NUTR 223 - Principles of Nutrition
- NUTR 271 - Introduction to Nutrition and Dietetics
- NUTR 301 - Nutrition, Health and Ethnic Issues
- NUTR 311 - Nutrition Assessment
- NUTR 311L - Nutrition Assessment
- NUTR 370 - Nutrition in the Life Cycle
- NUTR 405 - Advanced Sports Nutrition
- NUTR 426 - Medical Nutrition Therapy I
- NUTR 427 - Medical Nutrition Therapy II
- NUTR 429 - Dietetics Business and Management Principles I
- NUTR 431 - Seminar in Nutrition
- NUTR 450 - Nutritional Pathophysiology
- NUTR 451 - Nutrition and Metabolism
- NUTR 470 - Community Nutrition
- NUTR 315 - Field Experience in Nutrition
- NUTR 407 - Complementary and Integrative MNT
- NUTR 408 - Nutrition, Food and Policy
- NUTR 452 - Nutrition and Metabolism II
- NUTR 430 - Dietetics, Business, and Management Principles II
- NUTR 466 - Nutritional Anthropology
- NUTR 475 - Undergraduate Research in Nutrition
- NUTR 490 - Special Topics in Nutrition
- NUTR 491 - Independent Study in Clinical Nutrition
- NUTR 495 - Practicum in Nutrition Education
- KIN 391 - Exercise Physiology
- KIN 492 - Clinical Exercise Physiology

Electives - Credits: 6

Total Credits: 120

Nutrition Sciences - Pre Professional Concentration

Major Requirement - BS in Nutrition Science - Pre Professional Concentration - Subtotal: 84 Credits

Foundations Courses - Credits: 38
- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- BIOL 251 - General Microbiology
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
• CHEM 474 - Biochemistry I  
• KIN 200 - Statistics for the Health Sciences

**Required Nutrition Sciences - Credits: 42**
• KIN 391 - Exercise Physiology  
• NUTR 223 - Principles of Nutrition  
• NUTR 271 - Introduction to Nutrition and Dietetics  
• NUTR 301 - Nutrition, Health and Ethnic Issues  
• NUTR 311 - Nutrition Assessment  
• NUTR 311L - Nutrition Assessment  
• NUTR 370 - Nutrition in the Life Cycle  
• NUTR 405 - Advanced Sports Nutrition  
• NUTR 426 - Medical Nutrition Therapy I  
• NUTR 427 - Medical Nutrition Therapy II  
• NUTR 431 - Seminar in Nutrition  
• NUTR 450 - Nutritional Pathophysiology  
• NUTR 451 - Nutrition and Metabolism  
• NUTR 452 - Nutrition and Metabolism II  
• NUTR 470 - Community Nutrition

**Select from the Following Electives - Credits: 4**
• NUTR 315 - Field Experience in Nutrition  
• NUTR 407 - Complementary and Integrative MNT  
• NUTR 408 - Nutrition, Food and Policy  
• NUTR 466 - Nutritional Anthropology  
• NUTR 475 - Undergraduate Research in Nutrition  
• NUTR 490 - Special Topics in Nutrition  
• NUTR 491 - Independent Study in Clinical Nutrition  
• NUTR 495 - Practicum in Nutrition Education  
• KIN 492 - Clinical Exercise Physiology

**Electives - Credits: 4**

Total Credits: 120

**Major Requirement - BS in Nutrition Science - Sports Nutrition Concentration - Subtotal: 84 Credits**

**Foundation Courses - Credits: 23**
• BIOL 189 - Fundamentals of Life Science  
• BIOL 223 - Human Anatomy and Physiology I  
• BIOL 224 - Human Anatomy and Physiology II  
• CHEM 108 - Introduction to Chemistry  
• MATH 124 - College Algebra  
• NUTR 271 - Introduction to Nutrition and Dietetics  
• NUTR 301 - Nutrition, Health and Ethnic Issues  
• NUTR 370 - Nutrition in the Life Cycle  
• NUTR 223 - Principles of Nutrition

**Required Nutrition Sciences - Credits: 52**
• FAB 101 - Food Service Sanitation I  
• FAB 159 - Food Service Operations Fundamentals  
• FAB 160 - Hospitality Purchasing  
• FAB 361 - Principles of Food Science  
• NUTR 326 - Principles of Food Science  
• NUTR 223 - Principles of Nutrition  
• NUTR 271 - Introduction to Nutrition and Dietetics  
• NUTR 301 - Nutrition, Health and Ethnic Issues  
• NUTR 311L - Nutrition Assessment  
• NUTR 370 - Nutrition in the Life Cycle  
• NUTR 405 - Advanced Sports Nutrition  
• NUTR 426 - Medical Nutrition Therapy I  
• NUTR 427 - Medical Nutrition Therapy II  
• NUTR 429 - Dietetics Business and Management Principles I  
• NUTR 431 - Seminar in Nutrition  
• NUTR 450 - Nutritional Pathophysiology  
• NUTR 451 - Nutrition and Metabolism  
• NUTR 470 - Community Nutrition  
• KIN 391 - Exercise Physiology

**Specialty Courses - Credits: 9**
• KIN 492 - Clinical Exercise Physiology  
• or
NUTR 407 - Complementary and Integrative MNT

or

NUTR 491 - Independent Study in Clinical Nutrition

or

NUTR 495 - Practicum in Nutrition Education

Electives - Credits: 6

Total Credits: 120

Nutrition Sciences

NUTR 121 - Human Nutrition
Emphasis on the classification, digestion, absorption, metabolism, and function of carbohydrates, lipids, proteins, water, vitamins, and minerals in the human body. Energy metabolism and nutrient needs during the lifecycle and for special populations will be discussed. A personal dietary assessment project will be required.
Credits: 3
Notes: Not for NUTR majors.

NUTR 223 - Principles of Nutrition
Nutrition functions and bases for nutrient requirement at the cellular level.
Credits: 3
Corequisites: NUTR 271
Prerequisites: Pre-NUTR major only; MATH 124 or higher (not MATH 132); CHEM 108; BIOL 189.

NUTR 271 - Introduction to Nutrition and Dietetics
Exposure to various areas of the field of dietetics, including clinical, community, management, and consultant paths. The nature of the work, the occupational outlook, ethics, networking and professionalism are covered.
Credits: 1
Corequisites: NUTR 223.
Prerequisites: Pre-NUTR Major only; MATH 124 or higher (not MATH 132); CHEM 108; BIOL 189

NUTR 301 - Nutrition, Health and Ethnic Issues
Discussions of the historical, geographic, political and religious factors influencing the nutritional status, eating customs, and meal patterns of various ethnic groups. Fulfills the university international course requirement.
Credits: 3
Prerequisites: ENG 101.
Notes: Satisfies International Requirement.

NUTR 311 - Nutrition Assessment
Computerized dietary analysis systems, growth charts, national health and nutrition surveys, biochemical parameters and physical signs of nutritional status, and anthropometric assessment techniques. Also includes a self-paced interactive study of medical terminology.
Credits: 1-4
Prerequisites: Nutrition majors only, NUTR 223, NUTR 271, NUTR 370, MATH 124 or higher.

NUTR 311L - Nutrition Assessment
Computerized dietary analysis systems, growth charts, national health and nutrition surveys, biochemical parameters and physical signs of nutritional status, and anthropometric assessment techniques. Also includes a self-paced interactive study of medical terminology.
Credits: 1-4
Prerequisites: MATH 127, NUTR 370.

NUTR 315 - Field Experience in Nutrition
Students participate in various community nutrition intervention projects aimed at improving eating habits and physical activity patterns of the participants. Students gain experience working with people from various stages in the life cycle (children through older adults) and they learn to provide appropriate nutrition education for age, educational level, and cultural background.
Credits: 1-3
Prerequisites: NUTR 223 and NUTR 271
May be repeated to a maximum of six credits.

NUTR 326 - Principles of Food Science
The intent of this course will be the in depth study of food science. The course materials will concentration on the selection of foods and the chemical and physical properties of food that affect their preparation and acceptability. Basic fundamentals of food science and underlying technology associated with providing a safe, nutritious, and abundant supply of fresh and process foods to humans.

Credits: 3
Prerequisites: CHEM 108, FAB 101, FAB 159.

**NUTR 340 - Introduction to Sports Nutrition**
Evaluation of current concepts in sports nutrition. Findings translated into practical guidelines for fitness, dietary regimens supplementation, ergogenic aids, and food consumption. Not for NUTR majors.
Credits: 3
Prerequisites: NUTR 121 or BIOL 224 and 224L.

**NUTR 370 - Nutrition in the Life Cycle**
Changes in nutrient needs during reproduction, growth and development and aging discussed with consideration given to physiologic, social, economic, and life-style factors that influence nutrition status, food choices and specific life-stage concerns.
Credits: 3
Prerequisites: NUTR 223.

**NUTR 405 - Advanced Sports Nutrition**
Popular nutrition practices utilized by competitive and recreational athletes focusing on dietary analyses, scientific support and efficacy. Emphasis on fuel, alterations in body composition, weight control, metabolic pathways, and ergogenic aids.
Credits: 3
Prerequisites: NUTR 311/311L.

**NUTR 406 - Food Microbiology**
(Same as BIOL 470.) Microorganism classification, normal populations, gastrointestinal flora, food-borne illnesses, sanitation safety, and new technologies.
Credits: 3
Prerequisites: BIOL 251/251L.

**NUTR 407 - Complementary and Integrative MNT**
Emphasis on research methods and science-based literature to evaluate the safety, standardization and efficacy of popular therapies, including herbals, botanicals, and dietary supplements for preventive and nontraditional medical nutrition therapies.
Credits: 3
Prerequisites: NUTR 311/311L.

**NUTR 408 - Nutrition, Food and Policy**
Combination lecture and seminar course covering laws and policies related to health care, food, and nutrition, including, but not limited to, advertising, labeling, food assistance, and biotechnology. The role of federal and state regulations and agencies in these areas is also covered.
Credits: 3
Prerequisites: NUTR 370.

**NUTR 426 - Medical Nutrition Therapy I**
In-depth exploration of the Nutrition Care Process, including relevant documentation, standardized language, comprehensive nutrition assessment, interpretation of laboratory values, food and medication interactions and individualized patient and client care planning.
Credits: 3
Prerequisites: NUTR 311/311L and BIOL 224/224L.

**NUTR 427 - Medical Nutrition Therapy II**
Medical Nutrition Therapy and nutrition support as applied to specific disease states. Conditions impacting weight management, bone health, eating disorders, diabetes, renal, hepatic, and gastrointestinal disorders are covered.
Credits: 3
Corequisites: NUTR 450 and NUTR 431.
Prerequisites: NUTR 426.
NUTR 429 - Dietetics Business and Management Principles I
Business and management theories and practices specific to dietetics professionals in clinical practice, food service management, community nutrition, and private practice.
Credits: 3
Prerequisites: FAB 160, FAB 361, or NUTR 326, NUTR 311, NUTR 311L, NUTR Major Only.

NUTR 430 - Dietetics, Business, and Management Principles II
Case study approach to support theories and principles taught in NUTR 429.
Credits: 3
Prerequisites: NUTR 429.

NUTR 431 - Seminar in Nutrition
Synthesizes knowledge of nutrition as a science and the role of nutrition and dietetics professionals in the future of the Nutrition Care Process.
Credits: 3
Corequisites: NUTR 427; NUTR 450.

NUTR 436 - Food Microbiology Laboratory
(Same as BIOL 469L) Practical laboratory experiences in food microbiology; methodology for identification and quantification of microbes for food safety.
Credits: 2
Corequisites: NUTR 406.
Prerequisites: BIOL 251.
Notes: Laboratory fee required.

NUTR 437 - Medical Nutrition Therapy Practicum
Practicum sessions, on and off campus, with emphasis on application of the Nutrition Care Process.
Credits: 1
Corequisites: NUTR 427.
Prerequisites: NUTR 426.

NUTR 450 - Nutritional Pathophysiology
Investigation of pathophysiology of common human metabolic disorders. Develops an understanding of the role of nutrition in the etiology and treatment of these disorders through examination of case studies.
Credits: 3
Corequisites: NUTR 427 and NUTR 431
Prerequisites: BIOL 224, CHEM 108, NUTR 311, NUTR 311L, NUTR Major Only.

NUTR 451 - Nutrition and Metabolism
Cellular metabolism of carbohydrates, lipids, proteins, vitamins, and minerals, including energy transformation, digestion, absorption, transport, and malnutrition.
Credits: 3
Prerequisites: BIOL 224, CHEM 108, NUTR 311, NUTR 311L, NUTR Major Only.

NUTR 452 - Nutrition and Metabolism II
Cellular metabolism of macronutrients and micronutrients at an advanced level. Course will emphasize food sources, current research, and translating research into clinical practice.
Credits: 3
Prerequisites: NUTR 426, NUTR 451, NUTR majors only.

NUTR 466 - Nutritional Anthropology
(Same as ANTH 466) Provides anthropological perspective on the multifaceted nature of human relationships to food, especially regarding health, disease, and malnutrition in the contemporary world. Variety of theoretical and methodological approaches explored.
Credits: 3
Prerequisites: NUTR 223.
Notes: Same As ANTH 466.

NUTR 470 - Community Nutrition
Provides background and skill development on the organization, implementation and evaluation of community-based nutrition programs for individuals and communities. A field experience providing an opportunity to observe or assist with screenings, education programs or community events will be required out of class.
NUTR 475 - Undergraduate Research in Nutrition
Participation in a research project in nutrition selected by faculty and students to demonstrate potential in the field. Project may be conducted as an integrated project or an independent activity.
Credits: 1-3
Prerequisites: NUTR 311/311L and consent of instructor.
May be repeated to a maximum of six credits.

NUTR 490 - Special Topics in Nutrition
Focuses on specific nutrition-related issue not covered in depth in other NUTR courses.
Credits: 1-3
Prerequisites: NUTR 311/311L.
Notes: Offered for students who have a common interest in a nutrition topic.
May be repeated to a maximum of six credits.

NUTR 491 - Independent Study in Clinical Nutrition
Independent study of selected nutrition topics. Assignments/projects designed by instructor to meet the needs of the student.
Credits: 1-3
Prerequisites: NUTR 311/NUTR 311L and consent of instructor.
May be repeated to a maximum of nine credits.

NUTR 495 - Practicum in Nutrition Education
Practical experiences for students to share information with populations of various ages and nutritional needs. Guidance provided for planning and implementing nutrition education sessions, program evaluation, and use of multimedia technologies.
Credits: 1-3
Prerequisites: NUTR 311/311L and consent of instructor.

Kinesiology Minor

Courses Include - Total Credits: 21

- KIN 175 - Physical Activity and Health
- KIN 245 - Anatomical Kinesiology
- KIN 250 - Social Psychology of Physical Activity
- KIN 312 - Motor Control and Learning
- KIN 346 - Biomechanics
- KIN 391 - Exercise Physiology
- KIN 101 - Athletic Training

Physical Therapy
School of Public Health

Purpose and Focus
The purpose of the School of Public Health (SCHS) is to prepare individuals to become effective public health practitioners, health care managers and administrators, and other health professionals who will competently identify public health problems and needs, develop effective mechanisms to address those needs, and promote appropriate services for the protection of human health. The SCHS is actively involved in educational, research, and outreach programs in public health with the expectation to be nationally recognized as innovative, comprehensive in nature and scope, cooperative in character, and ensure that graduates can serve as catalysts to promote population health in Nevada, the nation and the world.

The School of Public Health offers two undergraduate degree programs: Bachelors of Science in Health Care Administration and Policy and a Bachelor’s of Science in Public Health.

Accreditation
Northwest Commission on Colleges and Universities
Association of University Programs in Health Administration

Health Care Administration Major
Students in the undergraduate Health Care Administration program gain a broad view of the health care delivery system and health care management practices. They develop skills through the curriculum and internships to prepare them primarily for entry level management positions in the organization, financing, and delivery of health care services.

Admission Policies
A cumulative grade point average of 2.50 and completion of nine credits of department prerequisite courses is required for admission to the major.

Pre-requisite courses to be taken before applying for admission to the health care major include: MATH 124 or higher; PSY 101 or SOC 101, or ECON 102; HCA 175 or HCA 201.

Students are required to have a 2.5 GPA in the major requirements.

Public Health Major
The public health degree program provides students with a comprehensive program of study in preparation for careers and advanced degrees in public health. Public health majors take a set of core classes that span the broad scope of health promotion, disease prevention, and eliminating health disparities. Students will also complete a set of classes in one of four areas of emphasis: environmental and occupational health, social and behavioral health, epidemiology and biostatistics, or public health generalist. All students will complete their studies with a culminating experience of either a public health practicum or a senior thesis.

Admission to the Major
A cumulative grade point average of 2.75 and completion of general education math and science requirements.

Advisement
Students are encouraged to seek advisement in the Advising Center regarding general education and program requirements. Enrollment caps may apply. Program of study sheets are available in the College of Health Sciences Advising Center. It is the student’s responsibility to obtain current information relative to departmental policies and program of study.
Health Sciences

HSC 100 - Introduction to Academia and Scholarship in Health Sciences
This First Year Seminar exposes students to majors, careers, and scholarship in health sciences to enhance inquiry and critical thinking skills. Additional areas of focus are aimed at promoting life-long learning, self-exploration, academic planning, and helping students become acquainted with university life and policies to accelerate the acclimation process.
Credits: 2
Notes: Fulfills the First Year Seminar requirement.

HSC 210 - Milestone Discoveries in the Health Sciences
Examination of seminal discoveries in the health sciences. Focus will be on those discoveries that saved lives and/or reduced suffering by changing the way medicine was practiced or public health was improved. Selected topics will be examined in terms of the foundation laid by the discovery, the challenge to the existing paradigm, and the importance to today’s health care field.
Credits: 3
Prerequisites: ENG 101, ENG 102 or First Year Seminar course.
Notes: Fulfills Second Year Seminar requirement.

HSC 310 - Patient Education in the Health Sciences
Techniques to improve healthful behavior of patients via education. Theories and principles of learning, assessment of patient's needs, and processes of implementation and evaluation of appropriate teaching/learning strategies.
Credits: 3

HSC 320 - Patient-Provider Relationships in the Health Sciences
Examination of health care-related issues and concepts with emphasis on communication between patient and practitioner.
Credits: 3
Prerequisites: ENG 101 and 102

HSC 400 - Research Methodologies in the Health Sciences
Examination of the issues involved in planning, conducting, and evaluating research. Emphasis on qualitative and quantitative research methodologies appropriate to the allied health professions.
Credits: 3
Prerequisites: KIN 200.

HSC 405 - Ethical Issues in Health Care
Study of the philosophical basis of ethics and ethical decision-making practices in contemporary health care with an examination of the differences between “masculine” and “feminine” ethical decision-making patterns. Includes an analysis of current ethical issues such as abortion, right to die, euthanasia, organ transplants, and individual versus collective rights of persons.
Credits: 3

HSC 410 - Management Principles in the Health Sciences
Introduction of concepts that influence the role of the manager or administrator in a health care setting.
Credits: 3
Prerequisites: HSC 320.

HSC 420 - Information Technology for the Health Sciences
Computer applications for the allied health professions. Overview of issues and trends pertaining to the implementation of computer-based innovations in the clinical or practice setting. Emphasis on communications, information management, and information retrieval.
Credits: 3
Prerequisites: CS 115.
HSC 490 - Professional Paper in the Health Sciences
Discussion of the components of a professional paper, conducting in-depth literature review, and writing a professional paper.
Credits: 3
Prerequisites: Senior standing in B.S. in Health Sciences program.

HSC 492 - Holistic Health Care: The Art and Science of Caring and Healing
Examines and evaluates scientific evidence of holistic modalities that can be implemented into health care practices of daily life. Emphasizes the meaning of a holistic perspective for practice implications and daily life.
Credits: 3
Prerequisites: PSY 101.

HSC 499 - Special Topics in Health Sciences
Specialized instruction in special topics in health sciences designed to develop understanding of current health sciences issues.
Credits: 1-6
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

PEX 105 - Scuba
This class focuses on beginning techniques of SCUBA diving. Students will demonstrate the fundamental skills of SCUBA by completing the Open Water Diver certification in both pool and open water. Students will also understand SCUBA diving theory, physics and physiology, equipment, dive planning, emergency procedures, aquatic life and environment.
Credits: 1
May be repeated for a maximum of four credits.
School of Nursing

Purpose and Focus
Graduates of the program are expected to demonstrate competencies consistent with being a critical thinker, a culturally competent caring provider of health care, an effective communicator, and a responsible manager of health care. Graduates are prepared to be successful in the National Council Licensure Examination (NCLEXRN), which is required to practice and be licensed as a Registered Nurse in all states.

Degree Objectives
At the conclusion of the program of study, graduates will:

1. Use emerging patient care technologies and information systems to support safe and effective nursing practice.
2. Integrate leadership concepts, skills, and decision making in the provision of high quality nursing care delivery in a variety of settings.
3. Apply knowledge of health care policy, finance and regulatory environments, including local, state, national and global health care trends in nursing practice.
4. Integrate professional values, attitudes, knowledge, and behaviors into nursing practice.
5. Demonstrate sound clinical judgment in the planning, provision, and evaluation of evidence-based nursing care at the individual, group, and community levels.
6. Apply principles that enhance safety for patients and health care providers through both individual performance and system effectiveness.
7. Demonstrate effective inter- and intra-professional communication and collaboration for improving patient outcomes.
8. Use clinical prevention strategies to promote health and prevent disease across the life span at the individual and population levels.

Accreditation
Northwest Commission on Colleges and Universities
Commission on Collegiate Nursing Education
Nevada State Board of Nursing - Approved

Undergraduate Majors
Nursing

Area of Concentration
B.S. in Nursing

Offers preparation for licensure as a registered nurse.

Licensure Programs
Graduates of the BS in Nursing Program must successfully complete the NCLEX-RN examination to obtain licensure.

Admission to the Major
Minimum GPA: 3.00

Admission Policies
Students are admitted each semester. Students utilize the admission criteria published within the Undergraduate Catalog in effect at the time of admission to UNLV pre-nursing (PRN) major. Once admitted to the nursing program, students are expected to maintain continuous full-time enrollment, thus allowing completion of the nursing course work in 16 months. Students may apply and be accepted only twice into the nursing program. Once a student has begun the nursing program, they may not reapply as a new student if they are unsuccessful in, or withdraw from, their nursing courses, except if the failure occurs in first semester. UNLV offers no part-time undergraduate B.S. nursing degrees.

B.S. in Nursing
Students must first be admitted into pre-nursing (PRN) and have a cumulative grade point average of 2.50. Students with a GPA between 2.00 and
2.50 may be admitted as nursing probationary students.

Students are eligible for admission to the nursing major (NUR-4YR) when a UNLV GPA of 3.00 is established and the student has earned a B (3.00) in the following prerequisites:

MATH 120 - Fundamentals of College Mathematics or higher (except MATH 122, 123, 132), BIOL 223 - Human Anatomy and Physiology I and BIOL 224 - Human Anatomy and Physiology II), BIOL 251 - General Microbiology, NURS 299 - Nutrition and Development Across the Lifespan and has earned a minimum of a C (2.00) in all other general education and prerequisite courses. For acceptance into the nursing program, the B (3.00) grade in the identified courses must be earned in either the first or second enrollment, including a withdrawal or audit in the course. In addition, students will be required to complete the HESI A2 Entrance Exam prior to admission to the nursing program. Students must achieve a 75% average or higher on their first or second completion of the A2 exam to be eligible for admission. UNLV pre-nursing students are required to take only four HESI A2 sub-exams: Math, Grammar, Reading Comprehension and Anatomy & Physiology. A 75% average or higher must be obtained on all sub-exams to be eligible to apply. To be admitted into the School of Nursing, 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 a K-12 (or equivalent) education in schools where English was not the medium of instruction. Admission will only be considered if the student scores a 100 points or above on the TOEFL iBT (internet) language proficiency exam. This is the only proficiency exam the SON will accept. Students may formally apply three times a year. Eligibility is verified by a pre-nursing advisor in the Division of Health Sciences Advising Center Classroom Education Building (CEB 399) during a mandatory in-person BSN signing appointment. Please call (702) 895-5448 to schedule an appointment. Students are rank ordered based on the GPA of their required science, math and NURS 299 courses, number of times courses are repeated, and the results of the HESI A2 Entrance Exam. Admission will be offered to those students achieving the highest rank scores first until all openings are filled. Refer to the admission ranking worksheet which is available online at http://www.unlv.edu/sites/default/files/24/Nursing-CalculationWorksheetUpdated-2013.pdf or at the Division of Health Science Advising Center. Students not accepted must reapply for admission in subsequent semesters. Policies regarding process for notification and response are also available on the School of Nursing website.

Transfer Policies

B.S. in Nursing

Transfer students may gain admission eligibility into pre-nursing (PRN) via several routes. If the transfer GPA is 3.00 or above and the prerequisite course work has been completed with the required grades, the student will be admitted into the B.S. nursing program based on rank scoring as noted above. If the transfer GPA is 2.50-2.99, nine credits of UNLV core requirements or prerequisite course work at UNLV must be completed with a GPA of 3.00. If the transfer GPA is 2.00-2.49, students must complete a probationary contract in which 15 UNLV core requirements or prerequisite course work must be completed with a 3.00 GPA to remove the probationary status. Transferring into the program from another nursing program is considered on a case-by-case basis. Transfer students must have a letter of "good academic standing" from their prior School of Nursing Dean sent directly to the School of Nursing Associate Dean of Academic Affairs.

Nursing Student Handbook

Students accepted into the B.S. in Nursing Program should obtain a copy of the Nursing Student
Handbook from the School of Nursing website for identification of additional policies and procedures. Students are accountable for observing the policies in the handbook. Prior to beginning nursing courses, students will be asked to:

1. Sign a waiver releasing the School of Nursing and the University of Nevada, Las Vegas, from responsibility for injury or illness resulting from exposure to disease, medicines, or treatments while in the clinical setting.
2. Evidence of IGRA blood testing (QuantiFERON-TB Gold in tube (QFT)); or Evidence of chest x-ray and medical follow-up for those with past history of positive reactivity.
3. Provide documentation of measles, mumps, rubella, varicella diphtheria and tetanus immunizations according to the most recent CDC guidelines. While attending the program, the vaccinations must be within the 10-year time frame.
4. Provide evidence of completion of the hepatitis B vaccine series, a titer indicating presumptive immunity, or a statement from a health care provider indicating that the vaccination is contraindicated for health reasons.
5. Provide evidence of the flu shot every fall.
6. Provide documentation of physical examination within one year prior to admission to nursing program demonstrating the student's ability to perform the essential functions of the registered nurse, with or without reasonable accommodations (Essential functions can be found on the School of Nursing website.)
7. Provide evidence of a negative drug screen. Further information provided in the nursing orientation.
8. Provide certification of completion of BLS health care provider skills offered by the American Heart Association.
9. Complete a criminal background check as identified on the School of Nursing website.
10. Provide evidence of current health insurance. The student is responsible to determine that health insurance coverage includes provisions of a needle stick or other high-risk exposure in the clinical setting, as well as the cost of anti-HIV drugs if warranted. Proof of health insurance coverage is required each semester.

Credit
Clinical contact hour ratio: one credit = three contact hours.

Progression
To progress in the B.S. in Nursing Program, students must achieve a minimum of a C (2.00) in each of the required nursing courses. If a student receives less than a C (2.00) in a nursing class and it is the first occurrence, the student will be allowed to repeat the nursing course. (The student must renegotiate the nursing program contract and will be placed in the needed course at the next opportunity that class space is available. If a student is unsuccessful in an additional course with the NURS prefix (in the same semester or later semesters), the student will be dismissed from the school. Unsuccessful is defined as:

1. Dropping a class in which the student has an average below C at the date of withdrawal from classes.
2. Completion of the course with a grade average below C (2.00).
3. An F grade resulting from failure to withdraw from the class.
4. Having an average below C (2.00) at the time of complete withdrawal from the university.
5. Failing the clinical portion of a clinical course.

Reinstatement to the baccalaureate program requires approval of the School of Nursing Student
Affairs Council. If reinstatement is recommended, the recommendation may include stipulations. Reinstatement is not automatic and is dependent upon the student's total record of performance. The privilege of reinstatement is granted only once.

If the failed course in which the student was unsuccessful is a prerequisite or co-requisite (requiring concurrent enrollment) to other nursing courses, as identified in the current catalog, the student will not be allowed to progress. All prerequisite or co-requisites must be successfully completed prior to progression to any course scheduled in subsequent semesters. This policy would affect students as illustrated in the following example: NURS 320 identifies the following courses as prerequisites (NURS 305, 306, and 307). If the student has not completed all of those courses with a satisfactory grade, he or she could not enroll in NURS 320.

Policies Specific to B.S. in Nursing
Incoming Student Orientation
Incoming students are required to attend a student orientation. At the orientation session, information concerning the program will be provided and student data collected.

Medication Calculation Policy
Students must demonstrate continuing and growing competence in medication calculation specific to various clinical areas. The student must demonstrate on a designated exam a grade of 100% in each course that has a clinical component. If 100% score is not obtained in three attempts, the student will not progress to the following semester.

Standardized Competency Exams
Undergraduate students participate in a standardized testing program throughout the nursing program. Selected tests are required each semester and are calculated as part of the student's final grade. See the BSN Student Handbook for procedural aspects of this policy.

Fees
Students will be assessed course fees each semester.

Advisement
After admission to the nursing program, all students will be assigned a nursing advisor from the undergraduate nursing faculty. Students are encouraged to meet with their advisor once a semester or as needed.

Nursing Major - Bachelor of Science (BS)
Please see the UNLV School of Nursing web page at www.unlv.edu/nursing for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-nursing.

Please see advising information at the UNLV Division of Health of Sciences Advising Center at www.unlv.edu/nursing/student-resources/advising.

The School of Nursing's undergraduate nursing program has patient-centered care at the core of the curriculum. The School of Nursing offers three subplans for a Bachelor of Science degree in Nursing. Each plan is intense and demanding. Students must complete all prerequisite courses before taking the nursing courses. The Bachelor of Science in Nursing prepares students for entry level nursing practice, as well as future graduate study.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Program - Commission on Collegiate Nursing Education (CCNE) www.aacn.nche.edu/ccne-accreditation
Learning Outcomes
1. Use emerging patient care technologies and information systems to support safe, effective nursing practice.
2. Integrate leadership concepts, skills and decision-making in the provision of high-quality nursing care delivery in a variety of settings.
3. Apply knowledge of healthcare policy, finance and regulatory environments, including local, state, national and global healthcare trends in nursing practice.
4. Integrate professional values, attitudes, knowledge, and behaviors into nursing practice.
5. Demonstrate sound clinical judgment in the planning, provision, and evaluation of evidence-based nursing care at the individual, group, and community levels.
6. Demonstrate effective inter- and intra-professional communication and collaboration for improving patient outcomes.
7. Apply principles that enhance safety for patients and health care providers through both individual performance and system effectiveness.
8. Use clinical prevention strategies to promote health and prevent disease across the life span at the individual and population levels.

Admissions Requirements
Minimum Requirements for Application for Traditional BSN:
1. Completion of all prerequisite courses or enrollment of last remaining prerequisite courses listed on Pre Nursing worksheet.
2. A minimum cumulative 3.0 GPA is required to apply to the Nursing program. If no UNLV GPA has been earned, then the cumulative GPA from all other schools attended will be used.
3. A minimum "B or higher" within two (2) attempts is required for MATH 120 or higher, BIOL 223, BIOL 224, BIOL 251, and NURS 299. Withdraws "W" and Audits "AD" count as attempts.
4. A minimum "C or higher" is required for all other courses listed. Complete the HESI A2 Entry Exam with a minimum 75% or higher in all subject areas within two (2) attempts (Anatomy & Physiology, Grammar, Reading Comprehensive, Math)
5. A review of all prerequisite courses must be completed by an academic advisor to confirm eligibility for admission. Call (702) 895-5448 to schedule an appointment.
6. Once minimum requirements are met, the student must complete the HESI A2 Entry Exam with a minimum 75% or higher in all subject areas (Anatomy & Physiology, Grammar, Reading) within two (2) attempts.

Minimum Requirements for Application for RN-BSN Track:
1. Must have a current RN license in U.S. state/territory or locale where student will complete clinical requirements.
2. Completion of all prerequisite courses or enrollment of last remaining prerequisite courses listed on Pre Nursing worksheet.
3. A minimum cumulative 3.0 GPA is required to apply to the Nursing program. If no UNLV GPA has been earned, then the cumulative GPA from all other schools attended will be used.
4. A minimum "B or higher" within two (2) attempts is required for MATH 120 or higher, BIOL 223, BIOL 224, BIOL 251, and NURS 299. Withdraws "W" and Audits "AD" count as attempts.
5. A minimum "C or higher" is required for all other courses listed. Complete the HESI A2 Entry Exam with a minimum 75% or higher in all subject areas within two (2) attempts (Anatomy & Physiology, Grammar, Reading Comprehensive, Math)
6. A review of all prerequisite courses must be completed by an academic advisor to confirm eligibility for admission. Call (702) 895-5448 to schedule an appointment.
7. HESI A2 Entry Exam is waived based on previous nursing degree.
University Graduation Requirements

- Please see Graduation Policies for complete information.

Nursing Degree Requirements - Total: 122 Credits

General Education Requirements - Subtotal: 36 Credits

First-Year Seminar - Credits: 2

(see note 1)

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

- PSC 101 - Introduction to American Politics
- or
- HIST 100 - Historical Issues and Contemporary Society

Mathematics - Credits: 3

- MATH 124 or MATH 120 (see note 2)

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

Humanities and Fine Arts: 9 Credits

Spanish course preferred - 3 credits

One 3 credits course from a different humanities area.

One introductory or appreciation course from a fine arts area

Social Science: 9 Credits

- PSY 101 - General Psychology
- SOC 101 - Principles of Sociology

plus 1 additional 3 credit class other than PSY or SOC courses

Life and Physical Sciences and Analytical Thinking:

- Automatically satisfied by Major requirements
- Multicultural and International
- NURS 299, Multicultural International
- International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: https://www.unlv.edu/provost/multicultural-requirements

Major Requirements - BS in Nursing - Traditional BSN Track - Subtotal: 86

Additional courses - Credits: 3-4

Select one course from the following

- ECON 261 - Principles of Statistics I
- KIN 200 - Statistics for the Health Sciences
- STAT 152 - Introduction to Statistical Methods
- SOC 404 - Statistical Methods in the Social Sciences

Sciences - Credits: 23

- BIOL 189 - Fundamentals of Life Science
- BIOL 251 - General Microbiology
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- CHEM 108 - Introduction to Chemistry
- NURS 299 - Nutrition and Development Across the Lifespan
Nursing Core Requirements - Credits: 60

- NURS 305 - Patient Centered Care: Basic Principles
- NURS 306 - Foundations in Pharmacology
- NURS 307 - Health Assessment of Diverse Populations
- NURS 313R - Nursing Care of the Adult Medical-Surgical Patient
- NURS 320 - Pharmacology and Pathophysiology Across the Lifespan
- NURS 325 - Professional Communication in Diverse Health Care Settings
- NURS 329 - Physical Assessment Skills
- NURS 342 - Fundamentals of Nursing Lab
- NURS 350 - Population Focused Nursing in the Community
- NURS 401 - Nursing Care of Older Adults (see note 3)
- NURS 405 - Nursing Care of Women and Childbearing Families
- NURS 406 - Nursing Care of Childrearing Families
- NURS 419 - Care of Individuals and Their Family Experiencing Emotional or Mental Health Disruptions
- NURS 420 - Evidence Based Practice and Research in Nursing
- NURS 425 - Managing Complex Nursing Care in Diverse Populations
- NURS 427 - Nursing Leadership and Transition into Practice

Total Credits: 122

Notes:
HSC 100 fulfills the First Year Seminar requirement.

- Mathematics course requirement depends on the track; MATH 124 is required of the traditional BSN, MATH 120 required of the RN-BSN Track.
- Students in traditional BSN take 5 credits of NURS 401.
- NURS 307 will require NURS 329 Physical Assessment Skills 1 credit hour.

Major Degree Requirements - BS in Nursing - RN-BSN Track – Sub total: 86 Credits

The Degree Completion (RN to BSN) track is for individuals who are working as registered nurses and want to earn a bachelor's degree in nursing. Course work can be completed within 1 year of full-time study. Upper division course credit is offered via transcript evaluation from an applicant's Associate Degree in Nursing program. Within this track, the student has the option of completing 9 credit hours at the graduate level which allows the RN-BSN student to have an accelerated option in our graduate program should they decided to apply to our graduate program after completing the RN-BSN track.

Sciences - Credits: 23

- BIOL 189 - Fundamentals of Life Science
- BIOL 251 - General Microbiology
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- CHEM 108 - Introduction to Chemistry
- NURS 299 - Nutrition and Development Across the Lifespan

Nursing Core Requirement - Credit: 60-63

The following NURS courses may receive transfer credit from Associate Degree in Nursing programs or may be waived per department based on transcript evaluation:

- NURS 305 - Patient Centered Care: Basic Principles
- NURS 313R - Nursing Care of the Adult Medical-Surgical Patient
- NURS 325 - Professional Communication in Diverse Health Care Settings
- NURS 342 - Fundamentals of Nursing Lab
- NURS 405 - Nursing Care of Women and Childbearing Families
- NURS 406 - Nursing Care of Childrearing Families
- NURS 419 - Care of Individuals and Their Family Experiencing Emotional or Mental Health Disruptions
- NURS 425 - Managing Complex Nursing Care in Diverse Populations

Courses to complete at UNLV (30 Credits):

- NURS 418 - Transitions in Nursing
- NURS 420 - Evidence Based Practice and Research in Nursing
- NURS 420S - Statistics in Nursing
- NURS 350 - Population Focused Nursing in the Community
- NURS 401 - Nursing Care of Older Adults (see note 3)
- NURS 443 - Nursing Leadership and Management Theory

RN to BSN Students will take the following courses for 9 credit hours to meet the BSN Pharmacology, Pathophysiology and Health Assessment requirements:

- NURS 306 - Foundations in Pharmacology
- NURS 307 - Health Assessment of Diverse Populations (see note 4)
- NURS 320 - Pharmacology and Pathophysiology Across the Lifespan

However, the RN-BSN may choose to take the following 9 Master's credit hours to meet the Pharmacology, Pathophysiology and Health Assessment requirements (see note 5):

- NURS 703 - Advanced Health Assessment
- NURS 704 - Advanced Pathophysiology and Genetics I
- NURS 730 - Advanced Pathophysiology and Genetics II

Electives - Credits: 0-3

Students may need elective credits to graduate.

Total Credits: 122

Notes:

1. HSC 100 fulfills the First Year Seminar requirement.
2. Mathematics course requirement depends on the track; MATH 124 is required of the traditional BSN, MATH 120 required of the RN-BSN Track.
3. Students in RN-BSN Track take 3 credits of NURS 401.
4. NURS 307 will require NURS 329 Physical Assessment Skills 1 credit hour.
5. NURS 703, 704, 730 are Master's level credit.

Nursing

NURS 140 - Medical Terminology

Study of word derivation and formation with emphasis upon the understanding of common usage in the field of health care.

Credits: 3

NURS 299 - Nutrition and Development Across the Lifespan

Focuses on application of health promotion and normal growth and development principles and the science of nutrition in health across the lifespan, emphasizing sociocultural factors within the United States. Theory = 3 credits.

Prerequisite(s): Must achieve a grade of "B" or better in BIOL 223 or BIOL 224.

Notes Satisfies Multicultural Requirement. Credits: 3

NURS 305 - Patient Centered Care: Basic Principles

Introduction to nursing practice emphasizing application of the nursing process, critical thinking, psychomotor skills, communication skills, and documentation. Provides content on selected common disorders. Explores historical and theoretical perspectives of nursing as a profession, with introduction of ethical-legal decision-making.

Emphasizes need for evidence-based practice and use of informatics in nursing. Theory = 4 credits, clinical = 2 credits.

Credits: 6

Corequisite(s): NURS 342. Prerequisite(s): NURS 299 and program contract.
NURS 306 - Foundations in Pharmacology
Introduces the student to basic pharmacokinetics, pharmacodynamics, pharmacoeconomics, and the relationship between pathophysiology and pharmacologic management. Emphasis on introductory principles and nursing management of drug therapy related to NURS 305. Theory = 3 credits. Credits: 3
Prerequisite(s): NURS 299 and program contract.

NURS 307 - Health Assessment of Diverse Populations
Acquisition of skills to perform a holistic patient assessment - including sociocultural, spiritual, family, and complete physical assessment. Normal assessment findings emphasized; however, health risk factors and common abnormalities discussed. Theory = 3 credits. Credits: 3
Corequisite(s): NURS 329. Prerequisite(s): NURS 299 and program contract.

NURS 313R - Nursing Care of the Adult Medical-Surgical Patient
Focus on development of professional, patient-centered care for acutely ill patients. Emphasis is placed on applying sound clinical judgment in the planning, provision, and evaluation of evidence-based nursing care. Clinical experience will occur in acute settings with acutely ill adults. Theory = 4 credits, clinical = 3 credits. Credits: 7
Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342.

NURS 320 - Pharmacology and Pathophysiology Across the Lifespan
Examines the pathologies from selected body systems across the lifespan. Pharmacology appropriate to the pathologies will be studied. Content will expand upon knowledge learned from NURS 306. Theory = 2 credits. Credits: 2
Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342.

NURS 322 - Identification and Assessment in Addictions
(Same as COU 427.) How to identify and assess individuals with addictions. Epidemiological, pathological, physiological and cultural basis of addictions across the life-span examined. Includes assessment/screening tools, motivational interviewing, the family system, enabling and resource and referral system. Credits: 3
Prerequisite(s): COU 320.

NURS 325 - Professional Communication in Diverse Health Care Settings
Explores issues related to professional communication within diverse health care settings. Considers innovative and evidence-based strategies that enhance communication and relationship building skills for nurses. Develops abilities to effectively communicate with patients and other health care professionals. Theory = 2 credits. Credits: 2
Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342.

NURS 329 - Physical Assessment Skills
Acquisition of skills (inspection, palpation, percussion, and auscultation) needed to perform a comprehensive physical assessment. Interviewing techniques and documentation skills will be developed. Normal assessment findings emphasized; however, health risk factors and common abnormalities discussed. Credits: 1
Prerequisite(s): NURS 307.

NURS 342 - Fundamentals of Nursing Lab
Formerly Listed as NURS 388. Learner directed skills course where students come prepared to practice and perform designated nursing skills in a safe environment. Students apply collaboration, critical thinking, problem solving, peer and self-evaluation, and documentation as they practice the designated nursing skills. Credits: 1
Corequisite(s): NURS 305.

NURS 350 - Population Focused Nursing in the Community
Concepts of population-focused health care used to promote health across diverse groups of persons defined by socio-demographic and geographic boundaries. Content is focused on partnering with communities to assess health data within a community health model of care. Clinical experience occurs in laboratory and community settings with culturally diverse populations. Theory = 2 credits, clinical = 2 credits.
Credits: 4
Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342.

NURS 401 - Nursing Care of Older Adults
Formerly Listed as NURS 319. Apply theories, concepts, and evidence-based practices in care for older adults. Recognize personal and societal attitudes regarding aging and their impact on delivery and quality of health care and the impact of age-related changes and morbidity on illness, treatment, and rehabilitation.
Clinical experiences in health care and community settings. Theory = 3 credits, clinical = 3 credits. Credits: 6
Prerequisite(s): NURS 313R, NURS 320, NURS 325, NURS 350.

NURS 405 - Nursing Care of Women and Childbearing Families
The examination and application of the theories of maternal-child centered nursing care from pregnancy to labor and delivery, postpartum and newborn nursery. Emphasis is on acute care and health promotion in the maternal-child clinical setting. Clinical experience will be primarily in the acute care inpatient setting.
Theory = 1.5 credits, clinical = 1.5 credits. Credits: 3
Prerequisite(s): NURS 313R, NURS 320, NURS 325, NURS 350.

NURS 406 - Nursing Care of Childrearing Families
This course focuses on the examination and application of the theories of family centered nursing care from infancy through adolescence. Emphasis is on health promotion.
Clinical experience will be primarily in the acute care inpatient setting and community. Theory = 2 credits, clinical = 2 credits.
Credits: 4
Prerequisite(s): NURS 313R, NURS 320, NURS 325, NURS 350.

NURS 419 - Care of Individuals and Their Family
Experiencing Emotional or Mental Health Disruptions Implement holistic, patient centered care based on an understanding of human growth and development, pathophysiology, behavioral health regimens, pharmacology, communication skills and nursing interventions with children, adolescents and adults experiencing major emotional or mental health disruptions.
Theory = 2 credits, clinical = 2 credits.
Credits: 4
Prerequisite(s): NURS 401, NURS 405, NURS 406, NURS 420.

NURS 420 - Evidence Based Practice and Research in Nursing
Formerly Listed as NURS 418. Evidence-based Practice and Research is the study of the foundations upon which scientific investigations of health are based. Emphasis is on evidence-based practice, including research methodologies, processes and critical appraisal of the health care literature. This course is on-line and/or a combination of on-line and traditional in-person classroom formats. Theory = 3 credits.
Credits: 3
Prerequisite(s): Undergraduate statistics, NURS 313R, NURS 320, NURS 325, NURS 350.

NURS 422 - AIDS: An Interdisciplinary Perspective
(Same as HED 422 and SWK 422.) Interdisciplinary survey of various issues surrounding AIDS (Acquired Immune Deficiency Syndrome) as viewed from several conceptual, professional, and
experiential disciplines. Offers the most current cognitive information about AIDS and provides an affective awareness of major issues related to the disease.
Credits: 3
Notes This course is crosslisted with NURS 622. Credit at the 600-level requires additional work.

NURS 425 - Managing Complex Nursing Care in Diverse Populations
This course focuses on the provision of professional nursing care to patients with complex health problems. Emphasis is placed on use of the nursing process with individuals and families in primary, secondary and/or tertiary settings. Theory = 3 credits, clinical = 4. Credits: 7
Prerequisite(s): NURS 401, NURS 405, NURS 406, NURS 420.

NURS 427 - Nursing Leadership and Transition into Practice
Apply leadership concepts, skills, and decision making in implementing high quality nursing care, healthcare team coordination, and the oversight and accountability for care delivery in a variety of settings. Explore the pathway to licensure, job preparation and succeeding in practice settings. Theory = 3 hours, clinical = 1 hour.
Credits: 4
Corequisite(s): NURS 425.
Prerequisite(s): NURS 401, NURS 405, NURS 406, NURS 420.

NURS 473 - Health and Disease in Antiquity
( Same as ANTH 467.) Covers paleopathology, or, the study of disease in ancient populations. It provides an overview of morbidity 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, as well as from archaeological reconstructions of lifestyle and diet.
Credits: 3
Prerequisite(s): Any one of the following: ANTH 102, BIOL 100, BIOL 121, BIOL 189 or BIOL 223, or NURS 299 or equivalent.

NURS 474 - Medical Anthropology
( Same as ANTH 426.) Provides a broad overview of medical anthropology, covering such bicultural topics as disease and human evolution and ecology of disease, as well as culturally centered approaches in the field, including ethno medicine (culture-specific conceptions of health and illness), healers in cross-cultural perspective, and medical anthropology practiced in clinical and public health settings.
Credits: 3
Prerequisite(s): ANTH 101 or ANTH 102.

NURS 486 - Gerontology
Study of age-related changes of the elderly relevant to their needs and delivery of health care.
Credits: 3
Prerequisite(s): Upper-division standing. Notes Satisfies Multicultural Requirement. This course is crosslisted with NURS 686. Credit at the 600-level requires additional work.

NURS 490 - Special Topics in Nursing
Information related to broad topic areas. Separate units focus on aspects of a) Medical Nursing, b) Surgical Nursing, c) Psychiatric Nursing, d) Obstetrical Nursing, e) Pediatric Nursing, f) Gerontological Nursing, g) Research in Nursing, i) The Profession of Nursing, j) Specialty Areas in Nursing, k) Preventative Aspects of Health Care. Other specific topic areas published in class schedules.
Credits: 1-3
Prerequisite(s): Upper-division standing.

NURS 498 - Independent Study
Independent research projects under faculty supervision. Credits: 1-3 May be repeated to a maximum of nine credits.
**Honors College**

**Purpose and Focus**
The Honors College plays a unique role in UNLV's educational mission. It is a selective undergraduate college that offers an educational experience focusing on a solid liberal arts and sciences foundation, but in the context of a major research university with extensive academic and cultural opportunities. The Honors College is an educational partner with the "discipline" colleges of the University, in which Honors students pursue their academic majors. The combination of a central intellectual core in Honors, combined with advanced learning in a major field, helps fully develop graduates prepared for graduate education, professional school, and rewarding life careers. With a diverse student body, a strong curriculum taught in collaboration with UNLV's outstanding faculty, intense advising, research, service and leadership opportunities, scholarships and special residential arrangements, the Honors College offers an exceptional value in higher education. The College attracts excellent students from around the globe who together with faculty and staff form a unique learning community supporting educational achievement and excellence.

**Objectives of the Honors College**
The Honors College prepares students for academic, professional, and personal success after they graduate from UNLV. That preparation is achieved through one curriculum for University Honors and a separate curriculum for Research and Creative Honors that:

- Strengthens written and oral communication skills.
- Strengthens inquiry and critical-thinking ability.
- Develops abilities to analyze carefully and synthesize a broad range of information.
- Develops intellectual breadth and instills patterns of behavior that lead to lifelong learning.
- Prepares informed, engaged, ethical citizens who possess global and multicultural awareness.
- Allows students to create and produce original research and creative works in collaboration with faculty members.

**College Programs**
Students in the Honors College enroll in the University Honors or Research and Creative Honors programs, or both. University Honors students complete the University Honors Curriculum, which automatically satisfies the General Education Core, Distribution, Multicultural, and International requirements of UNLV. Research and Creative Honors students complete a special research or creative project culminating in a senior thesis within their major disciplines. All Honors College students complete a series of interdisciplinary seminars taught by outstanding UNLV faculty members. These programs are described in more detail later in this section.

**Advising**
The Honors College has extensive personal advising, with full-time academic advisors and other staff who support students' work toward their career goals.

**Pre-Professional Students and Students Planning Post-Graduate Study**
Many students in the Honors College plan to attend professional or graduate schools. The Honors College focuses on preparing Honors College students to apply for various types of postgraduate studies, with our graduates attending many of the best professional and graduate schools in the country. Pre-professional advising, advising for pre-law studies through the College of Liberal Arts, and one-on-one advising are important components in developing student success.
Admission to the College
The Honors College Admissions Committee considers applications to the Honors College at any time, but applications for Fall submitted by the date of November 1 receive scholarship priority consideration. The goal of the College is to admit excellent, committed, and academically talented students who will succeed in and benefit from the College’s rigorous curriculum and programs. Each candidate for admission has a unique record of achievement, in the context of his or her life experiences, and will therefore be individually evaluated. The College Admissions Committee considers application essays, high school transcripts (considering the difficulty of the courses taken, the nature of courses taken, and grade trends, among other elements), extracurricular activities, letters of recommendation, and college admission test scores. In some cases, candidates are asked to interview. These criteria are designed to select fine students who will enhance their demonstrated talents in the context of a diverse college of excellent peers. The College expects that applicants will display in their applications strong academic abilities, advanced writing skills, a critical intellect, and a commitment to excellence, leadership potential, and educational values.

First year applicants to the College must submit an essay, two letters of recommendation, high school and any college transcripts, ACT or SAT test scores, and a summary of activities in which they have participated. Applicants should know that a large number of applications are submitted to the College and the limited ability to accommodate new students make the admissions process competitive. Therefore, it is expected that students will provide their best work.

Transfer and current non-honors UNLV students are required to submit transcripts of all post-secondary work completed, a writing sample, and one letter of reference from a college or university faculty member. Transfer students are expected to have at least a 3.50 overall GPA from the institutions from which they are transferring. Non-honors UNLV students who apply are expected to have at least a 3.50 overall GPA from courses taken at UNLV.

Scholarships
The Honors College administers scholarships funded by special endowments to the College on a competitive basis, with priority consideration given to applications received by November 1. A number of scholarships are available to incoming freshmen, and others are made available to transfer and continuing students, depending on available funding. Nevada residents may be eligible for State of Nevada Millennium Scholarships and can receive it along with scholarships from the Honors College. Additionally, UNLV has a number of academic scholarships for which honors students typically compete with great success. The university's top scholarships are independently awarded to students in the Honors College by the Financial Aid and Scholarship Office. Contact the Honors College for further information.

Nationally and Internationally Competitive Awards
Each year, students from across the United States apply for a select group of awards and fellowships to support their undergraduate and graduate efforts. Because there are few of these relative to the number of students applying, they are highly competitive, and therefore, very prestigious. Students who receive such scholarships demonstrate potential for great success in their postgraduate studies and subsequent careers.

The Honors College provides information about and advice on how to apply for major national and international scholarships and fellowships. Scholarships and fellowships the Honors College coordinates, among others, are the Rhodes, British Marshall, Mitchell, Truman, Goldwater, the
National Science Foundation’s Graduate Research Fellowship Program, Rotary Ambassadorial, Udall, Gaither Junior Fellows, and Gates-Cambridge Scholarships. The Honors College is committed to working with new and continuing students to prepare them to apply for these scholarships at appropriate times during their college years. The college also provides this type of support for UNLV students who are not in the Honors College.

Other awards for which Honors College students are often competitive (e.g., Fulbright, Boren and Gilman) are administered by the International Programs Office at UNLV.

Interested students should contact the Honors College or visit the Honors College website for more information.

**Academic Policies**

Students must remain in good standing in the Honors College in order to retain their Honors College scholarships and to receive the benefits of Honors College participation.

Students in good standing satisfy the following conditions:

- Enroll as a student at UNLV or participate in an official UNLV educational program (e.g., study abroad, student teaching, special internships) during each semester of the academic year from their admission until graduation, unless special arrangements are made with the Honors College.
- Complete an average of three Honors College credit hours during each semester they are registered as full-time students at UNLV, unless special arrangements are made with the Honors College.
- Maintain an overall GPA of 3.30. Maintain a minimum GPA of 3.00 in HON-prefix classes.

**Honors and Second Degree Seeking Students**

The Honors College allows former UNLV Honors students who are pursuing a second baccalaureate degree to receive University Honors on their second diploma if the good standing conditions for University Honors are met during the second degree.

Second degree seeking students will enjoy the benefits of other honors students, including use of the Honors Suite and priority registration, but will not be eligible for Honors College scholarships.

Research and Creative Honors may not be earned by second-degree seeking students unless a new thesis in the new major is completed. Please see the Associate Dean of the Honors College for details.

**Probation and Suspension**

Students GPA's are evaluated at the end of every academic year to determine whether or not students are in good standing, as per the conditions stated above. Students who are not in good standing are placed on probation for one academic year or suspended from the Honors College. Below are conditions for suspension and probation.

Any one of the following conditions results in suspension:

- UNLV GPA below 2.00 at the end of freshman year (defined by their time of residence)
- UNLV GPA below 2.50 at the end of subsequent years (sophomore, junior, senior)
- Failure to complete an average of 3-credit hours of Honors College courses each semester (until all such courses are completed)
- Failure to raise UNLV GPA to at least 3.30 after a one-year probation period
• Failure to raise Honors College GPA to at least 3.00 after a one-year probation period
When suspended, students will lose priority registration and all other Honors College privileges. Students who have been suspended from the Honors College may petition the college for readmission. Any such petitions will be considered by the Honors College Admissions Committee and Dean of the College.

Any one of the following conditions results in probation:

• UNLV GPA below 3.30
• Honors College course GPA below 3.00
Probation lasts for one academic year and will be lifted at the end of the academic year if the student raises their UNLV GPA to at least a 3.30 and their Honors College course GPA to at least a 3.00.

Repeating HON 400 Seminars
The College does not recommend the repeat of HON 400 seminars because the intent of the curriculum is to encourage continuing exploration of diverse realms of knowledge and inquiry. Any Honors student wishing to repeat an HON 400 seminar as provided for in the university’s academic policies must register for an offering of the same subject title as listed in the original and the current UNLV class schedule. This is, in any case, an unlikely probability as HON 400 seminars differ from year to year and many are only given once.

Graduation Honors and Latin Honor Designations
Students who successfully complete the Honors College programs graduate with honors if they:

• Complete the requirements for the University Honors and/or the Research and Creative Honors program, the requirements of their major, and applicable UNLV graduation requirements.
• Graduate with a final GPA of at least 3.30
• Graduate with a final Honors College GPA of at least 3.00, and
• Graduate with at least 60 credits earned at UNLV.
The distinction University Honors and/or Research and Creative Honors will appear on final transcripts and diplomas.

Latin honors designations, Cum Laude, Magna cum Laude, and Summa cum Laude, which appear on final transcripts and diplomas, are awarded by the Honors College to college graduates as follows: Students graduating from the University Honors program graduate Cum Laude if their final GPAs are 3.50 - 3.69, Magna cum Laude if their final GPAs are 3.70 or higher. (Note: The Honors College awards Summa cum Laude only to students who complete the requirements for Research and Creative Honors Scholar.)

Students graduating from the Research and Creative Honors program graduate Cum Laude if their final GPAs are 3.30 - 3.49, Magna cum Laude if their final GPAs are 3.50 - 3.69, and Summa cum Laude if their final GPAs are 3.70 or higher and they receive a grade of A in HON 499.

Honors

Honors Core Requirements
Students admitted to the Honors College are admitted into University Honors, Research and Creative Honors, or both.

Students in University Honors are required to complete a minimum of 31 credits of HON-prefixed courses and to satisfy or test out of at least 12 credits of Foreign Language. Students entering University Honors directly from high school can satisfy most of the requirements in the Honors Core Curriculum with honors courses and at least 12 credits of Foreign Language. Students who enroll after entering UNLV or who transfer to UNLV may apply some of their regular courses toward the honors core but must still meet the 31-credit
HON requirement and the requirements in the core.

Students transferring from other honors programs or colleges can petition to have up to six honors credits earned at the previous institution applied towards the 31-credit requirement. Although advanced placement and international baccalaureate credits earned by an appropriate score as defined elsewhere in this catalog can be used to replace certain honors courses, those credits do not count toward the 31-credit HON-prefixed minimum.

Students must fulfill the University Honors Curriculum in order to become University Honors Scholars. The University Honors Curriculum satisfies the university's General Education Core, Distribution, Multicultural, and International requirements.

Honors Requirements - Total: 50-57

All Honors College students must take the following nine classes:

- **Honors Orientation - Credits: 1**
  - HON 105 - Honors Orientation Seminar (must be taken during the first year)

- **English Composition and Literature - Credits: 9**
  - HON 100 - Honors Rhetoric (must be taken during the first year)
  - HON 110 - World Thought and Experience I
  - HON 115 - World Thought and Experience II

- **Honors Persuasive Speaking - Credits: 3**
  - HON 101 - Honors Public Speaking (must be taken during the first year)

- **HON 400 level classes, four separate classes - Credits: 12**

In addition, all UNLV students must satisfy the following, which may be satisfied within their major:

- **Mathematics - Credits: 3 or 4**
  - an appropriate math course (MATH 124 or higher), or
  - HON 124 - Honors College Algebra
  - HON 127 - Honors College Precalculus II
  - HON 181 - Honors Calculus I
  - HON 182 - Honors Calculus II

- **Life and Physical Sciences - Credits: 7 minimum**
  - (one must be a lab science course)
  - HON 230 - Scientific World View I
  - HON 231 - Scientific World View II
  - HON 280 - The Development of Science or approved Life and Physical Science courses as defined in the General Education section of this catalog.

- **Constitution Requirement - Credits 3**
  - HON 111 - Themes in American Civilization
  - HON 112 - Exploring American Politics or approved Constitution courses as defined in the General Education section of this catalog or approved General Education courses spelled out elsewhere in this catalog.

- **Social Science - Credits: 3**
  - HON 201 - Honors General Psychology
  - HON 202 - Honors Microeconomics
  - HON 203 - Honors Macroeconomics
  - HON 204 - Individual, Society, and Freedom
  - HON 205 - Honors Introduction to Cultural Anthropology or approved Social Science courses as defined in the General Education section of this catalog.

Courses used to satisfy the Constitutions requirement may not be used to meet the Social Science requirement.
Foreign Languages - Credits: 0-12  
(see note 2)

Fine Arts - Credits: 3
- HON 210H - Introduction to Performance or any HON 420 seminar or approved Fine Arts courses as defined in the General Education section of this catalog.

Multicultural - Credits: 3
- HON 440 - Special Topics Seminars - Multicultural (or any approved multicultural course)

Analytical Thinking - Credits: 0 - 3  
(see note 1)
- HON 102 - Honors Critical Thinking or
- PHIL 102 - Critical Thinking and Reasoning

Total Credits: 50-57

Certain approved classes can replace an HON 400 level seminar. Please see Honors College for more information.

Research and Creative Honors
Students in Research and Creative Honors take four 400 level seminars and complete a six-credit honors thesis/project during their senior year (HON 498 and HON 499). Many of the seminars can be used to satisfy general education core fine arts, international and multicultural requirements. The thesis/project may satisfy elective credits in the student's department.

Notes:
1. Depending on the students major, they may be required to take HON 102 or PHIL 102 - 3 credits.
2. Honors students have several options to complete this requirement. Students may take one language through intermediate level II, or two different languages through elementary level II. Students who test into 213 may take just 213 and 214 (6 credits); students that test into 214 may take just 214 (3 credits); students that test higher than 214 have satisfied Foreign Language and International requirements (0 credits). If a student takes Latin, they must complete a 3 credit class that satisfies the International requirement.

Honors

HON 100 - Honors Rhetoric
Study and practice of writing at the college level with the primary emphasis on persuasive rhetoric. Requirements include library research paper. Must be completed by the end of the student's first year in the Honors College.  
Credits: 3  
Prerequisites: Good standing in the Honors College.

HON 101 - Honors Public Speaking
Theory and performance work in extemporaneous and related persuasive speaking. Emphasis placed on developing critical thinking, research, and performance skills necessary for effective public speaking. Must be completed by the end of the student's first year in the Honors College.  
Credits: 3  
Prerequisites: Good standing in the Honors College.

HON 102 - Honors Critical Thinking
Introduction to analysis and evaluation of arguments, construction of logically sound arguments, and to logic as the theory of argument. Emphasizes arguments of current or general interest.  
Credits: 3  
Prerequisites: Good standing in Honors College.

HON 105 - Honors Orientation Seminar
Provides students in the Honors College with information about the college and the university. Major areas of focus are University and Honors College core requirements, campus resources,
campus organizations, various college presentations, and study skills. Must be completed during the student’s first semester in the Honors College.
Credits: 1
Prerequisites: Enrolled in the Honors College.
Notes: Fulfills First Year Seminar requirement. S/F grading only.

**HON 106H - Introduction to Literary Analysis**
Study of lyric, dramatic, and narrative techniques including metaphor and narrative form and distinctions among the literary kinds. Readings from masterworks of western culture, works in western culture often overlooked, and works from other less often-studied cultures.
Credits: 3
Prerequisites: Good standing in the Honors College.

**HON 110 - World Thought and Experience I**
Global survey of intellectual history as it relates to key concepts and ideas regarding the individual's place in society as sampled from different historical periods and across cultures.
Credits: 3
Prerequisites: Honors students only. Must complete HON 100 with a minimum grade of C.
Notes: Fulfills Second Year Seminar requirement.

**HON 111 - Themes in American Civilization**
Explores a very important question: "How did Americans become what they are in the early twenty-first century?" Traces the development of the American people within the broader framework of western civilization, using an analytical rather than factual approach. Satisfies both the United States and Nevada Constitutions requirements.
Credits: 3
Prerequisites: Good standing in the Honors College.

**HON 112 - Exploring American Politics**
Exploration of unique features of the American political system. Particular attention paid to federalism and the role of states in the American polity using theoretical and analytical approaches. Satisfies both the United States and Nevada Constitutions requirements.
Credits: 3
Prerequisites: Good standing in the Honors College.

**HON 115 - World Thought and Experience II**
Global survey of intellectual history as it relates to key concepts and ideas regarding the role of the collective in society as sampled from different historical periods and across cultures.
Credits: 3
Prerequisites: Honors students only. Must complete HON 100 with a minimum grade of C.
Notes: Fulfills Second Year Seminar requirement.

**HON 124 - Honors College Algebra**
In-depth coverage of equations and inequalities; relations and functions; linear, quadratic, polynomial, exponential, and logarithm functions; systems of linear equations and inequalities; matrices; sequences and series; in-depth coverage of equations and inequalities; relations and functions; linear, quadratic, polynomial, exponential, and logarithm functions; systems of linear equations and inequalities; matrices; sequences and series; binomial theorem.
Credits: 3
Prerequisites: Honors students only. A satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or with a minimum grade of C in MATH 96 or equivalent.
Notes: Duplicate credits cannot be earned for HON124 and MATH 124, MATH 126 or 128.

**HON 125 - Adventures in Data Analysis**
Introduction to the basic terminology and methods of both modern information technology and statistical methods, coupled with detailed examples from campus researchers and community practitioners of statistical applications, typically with reference to the computer technology required to support these analysis.
Credits: 3
Prerequisites: Honors students only. A minimum grade of C in either MATH 124 HON 124, or higher

**HON 127 - Honors College Precalculus II**

In-depth coverage of topics include circular functions, trigonometric identities and equations, conic sections, complex numbers, and discrete algebra.

Credits: 3

Prerequisites: Honors students only and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or a minimum grade of C in MATH 126 or equivalent.

Notes: Duplicate credits cannot be earned for HON124 and MATH 124, MATH 126 or 128.

**HON 140H - Honors Mathematics I**

Topics include the study of functions at the intermediate level, analytic geometry, matrices, linear programming combinatorics, discrete probability, and other topics with applications. Problem solving emphasized.

Credits: 3

Prerequisites: Good standing in the Honors College and MATH 127 or equivalent in high school.

**HON 141H - Honors Mathematics II**

Topics include differential and integral calculus maxima/minima problems, and other applications in probability and differential/difference equations. Problem solving emphasized.

Credits: 3

Prerequisites: HON 140H or equivalent.

**HON 181 - Honors Calculus I**

In-depth coverage of differentiation and integration of algebraic and transcendental functions including computational and physical applications.

Credits: 4

Prerequisites: Honors students only. A satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or a minimum grade of C in HON 127, MATH 127, MATH 128 or equivalent.

**HON 182 - Honors Calculus II**

Integration, polynomial approximations, sequences, series, and introduction to differential equations including computational and physical applications.

Credits: 4

Prerequisites: Honors students only and a minimum grade of C in HON 181 or MATH 181.

**HON 190 - Honors Introduction to Philosophy**

Study of selected philosophers or basic problems involving imaginative and critical interpretations of experience and reality.

Credits: 3

Prerequisites: Good standing in the Honors College.

**HON 201 - Honors General Psychology**

Introduction to psychology, including introductory treatment of sensation-perception-cognition, physiological psychology, learning, personality, development, social psychology, abnormal psychology, assessment, psychological interventions, and the history of psychology.

Credits: 3

Prerequisites: Good standing in the Honors College.

**HON 202 - Honors Microeconomics**

Considers how prices guide and direct economic activity under both perfect and imperfect competition. Consumer theory, producer theory, management decision making and government policy formulation. Theoretical models and their assumptions. Solving problems using the methodologies developed.

Credits: 3

Prerequisites: Honors students only. A satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or a minimum grade of C in HON 124 or MATH 124 or equivalent.

**HON 203 - Honors Macroeconomics**

Study of the relationships and implications of the level of employment and production, interest rates, inflation rate, government budget deficit and national debt, trade deficit and trade indebtedness,
international finance and exchange rates, long-run growth in productivity and living standards, and government policies that affect the macro economy.

Credits: 3
Prerequisites: Honors students only and a minimum C grade in ECON 102 or HON 202 or higher.

**HON 204 - Individual, Society, and Freedom**
Survey of the major approaches in the social sciences and humanities that deal with the relationship of the individual and the social milieu.
Credits: 3
Prerequisites: Good standing in the Honors College.

**HON 205 - Honors Introduction to Cultural Anthropology**
Survey of the nature of culture with emphasis on the variation in human behavior in contemporary societies, including a review on the alternative theoretical frameworks used to explain and interpret human variation.
Credits: 3
Prerequisites: Good standing in the Honors College.

**HON 206 - Interpersonal Communication within a Diverse Society**
This class covers both personal and professional relationships, including those with friends, family, romantic partners, and co-workers. Special emphasis will be placed on interpersonal interactions within and between diverse groups, with the goal of helping students become more effective intercultural communicators.
Credits: 3
Notes: Satisfies the Multicultural Requirement.

**HON 210H - Introduction to Performance**
Focuses on the nature of performance in a variety of disciplines in the fine and performing arts, including the visual arts, music, dance, theatre, film, and architecture. Disciplines covered vary from semester to semester.
Credits: 3
Prerequisites: Good standing in the Honors College.
Notes: Meets the general education fine arts requirement.

**HON 230 - Scientific World View I**
Examination of the scientific world view, including scientific methodologies and paradigms. Emphasis on the origin and development of the physical universe.
Credits: 4
Prerequisites: Good standing in the Honors College.

**HON 231 - Scientific World View II**
Continuation of HON 230, with emphasis on the earth and life.
Credits: 4
Prerequisites: Good standing in the Honors College and HON 230.

**HON 280 - The Development of Science**
Historical survey of science, emphasizing major developments leading to the application of mathematics and experimentation to theories about the natural world.
Credits: 3
Prerequisites: Good standing in the Honors College.

**HON 283H - Honors Calculus III**
Vectors, vector-valued functions, multivariable calculus, partial derivatives, and multiple integrals. Introduction to vector analysis (line and surface integrals, Green's and Stoke's Theorems, the Jacobian). Computational methods and physical applications emphasized.
Credits: 4
Prerequisites: Good standing in the Honors College and HON 182 or MATH 182.

**HON 299H - Honors Book Forum**
Faculty and students read selected works and interact in small discussion groups.
Credits: 1
Prerequisites: Good standing in the Honors College.
May be repeated to a maximum of eight credits.
HON 349H - Lessons in Leadership
Concepts, theories and case studies concerning the leadership of people in modern organizations as learned from lessons in popular writing, popular cinema, and history. Participation and observation and analyzing of leadership behavior.
Credits: 3
Prerequisites: Good standing in the Honors College.

HON 395 - Honors Internship
Students gain off-campus experience designed to familiarize them with different careers. Mentors are chosen from the business, medical, professional, and technical community in Las Vegas. Before registering for this course, students must have a proposal outlining the objectives of the mentorship signed by the mentor and student, and approved by the College.
Credits: (1-3)
Prerequisites: Good standing in the Honors College.
Notes: S/F grading only.
May be repeated to a maximum of three credits.

HON 410 - Special Topics Seminars
Opportunity for students and faculty to be innovative and explore a wide range of topics not covered by regular honors courses.
Credits: 3
Prerequisites: Good standing in the Honors College and any approved second year seminar.
May be repeated to a maximum of thirty credits with different topics.

HON 420 - Special Topics Seminars-Fine Arts
Seminar with a special topic approved to satisfy the UNLV Fine Arts Requirement.
Credits: 3
Prerequisites: Honors students only; any approved Second Year Seminar.
May be repeated to a maximum of thirty credits.

HON 430 - Special Topics Seminars-International
Seminar with a special topic approved to satisfy the UNLV International Requirement.
Credits: 3
Prerequisites: Honors students only and HON 498. Honors College approval.

HON 498 - Honors Thesis/Project I
Required senior thesis/project for students in Research and Creative Honors. Student works under the supervision of a faculty mentor and must have an approved Proposal Honors Project form on file with the Honors College before registering.
Credits: 1-3
Prerequisites: Honors students only. Honors College approval.
Notes: S/F grading only.

HON 499 - Honors Thesis/Project II
Required senior thesis/project for students in Research and Creative Honors. Students are required to give a presentation based on their thesis/project to an appropriate audience at UNLV.
Credits: 3
Prerequisites: Honors students only and HON 498. Honors College approval.
William F. Harrah College of Hospitality

Purpose and Focus
The William F. Harrah College of Hospitality provides students with one of the world's best programs in the preparation of students for the global hospitality and leisure services profession. Strong classroom academics are combined with focused internship and mentoring opportunities to provide a strong, applied educational foundation. In addition to the college facilities in Frank and Estella Beam Hall, the new Stan Fulton Building houses the International Gaming Institute. The city of Las Vegas offers students the "World's Greatest Laboratory" of opportunities to acquire professional experience in the hospitality and leisure services field.

Accreditation
Northwest Commission on Colleges and Universities
Professional Golfers' Association of America

Departments
Resort, Gaming, and Golf Management
Food & Beverage and Event Management
Hospitality Management

Majors, and Undergraduate Degrees
Hospitality Management — Bachelor of Science
  Gaming Management Concentration
  Meetings and Events Management
  Concentration
  Professional Golf Management Concentration
  Restaurant Management Concentration

Graduate Degree Programs
Hospitality Administration — Executive Master of Hospitality Administration (Online Program)
Hotel Administration — Master of Science
Hospitality Administration — Doctor of Philosophy

Admissions
New students who meet the university's admission requirements may apply and be admitted directly to a major within the College of Hotel Administration. Continuing students may request admission to the college through the change of major process by contacting the Office for Student Advising and making an appointment to meet with an academic advisor. Minimum GPA for change of major is 2.00.

International students must demonstrate English proficiency by providing a test score from the TOEFL, IELTS, or the institutional Michigan Test. Scores must meet the minimum standards listed below.

TOEFL — Overall score of 80 or higher with a minimum Writing score of 20 on the IBT version.
IELTS — Overall band of 6.5 with Writing score of 6.
UNLV Institutional Michigan Test score of 81 percent, with a Writing score of 40.

Transfer Policies
The university determines courses that will be accepted for credit. Some credits accepted by the university may not apply to the college's degrees specifically and, therefore, may not contribute to the student's academic progress.

No fewer than 30 credits in hotel administration course work must be earned at UNLV, regardless of credits transferred.

College Policies

Academic Policies
All required courses must be taken for a grade; the satisfactory/fail grading option may not be used except for courses that are only offered pass/fail. All college major and concentration required courses must be completed with a grade of C (2.00) or better.

Although the college offers summer courses, students should not rely on summer courses to meet graduation requirements.
Credits transferred from a two-year program (junior or community college credits) cannot be used to satisfy upper-division core requirements.

Failure to maintain a UNLV GPA of 2.00 will first result in probation. If the GPA is not elevated to 2.00 by the following full semester (spring/fall), the student will be suspended from the college for one year.

Failure to demonstrate satisfactory progress toward a degree in the College of Hotel Administration will cause a student to be placed on college probation or suspension.

Probation/Suspension Policy

Reasons for college suspension can include, but are not necessarily limited to, the following: overall UNLV GPA below 2.00, two or more semesters of work on academic probation, failure to take courses applicable to a degree in the College of Hotel Administration for two or more terms, academic misconduct, or failure to meet an academic contract.

Suspended students must complete a reinstatement petition to re-enter, regardless of the interval since last attendance, which will be reviewed by the College Academic Standards Committee. The committee will determine if the student is to be reinstated.

The college will not consider an application for readmission if the student has been suspended more than one time.

Appeals for administrative relief can be made to the dean of the College of Hotel Administration, to the University Academic Standards Committee, and to the provost, in succession.

Pre-Major Designation

A student may not enroll in upper-division required courses (300–400 level) until the completion of the pre-major in the College of Hotel Administration. All exceptions to this policy must be approved by the Office for Student Advising.

All students entering the College of Hotel Administration will be designated as a pre-major until they have completed the pre-major core and achieved an overall 2.00 GPA. Transfer students will also be designated as a pre-major regardless of the number of transfer credits until an evaluation of their transcripts is completed. Upon completion of the pre-major core, students must apply for acceptance to the advanced major by submitting an application to the Office for Student Advising. Students who have completed all but two of the courses will be permitted to enroll in upper-division required courses provided they are enrolled in the remaining two pre-major core courses during the same semester. Advisor approval is required. Application for the advanced major is still required.

The pre-major core for the Hotel Administration degree includes ENG 101, ENG 102, MATH 124, TCA 221, ECON 261, HMD 101, FAB 101, FAB 159.
Work Experience Requirement
In addition to general academic requirements, the Harrah College of Hotel Administration requires 1,000 hours of acceptable employment in the hospitality industry. This work experience will be evaluated qualitatively as well as quantitatively and must be consistent with the student’s major. See major requirements for additional information. The work experience requirement may be met during the school year or in summers. International students must go to the Office of International Students and Scholars to verify employment eligibility.

The work experience requirement differs from the college’s internship requirement. The work experience requirement requires the student to find a paid job but carries no academic credit and may be earned anywhere. The internship requirement is an approved and supervised experience supervised by the college faculty and valued at three academic credits.

Advisement
All students are advised through the college’s Office for Student Advising throughout their academic career as needed.

Policies concerning application for graduation and academic standards are available in the college’s Office for Student Advising.

Food Beverage and Event Management

FAB 101 - Food Service Sanitation I
Basic principles of food service sanitation and safety. Meets standards for National Sanitation Certification.
Credits: 1

FAB 159 - Food Service Operations Fundamentals
Basic principles of food production. Primary focus on culinary techniques, culinary mathematics, and kitchen operations.
Credits: 3
Prerequisites: FAB 101 and College of Hotel Administration majors, Nutrition PRE and Nutrition majors only
Notes: Lab fee required.

FAB 160 - Hospitality Purchasing
Basic principles of purchasing food, beverage, equipment, contract services, and supplies. Primary focus on product identification, supplier selection, and the ordering, receiving, storing, and issuing process.
Credits: 3
Prerequisites: FAB 159.

FAB 190 - Bartending
Basic class devoted to developing the skills necessary to function as a bartender in a hospitality operation. Hands-on course covering mixology of liquors and handling of all types of alcoholic beverages. Must be 21.
Credits: 3
Notes: Lab fee required.

FAB 333 - Culture and Cuisine
Explores foods and food ways of various cultural/ethnic groups. Considers origin and migration of foods and customs throughout the world. Studies food’s relationship to cultural groups, geographical location, social practices and economic well-being. Analyzes impact of multiple cultures on foods, food preparation, and food ways in the U.S.
Credits: 3
Prerequisites: ENG 101 or HON 100, and either FAB 159 or three credits of social science core requirements.
Notes: Satisfies the Multicultural Requirement. Lab fee required.

FAB 361 - Principles of Food Science
Basic scientific principles underlying the production of food products in commercial kitchens. Uses lecture, demonstrations, and lab exercises to
present the physical and chemical properties of food. Discusses the relationship of these properties to food preparation and recipe development.
Credits: 3
Prerequisites: FAB 101 and FAB 159, and NUTR 121 or NUTR 223.
Notes: Lab fee required.

**FAB 362 - Distilled Spirits and Liqueurs**
Distilled spirits manufacturing, quality criteria, and sensory standards.
Credits: 3
Prerequisites: HMD 101. Must be 21 years of age.
Notes: Lab fee required.

**FAB 364 - New World Wines**
New World wines manufacturing, quality criteria, and sensory standards. Focus on wines from the U.S., Canada, Central America, South America, Mexico, Australia, and New Zealand.
Credits: 3
Prerequisites: HMD 101. Must be 21 years of age.
Notes: Lab fee required.

**FAB 365 - Old World Wines**
Old World wines manufacturing, quality criteria, and sensory standards. Focus on wines from Europe and the Mediterranean.
Credits: 3
Prerequisites: HMD 101. Must be 21 years of age.
Notes: Lab fee required.

**FAB 366 - Special Topics in Food Service Management**
Series of special courses designed by faculty from academe and industry. Uses lecture, demonstration, and lab exercises to present topics in a) Various cuisines and culinary styles, b) Back-of-the-house operations and management, c) Front-of-the-house operations and management, d) Field experience, e) Property management or engineering, g) Specialized food production.
Credits: 3
Prerequisites: FAB 159

**FAB 367 - Beers**
Basic principles of beer production. Primary focus on manufacturing, quality criteria, beer styles, and sensory standards. Evaluation by tasting is an integral part of the course.
Credits: 3
Prerequisites: HMD 101. Must be 21 years of age.
Notes: Lab fee required.

**FAB 370 - Nutrition in Food Service**
Enables food service professionals to plan menus for specific nutrition-related conditions and to answer questions regarding current nutrition issues. Covers consumption trends, nutrient needs of general and specific populations, relationships between nutrition, health and diseases, and menu/recipe modifications.
Credits: 3
Prerequisites: FAB 101 and FAB 159.

**FAB 372 - UNLVino Management**
This practical experience-based course is designed to facilitate the development of management and leadership skills associated with planning and implementing a major special event. Students will be assigned to a management team; marketing, events, or culinary and will participate fully in the research, marketing, execution, and evaluation of UNLVino.
Credits: 3
Prerequisites: FAB 101 and FAB 159 and HMD 253 and HMD 259. Must be 21 or older.
May be repeated to a maximum of six credits.

**FAB 373 - Chef Artist Event Management**
This event management class provides students with a practical opportunity to use the skills they have learned in the classroom in a professional setting. The Chef Artist Event Management class will allow students to plan, organize, market, staff, and manage a reception and dinner event featuring a celebrity chef.
Notes: Lab fee required.
May be repeated for a maximum of six credits.
Credits: 3
Prerequisites: FAB 101 and FAB 159 and HMD 253 and HMD 259.
May be repeated to a maximum of six credits.

**FAB 390 - Bar Management and Operations**
This course is designed to develop the skills and knowledge necessary to manage and supervise a beverage operation, including bartending and mixology. The student will also receive practical experience performing as a bartender for hospitality operations.
Credits: 3
Prerequisites: HMD 253

**FAB 461 - Food and Beverage Cost Control**
Duties and responsibilities of the manager for budgeting and forecasting, cost, and developing and maintaining controls in restaurant, catering and all types of food and beverage operations.
Credits: 3
Prerequisites: FAB 101, FAB 159, TCA 221, ENG 102 or ENG 114, HON 124 or MATH 124 or higher. Admission to a College of Hotel.

**FAB 465 - Beverage Management**
Basic principles of beverage management and bar operations. Primary focus on beverage products, purchasing, inventory management, bar set-up, bar layout and design, production, service, and cash handling.
Credits: 3
Prerequisites: FAB 101, FAB 159, and HMD 253.
Notes: Lab fee required.

**FAB 467 - Restaurant Management and Operations**
Application of established standards, techniques, and practices of restaurant management and operations. Students participate in the management, sales, production, and service of meals in varied environments including fine dining, casual table service, and catering.
Credits: 3
Prerequisites: FAB 101, FAB 159, FAB 461, HMD 253, HMD 259, TCA 380, majors only.

**FAB 470 - Global Food and Nutrition Issues**
All citizens of the world have a vested interest in how food is produced, distributed, processed, prepared and regulated. Provides students with a look at the governmental, industrial, environmental, and individual consumer factors that influence the types and quality of foods available in the world marketplace.
Credits: 3
Prerequisites: ENG 102 and ENG 231 or ENG 232, junior standing.
Notes: Satisfies International Requirement.

**FAB 474 - Independent Study in Food Service Management**
Research in an area of concern to the management of food service operations.
Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

**HMD 253 - Hospitality Services Management**
Exploration of how services are different from goods, service procedures for various functional areas of hospitality, and how key factors that contribute to service quality and guest satisfaction in services.
Credits: 3
Prerequisites: HMD 101 and ENG 102 or ENG 114 or HON 100 and FAB 159.

**TCA 110 - Introduction to the Convention Industry**
Overview of the convention industry, including meetings, trade shows, conferences and incentive travel.
Credits: 3
Notes: Roles of the suppliers to the industry also covered.
TCA 141 - Travel and Tourism I
Survey of travel and tourism; focus on concepts, terminology, demographics, financial significance, and trends.
Credits: 3

TCA 241 - Travel and Tourism II
Evaluates the economic, social, and political impact of tourism and travel, including markets, transportation, media, destination development, and the interrelationship of cooperating agencies.
Credits: 3
Prerequisites: TCA 141.

TCA 251 - Hospitality Externship
Internship experience with no classroom component. Lab fee required. Internships in the following areas: meetings, conventions, expositions, destination management/marketing, hospitality/casino marketing or accounting/finance, club, hotel catering, entertainment, theme parks or tourism.
Credits: 3
Prerequisites: TCA 201, minimum UNLV GPA of 2.50 or recommendation of faculty, Hospitality, Recreation/Leisure Studies, or Culinary Arts degrees only.
Notes: S/F grading only.

TCA 376 - Special Topics in Tourism and Convention Administration
Series of special courses designed by faculty from academe and industry. Separate units treat topics in a) Accounting, finance, computer, b) Marketing, c) Convention, meetings, d) Clubs, e) Entertainment, f) Travel and tourism, g) Sports, h) Professional development.
Credits: (1-9)
Prerequisites: Junior standing.
May be repeated to a maximum of six credits; nine on petition.

TCA 378 - Club Food and Beverage Management
Unique aspects of providing food and beverage services to the membership of private clubs.

TCA 422 - Operational Analysis for the Hospitality Industry
Major management models applicable to the tourism, lodging, restaurant, and gaming industries enhances ability to problem solve and make decisions in hospitality operations.
Credits: 3
Prerequisites: TCA 321 and TCA 420 or FIN 301

TCA 464 - Sport and Concert Arena Management
Operations of arenas, stadiums, performing arts centers, or amphitheaters. Incorporates logistical considerations of booking events, contract negotiations, ticket sales, maintenance and production.
Credits: 3
TCA 470 - Hospitality Realty
Considers real estate investment opportunities in the hotel, motel, and restaurant industries. Emphasis on location analysis, property appraisal, and financing alternatives.
Credits: 3

TCA 496 - Entertainment on the Road
Performance tour management logistics, including booking, scheduling, shipping, movement of equipment and artist management challenges.
Credits: 3
TCA 373 or HMD 401.

TCA 345 - The National Parks
Exploration of America's national parks. Includes historical perspective of the park movement and the National Park Service, management issues in the parks, tourism linkages, and the uniqueness of the areas. Special emphasis on the large scenic parks of the American West.
Credits: 3
Prerequisites: HMD 101 and ENG 102.

TCA 379 - Catering Operations and Sales
Study of hotel catering including operation, sales, and relationships with other departments and outside vendors. Emphasis on logistical operations and seeking and servicing various market segments.
Credits: 3
Prerequisites: HMD 101

TCA 383 - Meeting Planning
Role of the association and corporate meeting planner, including setting objectives and format, site selection, negotiations, program design, speaker selection, budgeting, contracts, marketing, registration, on-site logistics, and evaluation.
Credits: 3
Prerequisites: HMD 101

TCA 449 - International Tourism
Study of international travel and tourism. Focuses on the economic, social, political, and environmental considerations of international tourism management and development.
Credits: 3
Prerequisites: Upper-division standing.
Notes: Satisfies International Requirement.

TCA 476 - Trade Show Operations
Management problems of trade shows, including design, construction, customs, and regulations.
Credits: 3
Prerequisites: TCA 383

TCA 488 - Special Events Management
Management and operational activities of special events. Analyzes essential services that provide the necessary infrastructure for the event. Examines creative as well as practical aspects of coordinating the meeting/event environment through theme design, decor, and numerous other staging considerations.
Credits: 3
Prerequisites: TCA 383, Admission to a College of Hotel.

TCA 489 - Meetings and Events Coordination
Provides scope of competencies required to be a professional meeting/event coordinator. Analyzes essential services that provide the necessary infrastructure for the event. Examines creative as well as practical aspects of coordinating the meeting/event environment through theme design, decor, and numerous other staging considerations.
Credits: 3
Prerequisites: TCA 383 and TCA 488.

TCA 490 - Festival and Event Management
Application of established standards, techniques, and practices of festival and event management. Research, design, planning, coordination and evaluation stages of festival and event management.
Credits: 3
Prerequisites: Senior in good standing (minimum GPA of 2.0), TCA 110, TCA 321, TCA 380, and TCA 488, Admission to a College of Hotel.
**Hospitality Management Major (BS)**

**Hospitality Management Major - Bachelor of Science (BS)**


Please see advising information at the UNLV College of Hospitality Advising Center at https://www.unlv.edu/hospitality/advising-centers.

**Accreditation**

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Learning Outcomes**

Upon completion of the B.S. program in Hospitality Management, students should be able to:

1. Identify career goals and effective strategies for achieving them
   - Develop effective interview techniques
   - Articulate your personal elevator speech about your career
2. Communicate effectively in written, spoken, visual and digital modes
   - To different audiences, e.g. industry leaders, employers, faculty and fellow students
   - Human resources
3. Manage all forms of capital (e.g., human, financial) in an ethical and sustainable way
4. Evaluate changing legal issues based on existing legal principles
5. Resolve problems (simple to complex) considering ethical and legal ramifications and risk.
6. Determine the impact of business transactions on financial statements
7. Use historical financial information to prepare operating budgets
8. Develop effective marketing strategies to meet changing customer needs and expectations
9. Design sustainable marketing mix activities to maximize marketing goals
10. Value continuous leadership development
11. Develop a passion for HR.

**University Graduation Requirements**

- Please see Graduation Policies for complete information

**Hospitality Management Degree Requirements - Total: 120 Credits**

The Hospitality Management Major offers a broad educational approach to a career in the hospitality industry. Its varied course of study prepares students with both the management theories and operational competencies necessary to enter any segment of the industry upon graduation. In addition to the university’s general education requirements, students take classes specific to the industry including an introduction to hospitality, human resources management, organizational behavior, facilities management, hospitality law and a course in leadership, management and ethics. Students also study food sanitation, food service operations, cost control, career development, financial and managerial accounting, financial management, hospitality service management, and operations and strategic management.

The inclusion of 22 credits of elective courses allows the student to customize their educational experience based on their personal interests.
through the selection of the elective topics of their choice. Although it is not required, students may elect to declare a concentration to provide an opportunity to focus their elective credits toward a specific area of study.

Rounding out this curriculum is an internship, two senior-level capstone classes that will have students using all of their learned managerial and leadership skills, and actual work experience in the hospitality industry. This approach offers prospective employers a well-rounded graduate who understands day-to-day operations, has the ability to do strategic planning, and can adapt to a multitude of positions. With this expansive knowledge base, students will be ready to look at numerous career opportunities upon graduation.

Pre-major core must be completed prior to enrolling in upper division degree requirements. See Pre-Major Designation section in the catalog or contact the College of Hospitality Advising Center.

General Education Requirements - Subtotal: 37-38 Credits

First Year Seminar - Credits: 2-3

English Composition - Credits: 6
  - ENG 101 - Composition I
  - ENG 102 - Composition II

Second Year Seminar - Credits: 3
  - Any approved Second Year Seminar (ENG 231 or ENG 232 fulfills this requirement)

Constitutions - Credits: 4
  - HIST 100 - Historical Issues and Contemporary Society
  - PSC 101 - Introduction to American Politics

Mathematics - Credits: 3
  - MATH 124 - College Algebra

Distribution Requirement: Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Credits 9
  - COM 101 - Oral Communication
  - One course from different Humanities area - 3 credits
  - One course in Fine Arts - 3 credits

- Social Science:
  - Automatically satisfied by Major requirements

- Life and Physical Sciences and Analytical Thinking - Credits: 10
  - ENV 101 - Introduction to Environmental Science
  - PHIL 102 - Critical Thinking and Reasoning
  - One course from Life and Physical Sciences category with a lab

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Degree Requirements - BS in Hospitality Management - Subtotal: 61 Credits

Business Core Requirements Credits: 3
  - ECON 261 - Principles of Statistics I

Hotel College Core Requirements - Credits: 18
  - HMD 101 - Introduction to the Hospitality Industry
- TCA 221 - Hospitality Accounting I
- HMD 307 - Hospitality Leadership, Management, & Ethics
- HMD 259 - Human Resources Management in the Hospitality Industry
- TCA 380 - Hospitality Marketing I
- HMD 401 - Hospitality Law

Functional Area Requirements - Credits: 31
- FAB 101 - Food Service Sanitation I
- FAB 159 - Food Service Operations Fundamentals
- TCA 201 - Hospitality Career Development

Resort Electives (Choose 1)
- HMD 202 - Housekeeping Operations or
- HMD 203 - Front-Office Operations or
- HMD 226 - Industry Computer Applications for Hospitality & Tourism or
- GAM 225 - Introduction to Gaming Management

- HMD 253 - Hospitality Services Management
- TCA 321 - Hospitality Accounting II
- HMD 395 - Facilities Management
- HMD 402 - Employment Law in the Hospitality Industry
- HMD 407 - Organizational Behavior Applied to the Service Industries
- FAB 461 - Food and Beverage Cost Control
- TCA 420 - Hospitality Financial Management

Capstone Requirements - Credits: 6
- HMD 454 - Strategic Management in Hospitality
- FAB 467 - Restaurant Management and Operations

Internship Requirement - Credits: 3
- HMD 251 - Hospitality Externship or
- HMD 450 - Hospitality Internship or
- GAM 490 - Internship in Gaming Operations

Hospitality Management Electives - Credits: 15
of which 9 must be upper division (300/400 level)

Electives - Credits: 6-7

Total Credits: 120

Notes

1. All students must complete 1,000 hours of work experience in the hospitality industry. It is highly recommended that a portion of these hours be dedicated to the student’s concentration (if applicable), to facilitate entry into that segment of the industry after graduation.

Areas of Concentration

Students who wish to specialize in a particular segment of the hospitality industry can declare a concentration to focus their studies in that field. Concentration courses replace the Hotel College electives in the Hospitality Management Major and must be completed with a grade of C or better. An internship and work experience specific to the area of concentration, is strongly advised to enhance the student’s career opportunities. Four concentrations are available for interested students.

Hospitality Management

HMD 226 - Industry Computer Applications for Hospitality & Tourism
Survey of computer applications, issues, and trends in the hospital industry. Emphasis placed on the role of technology in operations and management of technology as a strategy.
Credits: 3

HMD 251 - Hospitality Externship
Internship experience with no classroom component.
Credits: 3
Corequisites: Minimum UNLV GPA of 2.50 or recommendation of the faculty, hotel, culinary arts, and recreation/leisure studies majors only.

Prerequisites: TCA 201.

Notes: Lab fee required. S/F grading only.

HMD 259 - Human Resources Management in the Hospitality Industry
Recruitment, selection, compensation, training, and performance appraisal of employees and managers in the hospitality industry’s culturally diverse work place.
Credits: 3
Prerequisites: HMD 101 or GAM 225 or ENG 101.

HMD 302 - Franchising
Examination of the multifaceted phenomenon of franchising in the hospitality industry, with particular attention to site study, financing, marketing, and operations.
Credits: 3

HMD 307 - Hospitality Leadership, Management, & Ethics
This course will develop student skills necessary to lead and manage hospitality organizations in an ethically, environmentally, economically, and socially sustainable way. It will include analysis of organizational work environments, critical situations, problem solving and decision implementation.
Credits: 3
Prerequisites: HMD 101, ENG 102, HON 124 or MATH 124 or higher, Admission to a College of Hotel.

HMD 315 - Ethics for the Hospitality Industry
Develops awareness and understanding of ethical considerations in decision making peculiar to the hospitality industry. Focuses on nuances of this labor-intensive service industry using organizational values as foundation for ethical behavior. Explores the potential for a legal-ethical dichotomy.
Credits: 3

HMD 320 - Working with Diversity
Offers improved understanding and ability to effectively manage a diverse hospitality/service industry workforce. Dimensions of diversity presented and discussed from historical, psychological, and sociological perspectives to provide a depth of understanding and appreciation of difference and its impact on society and work.
Credits: 3
Prerequisites: ENG 101, ENG 102.
Notes: Satisfies the Multicultural Requirements.

HMD 366 - Executive Speakers Series
This lecture series explores the potential for employment within a particular industry segment and discusses these opportunities with the hospitality executives.
Credits: 1
Prerequisites: HMD 101.
Notes: S/F grading only.
May be repeated to a maximum of three credits

HMD 376 - Special Topics in Hotel Administration
Series of special courses designed by faculty from academe and industry. Separate units treat topics in a) Computer operations, b) Casino, c) Human resources, d) Facility management, e) Hotel operations and management, and f) Field experience.
Credits: 1-3
Prerequisites: Junior standing.
May be repeated to a maximum of six credits; nine on petition.

HMD 376E - Hotel Operations and Management
Hotel Operations and Management.
Credits: 1-3
Prerequisites: Junior or Senior Standing
Notes: Satisfies the Multicultural Requirement
6 credits
HMD 401 - Hospitality Law
Provides a basic understanding of the primary laws and regulations that apply to the hospitality industry, how to effectively manage the legal issues/liabilities faced by all hospitality managers, and how to avoid and prevent legal liabilities through critical thinking and application.
Credits: 3
Prerequisites: HMD 101 or GAM 225, ENG 102 or ENG 114, HON 124 or MATH 124 or higher, Admission to a College of Hotel.

HMD 402 - Employment Law in the Hospitality Industry
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.
Credits: 3
Prerequisites: HMD 101 or GAM 225, ENG 102 or ENG 114, HON 124 or MATH 124 or higher, HMD 259, Admission to a College of Hotel.

HMD 407 - Organizational Behavior Applied to the Service Industries
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.
Credits: 3
Prerequisites: HMD 101 or GAM 225, ENG 102 or ENG 114, HON 124 or MATH 124 or higher, Admission to a College of Hotel.

HMD 408 - Labor-Management Relations
Analysis of labor-management relations (legal, social, and economic) relationships among employers, labor unions, and employees in the hospitality industry. Development of skills necessary to effectively manage employees who are represented by unions. Areas addressed include: union organization and election processes, labor contract negotiations and administration, labor strikes, dispute resolution, and strategic labor management decision-making.
Credits: 3
Prerequisites: HMD 259, junior standing.

HMD 409 - Hospitality Security and Risk Management
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.
Credits: 3
Prerequisites: HMD 395

HMD 441 - Hospitality Revenue Management
Revenue management is a method for profitably managing capacity. This course will provide you with the basic tools to apply the principles of revenue management to hospitality operations. The course focuses on the integration of revenue management techniques with information technology, internal management issues and external marketing concerns.
Credits: 3
Prerequisites: TCA 321 and TCA 380

HMD 450 - Hospitality Internship
Internships that either rotate through various hotel departments or focus on specific areas such as human resources, facility management, and gaming. Seminars and reports required. Lab fee
required.
Credits: 3
Prerequisites: Admission to a College of Hotel Administration Major, Minimum GPA of 2.0 and TCA 201.

HMD 454 - Strategic Management in Hospitality
Course transforms students into strategic business leaders. Students assume the role of hospitality managers responsible for their company's current and future success. Students acquire in-depth knowledge of strategic management concepts and techniques and develop strategies that enable companies to build and maintain a competitive advantage in a rapidly changing business environment.
Credits: 3
Prerequisites: HMD 407, TCA 321, TCA 380 and FIN 301 or TCA 420, senior standing, 2.0 GPA, Admission to a College of Hotel.

HMD 456 - Employee Development
Stresses the techniques in planning, developing, and conducting training programs in food service and lodging firms.
Credits: 3
Prerequisites: HMD 259, senior standing.

HMD 474 - Independent Study in Hotel Management
Research in an area of concern to the management of hotels and related industries.
Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

TCA 103 - Hospitality Academic and Personal Development
Provides students with skills, information, and experiences to improve their academic performance, assist in adapting to life's vicissitudes, and help in the development of realistic academic planning through interaction with faculty, staff, and fellow students. Major areas of focus include critical thinking, communication, global/multicultural awareness, and civil engagement and ethics, and life-long learning.
Credits: 2
Prerequisites: Freshman only.
Notes: Fulfills the First Year Seminar requirement. Open only to freshman and returning students.

TCA 201 - Hospitality Career Development
Prepares students for fulfilling balanced careers as hospitality professionals. Takes a strategic orientation to career planning (3 to 5 years) by facilitating students developing personal mission statement and relevant strategies for designing and living a satisfying whole life.
Credits: 3
Prerequisites: ENG 102 or ENG 114 and Admissions to a College of Hotel Major.

TCA 380 - Hospitality Marketing I
Organization of hospitality marketing functions: Primary focus on marketing programs and their role in the management of successful hospitality organizations.
Credits: 3
Prerequisites: HMD 101, ENG 102 or ENG 114, HON 124 or MATH 124 or higher, Admission to a College of Hotel.
*Resort Gaming and Golf Management*

**GAM 225 - Introduction to Gaming Management**
Overview of the casino; topics include the economics of the casino, its interface with the hotel, organizations, and terminology.
Credits: 3
Prerequisites: None.

**GAM 334 - Gaming Management I**
Review of gaming industry history as it applies to modern management philosophy and regulation. Examination of hotel casino cash flow sources, mechanics of production, slot operations analysis, game analysis, casino marketing analysis, problem gambling, and a general overview of casino management. Basic statistical applications related to casino management.
Credits: 3
Prerequisites: GAM 225 or HMD 101.

**GAM 339 - Protection of Casino Table Games**
In-depth examination of the various methods used to protect casino table games. Reviews blackjack, baccarat, poker, craps, and roulette, examining possible ways that cheating can occur. Methods of detection and various internal controls used by the casino discussed.
Credits: 3
Prerequisites: GAM 334.

**GAM 340 - Gaming Device Management**
Study of casino slot management and route operation management procedures, with emphasis on equipment technology and maintenance (ticket/in-ticket/out, server based gaming, tracking systems, Title 31, hand-held gaming devices, and electronic games), controls, layout, and customer service. Includes history of equipment development, future outlook, and career opportunities.
Credits: 3
Prerequisites: GAM 225 or HMD 101.

**GAM 342 - Problem Gambling**
Learn about the widespread popularity of gambling behavior and the dynamics of the legal, moral, and medical aspects of "deviant" acts. Interprets problem gambling from a variety of disciplinary perspectives. Future challenges faced by problem gamblers and the gaming industry.
Credits: 3
Prerequisites: GAM 225.

**GAM 426 - Accounting for the Gaming Industry**
Detailed examination of accounting systems, procedure, and controls peculiar to casinos required by both management and government for internal auditing, financial reporting, and governmental control.
Credits: 3
Prerequisites: TCA 221.

**GAM 434 - Gaming Management II**
Second course in casino management and operations.
Credits: 3
Prerequisites: GAM 334.

**GAM 437 - Casino Industry Regulation**
Nevada's system of gaming regulation and control provides a model for studying the history, purpose, politics, methods, and limitations — both practical and legal — of governmental regulation and control of what is now an international gaming industry. Security, surveillance, government policy, and technical and casino operational guidelines will be addressed.
Credits: 3
Prerequisites: GAM 334 or HMD 401.

**GAM 439 - Seminar in Casino Management**
Special topics in casino problems. Course open to experienced casino personnel.
Credits: 3
Prerequisites: GAM 334.

**GAM 440 - Casino Marketing**
Common/popular casino marketing tactics are examined, followed by an overview of slot club
structures and related database marketing activities. Match-play coupons, dead chip (a.k.a. rolling programs), and loss discounting are all closely examined. Casino hosting, the role of nongaming amenities, and repeater-market gaming promotions are also covered.
Credits: 3
Prerequisites: GAM 225 or GAM 334.

GAM 442 - Sociology of Gambling
Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems.
Credits: 3
Prerequisites: SOC 101 or HMD 101 or PSY 101 or GAM 225.
Notes: Satisfies the Multicultural and Social Science Requirement. Same as SOC 442
Same as SOC 442

GAM 470 - Quantitative Methods and Applications in Casino Gaming
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.
Credits: 3
Prerequisites: ECON 261 or STAT 152.

GAM 474 - Independent Study in Gaming Management
Research in an area of concern to the management of gaming operations.
Credits: 3
Prerequisites: GAM 334, senior standing, good academic standing, and graduation application on file.
May be repeated to a maximum of six credits.

GAM 480 - Gaming Innovations
Students from multiple academic disciplines develop practical and commercial applications for the gaming industry. The applications go through all the different phases that it takes to bring a gaming idea to fruition. Topics include: intellectual property, sales, gaming mathematics, licensing, pitching, and programming.
Credits: 3
Prerequisites: MATH 120 or 124 and Minimum of 6 credit hours 400 level coursework. Students are required to review and sign a UNLV Non-Disclosure Agreement.

GAM 485 - eSports Gambling Innovation Lab
Explore the growth of platform based business models, role of media in the evolution of eSports and regulatory and gambling issues in eSports. Students will experiment with integrating different technologies into the development of a viable and sustainable platform based eSports business model.
Credits: 3
Prerequisites: MATH 120 or MATH 124 and Minimum of 6 credit hours 400 level coursework. Students are required to review and sign a UNLV Non-Disclosure Agreement.

GAM 489 - Internship in Gaming Operations
A field-based experience for students to focus on a possible career path. Designed to expand knowledge of the gaming industry by rotating through various casino departments; focus on specific areas in casino operations such as marketing, table games, cage, slots, audit; regulatory/legal entities, gaming device manufacturing companies, etc.
Credits: 3
Prerequisites: GAM 334, senior standing, good academic standing, and graduation application on file.

GAM 495 - Special Topics in Gaming Operations
Series of special courses designed by faculty from academe and industry. Topics cover a wide spectrum of current gaming issues.
Credits: 3
Prerequisites: GAM 334, sophomore, junior or senior standing.
May be repeated up to a maximum of six credits; nine on petition.
HMD 101 - Introduction to the Hospitality Industry
Survey of the history, likely direction, and dynamics of the hospitality industry from the perspective of the global economy, with emphasis on the wide variety of career opportunities.
Credits: 3
Prerequisites: Minimum of 6 credit hours 400 level coursework. Students are required to review and sign a UNLV Non-Disclosure Agreement.

HMD 202 - Housekeeping Operations
Application of various systems, procedures, and controls associated with a modern hotel or hospital housekeeping department. Emphasis on management delegation, scheduling systems, routines, and equipment requirements. Laundry operations and hotel recreation departments also reviewed.
Credits: 3
Prerequisites: HMD 101.

HMD 203 - Front-Office Operations
Study of front-office procedures from reservations through check-out including the night audit and the property management system and their impacts on other lodging operations. Special emphasis placed on guest-employee relations.
Credits: 3
Prerequisites: HMD 101 or GAM 225.

HMD 395 - Facilities Management
Explores the engineering and maintenance requirements peculiar to the hospitality industry. Special emphasis on environmental issues, modernization, building operating systems, and resource management.
Credits: 3
Prerequisites: HMD 101 or GAM 225, ENG 102 or ENG 114, HON 124 or MATH 124 or higher, Admission to a College of Hotel.

HMD 445 - Hospitality Innovation Lab
The Hospitality Innovation Lab focuses on development of intellectual property primarily on the global hospitality industry. Concentrating on disruptive innovation in the hospitality industry with specific applications in the integrated resort model. Students will research hospitality, technology and design issues through exploration of opportunities and problems within the industry.
Credits: 3
Prerequisites: Minimum of 6 credit hours 400 level coursework. Students are required to review and sign a UNLV Non-Disclosure Agreement.

HMD 455 - Hotel Administration Seminar
Study and discussion of current problems in the hospitality industry using case studies, individual research, and guests.
Credits: 3

PGM 101 - Golf for Business and Life
Geared toward novice golfers with little or no golf experience. Focuses on fundamentals of the game with special attention to the benefits of its use in the corporate environment.
Credits: 1

PGM 102 - Introduction to Player Development
Students work intensely on the development of skills necessary to successfully complete the PGA playing ability test. Students learn the cause and effect relationships between swing mechanics and ball flight laws.
Credits: 0
Prerequisites: Admission into the PGA Golf Management concentration.
Notes: S/F grading only.

PGM 110 - Introduction to PGA Golf Management
Provides PGA students with knowledge, theory, and application of concepts in golf management specific to: the introduction to PGA Professional Golf Management, PGA history and constitution, and Part 1 of the rules of golf and career enhancement. Students will complete the PGA qualifying exam.
Credits: 3

PGM 111 - Teaching & Coaching Level 1
Provides PGA students with knowledge, theory, and application of introductory teaching and coaching concepts.
Credits: 3
Prerequisites: Minimum C grade in PGM 110.
PGM 162 - PGM Internship I
Internship is a full-time, 40 hours per week, academic experience at an approved golf facility. Internship will provide professional experiences in business planning, customer relations, tournament operations, golf car fleet management, and teaching and golf club performance.
Credits: 1-6
Prerequisites: PGM 110.
May be repeated up to a maximum of 6 credits.

PGM 201 - Golf Facility Management Level 1
Provides PGA students with knowledge, theory, and application of concepts in golf operations specific to: Part 1 of business planning, customer relations, merchandise and inventory management, tournament operations, golf car fleet management, and turf grass; Part 2 of rules of golf and career enhancement. Students will complete level 1 testing specific to these concepts and those in Teaching and Coaching 1.
Credits: 3
Prerequisites: Minimum C grade in PGM 111.

PGM 202 - Teaching & Coaching Level 2
Provides PGA students with knowledge, theory, and application of intermediate teaching and coaching concepts.
Credits: 3
Prerequisites: Minimum C grade in PGM 201

PGM 262 - PGM Internship II
Internship is a full-time, 40 hours per week, academic experience at an approved golf facility. Internship will provide professional experiences in golf operations, merchandise and inventory management, turf grass management, and intermediate teaching and golf club alteration.
Credits: 1-6
Prerequisites: PGM 162.

PGM 301 - Golf Facility Management Level 2
Provides PGA students with knowledge, theory and application of concepts in golf operations specific to: Part 1 golf operations; Part 2 business planning, customer relations, merchandise and inventory management, and tournament operations. Students will complete level 2 testing specific to these concepts and those of Teaching & Coaching 2.
Credits: 3
Prerequisites: Minimum C grade in PGM 202.

PGM 302 - Teaching & Coaching Level 3
Provides PGA students with knowledge, theory, and application of advanced teaching and coaching concepts and Part 3 career enhancement.
Credits: 3
Prerequisites: Minimum C grade in PGM 301.

PGM 311 - PGA/PGMTM level 2
Provides PGM students with knowledge, theory and application of the fundamental concepts in golf operations specific to: analysis of the swing, business planning and operations, customer relations, turf grass management. Students will complete a work experience portfolio as a requirement of PGA/PGMTM level 2 testing.
Credits: 2
Prerequisites: RLS 110, 201.

PGM 362 - PGM Internship III
Internship is a full-time, 40 hours per week, academic experience at an approved golf facility. Internship will provide professional experiences in human resource management and supervising and delegating, career enhancement, food and beverage control, player development programs and teaching business, and advanced teaching and golf club fitting.
Credits: 1-6
Prerequisites: PGM 262.

PGM 401 - Golf Facility Management Level 3
Provides PGA students with knowledge, theory, and application of concepts in golf operations specific to: supervising and delegating and food and beverage control; Part 2 golf car fleet management, golf operations, and turf grass; Part 3 business planning, career enhancement and merchandise and inventory management and those of Teaching & Coaching 3.
Credits: 3  
Prerequisites: Minimum C grade in PGM 302.

**PGM 411 - PGA/PGMTM level 3**  
Provides PGM students with knowledge, theory and application of the fundamental concepts in golf operations specific to: swing concepts of teaching, supervising and delegating, merchandise and inventory management, and food and beverage control. Students will complete a work experience portfolio as a requirement of PGA/PGMTM level 3 testing.  
Credits: 2  
Prerequisites: RLS 110, 201, 301.

**PGM 462 - PGM Internship IV**  
Internship is a full-time, 40 hours per week, academic experience at an approved golf facility. Internship will provide a culmination of professional experiences covering all learning outcomes of the PGA PGM level 1, 2, and 3 curriculum.  
Credits: 1-6  
Prerequisites: PGM 362.

**PGM 463 - A-E Professional Golf Management Internship I-V**  
Internship is a full-time, 40 hours per week, academic experience at an approved golf facility. Internship sites offer variety of professional experiences in the operation and management of the: facility, member relations, golf retailing, food and beverage, turf grass, and tournaments. Course repeatable up to 12 credits. Students must complete 12 credits of internship.  
Credits: 3  
Prerequisites: Admission to PGM Concentration.  
PGM 463 A, B and C: 2 credits each. PGM 463D and E:  
Notes: PGM 463D and PGM 463E are both 3 credit courses.

**TCA 221 - Hospitality Accounting I**  
Hospitality accounting principles and practices pursuant to the industry's uniform systems of accounts.  
Credits: 3  
Prerequisites: MATH 96 or higher.

**TCA 321 - Hospitality Accounting II**  
Analysis of departmental operating statements for use by department heads and general management.  
Credits: 3  
Prerequisites: TCA 221, Admission to a College of Hotel.

**TCA 420 - Hospitality Financial Management**  
Introduces students to the financial management function in the hospitality organization. Focuses on the process of value creation. Other topics include financial markets, valuation criteria and hospitality feasibility and appraisal. Taking ECON 261 before this course is highly recommended.  
Credits: 3  
Prerequisites: ENG 102 or ENG 114, TCA 321, and Admission to a College of Hotel Administration Major.

**Gaming Management Concentration**  
The gaming management concentration is targeted not only to those who will work in actual casino operations but also to students who are thinking about careers in casino accounting, as professional staff in gaming regulations and control, and as suppliers who will serve the casino industry.

**Gaming Management Concentration Core - Credits: 15**
- GAM 334 - Gaming Management I  
- GAM 340 - Gaming Device Management  
- GAM 437 - Casino Industry Regulation  
- GAM 440 - Casino Marketing  
- GAM 470 - Quantitative Methods and Applications in Casino Gaming
Meetings and Events Concentration
The meetings and events management concentration encompasses meetings, conventions, tradeshows, and special events. It is a specialized curriculum that includes everything from site selection and marketing to budgets and logistics. The meetings and events industry is an exciting, fast-paced field that allows and encourages creativity and innovation.

Meetings and Events Concentration Core - Credits: 15
- TCA 110 - Introduction to the Convention Industry
- TCA 383 - Meeting Planning
- TCA 488 - Special Events Management
- TCA 490 - Festival and Event Management
- Any TCA Elective

Restaurant Management Concentration
The restaurant management concentration is a course of study ideal for those students interested in all aspects of restaurant and foodservice management. The focus will be on food production, service, marketing, supervision, and financial management. With over 15 million jobs available in the restaurant industry, this concentration will prepare you for a career in the fastest growing area of hospitality.

Restaurant Management Concentration - Credits: 15
- FAB 160 - Hospitality Purchasing
- FAB 333 - Culture and Cuisine
- FAB 370 - Nutrition in Food Service
- FAB Upper Division (300/400) Elective
- FAB Upper Division (300/400) Elective

Professional Golf Management Concentration
The PGA golf management concentration provides students with the academic knowledge and experience necessary for a career in the golf industry. The PGA concentration consists of 23 credits within the hospitality management major. Sixteen months of internship at approved golf facilities and successful completion of the PGA's player's ability test and qualifying level, level 1, 2, and 3 examinations are required.

Completing the hospitality management major with the PGA golf management concentration qualifies students with U.S. citizenship membership into the PGA upon receiving a background check and eligible employment in the golf industry. Concentration fees include extensive golf course playing and practice privileges and access to the PGA knowledge center. Admission to this concentration requires admission to the university plus a golf handicap of 12 or less verified by the United States Golf Association, Professional Golfers' Association of America, PGA golf professional, high school golf coach, or successful completion of the PGA playing-ability test.

Professional Golf Management Concentration - Credits: 23
- PGM 102 - Introduction to Player Development
- PGA Playing Ability Test
- PGM 110 - Introduction to PGA Golf Management
- PGM 111 - Teaching & Coaching Level 1
- PGM 162 - PGM Internship I
- PGM 201 - Golf Facility Management Level 1
- PGM 202 - Teaching & Coaching Level 2
- PGM 262 - PGM Internship II
- PGM 301 - Golf Facility Management Level 2
- PGM 302 - Teaching & Coaching Level 3
- PGM 362 - PGM Internship III
- PGM 401 - Golf Facility Management Level 3
- PGM 462 - PGM Internship IV
College of Liberal Arts

Purpose and Focus
The College of Liberal Arts offers a rich variety of courses, majors, and interdisciplinary programs in the humanities and the social sciences. A liberal arts education develops an array of intellectual skills, the ability to use a variety of methodologies to understand our changing world, and, a broad base of diverse knowledge. Our courses and degree programs are designed to provide such a foundation and to create life-long learners who can adapt to the inevitably changing environments they will encounter.

The College includes outstanding faculty who thoughtfully balance their roles as creators of knowledge through original research and disseminators of knowledge as dedicated teachers. Many of our faculty members have earned national and international reputations as a result of their published work in fields ranging from Anthropology to Gender and Sexuality Studies. We encourage you to take advantage of the wealth of educational opportunities available in our College - including internships, field work experiences, lab experiences, and more- and the various clubs and organizations that our departments offer. We are also justly proud of our Wilson Advising Center. As you make decisions about your educational future, we encourage you to consult with Wilson Advising and to speak with any professor or chairperson in the College to plan your program of study.

Whether you are taking courses in the College to fulfill core requirements or are majoring in one of our degree programs, we welcome you.

Accreditation
Northwest Commission on Colleges and Universities

Departments, Majors, and Undergraduate Degrees

Department of Anthropology
Anthropology — Bachelor of Arts

Department of English
English — Bachelor of Arts
English Creative Writing Concentration
English Professional Writing Concentration

Department of History
History — Bachelor of Arts

Interdisciplinary, Gender, and Ethnic Studies
Afro-American Studies — Bachelor of Arts
Gender and Sexuality Studies - Bachelor of Arts
Asian Studies — Bachelor of Arts
Latin American Studies — Bachelor of Arts
Multidisciplinary Studies — Bachelor of Arts
Social Science Studies — Bachelor of Arts

Department of Philosophy
Philosophy — Bachelor of Arts
Philosophy Law and Justice Concentration

Department of Political Science
Political Science — Bachelor of Arts

Department of Psychology
Psychology — Bachelor of Arts

Department of Sociology
Sociology — Bachelor of Arts

Department of World Languages and Cultures
French — Bachelor of Arts
German — Bachelor of Arts
Romance Languages — Bachelor of Arts
Spanish — Bachelor of Arts
Spanish for the Professions — Bachelor of Arts

Graduate Degree Programs
Anthropology — Master of Arts; Doctor of Philosophy
English — Master of Arts, Doctor of Philosophy
English — Master of Fine Arts in English
History — Master of Arts, Doctor of Philosophy
Political Science — Master of Arts, Doctor of Philosophy
Psychology — Doctor of Philosophy (Clinical Program, Experimental Program)
Sociology — Master of Arts, Doctor of Philosophy
Spanish — Master of Arts in Hispanic Studies; Graduate Certificate in Spanish Translation

Minors
Afro-American Studies
American Indian and Indigenous Studies
Anthropology
Asian Studies
Chinese
Classical Studies
Creative Writing
English
French Studies
German Studies
Gerontology
History
Italian Studies
Japanese Studies
Latin American Studies
Latina/o Studies
Neuroscience
Philosophy
Philosophy, Law and Justice
Political Science
Professional Writing
Psychology
Religious Studies
Sociology
Spanish
Spanish for the Professions
Gender and Sexuality Studies

Interdisciplinary Academic Certificate Program
Great Works Academic Certificate Program

College Policies

Academic Policies
In addition to NSHE and UNLV requirements, all majors in the College of Liberal Arts must fulfill an additional three credits of fine arts (any course in ART, DAN, FIS, MUS, or THTR) and six credits of foreign language or foreign culture. Some departments in the College of Liberal Arts require their majors to take foreign language rather than foreign culture courses. Those students who opt to take a foreign language must take two courses in the same foreign language at the university level or the equivalent, to be determined by Placement Exam Test administered by the Department of World Languages and Cultures. Students who opt to take foreign culture should see the Wilson Advising Center or the college for a list of acceptable courses that meet this requirement. Certain courses on the college foreign culture list have been accepted by the General Education Committee as fulfilling the international and/or multicultural requirements. Students in the College of Liberal Arts may use these courses to simultaneously fulfill the college foreign culture requirement and the core international or multicultural requirement.

In addition to NSHE and UNLV requirements, all majors in the College of Liberal Arts must fulfill the requirements of the three distribution areas of the Core Curriculum. In other words, Humanities majors must fulfill the humanities distribution requirement outside the major, and Social Science majors must fulfill the social science distribution requirement outside the major. In addition to NSHE and UNLV requirements, all majors in the College of Liberal Arts must complete at least 42 credits at the upper-division level (300–400 level courses). Also, at least 50 percent of courses in a Liberal Arts student’s major must be taken at UNLV. Students may not fulfill general education requirements with courses in their major field.
Probation/Suspension
Students who maintain a UNLV cumulative grade point average of 2.00 or above are in good standing. Those falling below a 2.00 GPA will be subject to University Probation and/or University Suspension. See UNLV Academic Policies in this catalog for a description of the probation and suspension rules.

Liberal Arts/Business Administration Track
The College of Business offers a specially constructed business administration minor. This program prepares Liberal Arts students for a potential business career or for the 30-semester-hour Master's in Business Administration option at UNLV. Please consult the College of Business section of this catalog for details.

International Study
The College of Liberal Arts encourages international studies. Information is available concerning university affiliations abroad through the Office of International Programs and under "International Programs" in this catalog.

Scholarships
Please refer to College/Departmental Scholarships in the Student Financial Services section of this catalog.

Advisement
All students should contact the Wilson Advising Center for academic advising (http://liberalarts.unlv.edu/WAC/). Students should also make it a point to consult with their faculty advisors for career advising and for more specialized academic advising in their majors or minors.

Writing Center
The Writing Center, staffed by English Department graduate students, offers all UNLV students and staff members assistance with any writing project. Consultants are available to discuss any stage of the writing process, from generating ideas to developing and polishing later drafts. Consultants can help with projects such as reports, newsletters, essays in any discipline, graduate school applications, and much more. The Writing Center is not a proofreading service; consultants help the writers themselves identify and correct problems in their own writing.

The Writing Center also offers workshops throughout the fall and spring semesters on various topics pertaining to writing. Past topics have included "Back to the Basics," "Mastering the MLA," "Mastering the APA," "International English," "Writing with Style," and others. New topics are added regularly.

This service, offered through the College of Liberal Arts, is free of charge. For appointments, hours, and/or more information, please visit the Writing Center in the Central Desert Complex Building 3, or call 895-3908.
Department of Anthropology

Purpose and Focus
The degree in anthropology is a balance of practical, applied research and a broad-based academic curriculum, providing not only insights into the nature of humankind but also the background necessary to find career opportunities wherever the understanding of human beings and sensitivity to cultural differences are needed.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
Anthropology

Academic Policies
It is expected that students majoring in Anthropology will maintain continuous enrollment by registering in each term after matriculation (summer excluded) for at least three credits of work related to meeting College of Liberal Arts and/or Department of Anthropology requirements.

Advisement
All undergraduate academic advising is done through the Wilson Advising Center. The department also has an Undergraduate Coordinator who will help with class choices. Career advising is done by the Undergraduate Coordinator and the faculty in the Department of Anthropology.

Anthropology Major (BA)

Anthropology Major - Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, Anthropology web page at www.unlv.edu/anthro/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-anthropology

Learning Objectives
1. Learn the basic tenets of anthropology and evolution (Encyclopedic knowledge).
2. Study the different models of the social sciences to analyze individual and group behavior (Relativistic/pluralistic stance).
3. Acquire knowledge about and understanding of the basic components of social and cultural living (Individual/collective reasoning).
4. Students learn about the fundamental aspects of human biological, social, and cultural behavior, both past and present. Thanks to the commitment of our faculty, students are trained in a way that balances practical empirical, and theoretical approaches in anthropology.

University Graduation Requirements
- Please see Graduation Policies for complete information

Anthropology Degree Requirements - Total: 120 Credits

(see note 1 and 2)

General Education Requirements - Subtotal: 37-40 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6
Mathematics - Credits: 3

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 Credits**
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- **Social Science**
  - Automatically satisfied by Major requirements

- **Life and Physical Sciences and Analytical Thinking: 9-10 credits**
  - Two courses from life and physical sciences category; at least one with a lab
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BA in Anthropology- Subtotal: 36-37 Credits

1. **Required courses - Credits: 15**
   - ANTH 101 - Introduction to Cultural Anthropology
   - ANTH 102 - Introduction to Physical Anthropology
   - ANTH 105 - Introduction to World Archaeology
   - ANTH 193 - Essentials of Data Analysis for Anthropologists *

   - ANTH 436 - History of Anthropology
     *ANTH 193 may be substituted with an equivalent statistics course, pending departmental approval.

2. **A minimum of one lab or field course from the following (3 credits):**
   - ANTH 438 - Ethnographic Field Methods
   - ANTH 447 - Archaeological Field Methods
   - ANTH 448B - Archaeological Field Practicum
   - ANTH 449A - Ceramic Analysis in Archaeology
   - ANTH 449B - Lithic Artifact Analysis
   - ANTH 449D - Zooarchaeology Laboratory
   - ANTH 462 - Human Osteology
   - ANTH 464 - Dental Anthropology
   - NOTE: Only one course from this list is required; however, additional lab and field courses listed in this sub-section may be taken as electives (see section 4).

3. **A minimum of one theory course from the following (3 credits):**
   - ANTH 417 - Evolution & Culture: 'Darwinian' models of culture
   - ANTH 428 - Signifying Identities: Ethnicity, Nationality, Gender, and Class
   - ANTH 455 - Archaeological Theory
   - ANTH 467 - Health and Disease in Antiquity
   - ANTH 469 - Evolution and Biology of Human Behavior
   - ANTH 485 - Language and Culture
     *NOTE: Only one course from this list is required; however, additional theory courses listed in this sub-section may be taken as electives (see section 4).

4. **Selection of remaining credit hours from the above listed and/or from the following (15 credits):**
   - ANTH 103 - The Evolution of Everything
   - ANTH 110L - Physical Anthropology Laboratory
   - ANTH 216 - Cultures Through Film
   - ANTH 301 - Peoples and Cultures of Native North America
   - ANTH 305R - Arctic Anthropology
   - ANTH 306 - Contemporary Chinese Society
   - ANTH 311 - Cultural Resources Management
- ANTH 330 - Cultures of Exploitation, Slavery, and Terrorism
- ANTH 331 - A Global Crisis: Food, Human Health, and Climate
- ANTH 360 - Dogs, Cats and Other Beasts: Anthropology of Animals
- ANTH 365 - Bones, Bodies and Trauma: Forensic Studies in Anthropology
- ANTH 400C - Native Americans of the Southwest
- ANTH 403 - Anthropology of Women and Men
- ANTH 407 - Economic Anthropology
- ANTH 411 - Buddhism and Culture
- ANTH 420 - Magic, Witchcraft, and Religion
- ANTH 422 - Psychological Anthropology
- ANTH 424 - Medical Anthropology
- ANTH 427 - Cultures and Cognition
- ANTH 434 - Ethnohistory
- ANTH 440A - Archaeology of North America
- ANTH 440B - Archaeology of the Great Basin
- ANTH 440C - Archaeology of the Southwest
- ANTH 441B - Near Eastern and Mediterranean Prehistory
- ANTH 441C - Peoples and Cultures of Ancient Near East
- ANTH 443 - Environmental Archaeology
- ANTH 444 - Bioarchaeology
- ANTH 456 - Archaeology of Technology
- ANTH 457 - Archaeology of Complex Societies and Archaic States
- ANTH 458 - Origins of Inequality: A Cross-cultural Perspective
- ANTH 460 - Primate Evolution
- ANTH 466 - Nutritional Anthropology
- ANTH 471 - Evolution of Human Sexuality
- ANTH 472 - Hormones and Behavior
- ANTH 473 - Anthropology of Violence
- ANTH 475 - Evolutionary Medicine
- ANTH 490 - Study in Anthropology Abroad
- ANTH 491 - Internship in Anthropology
- ANTH 497A - Senior Thesis I
- ANTH 497B - Senior Thesis II
- ANTH 499 - Independent Research

Electives - Credits: 25-29

(see note 1 and 2)

Total Credits: 120

Notes

1. Selection of remaining credit hours for the major, college, and university requirements, and electives are left to the student. Students interested in graduate study should select these carefully and in consultation with their advisor.

2. A total of at least 42 credits in upper-division course work (300-400 level) is required of all majors.

Anthropology Minor

Please see https://www.unlv.edu/degree/minor-anthropology for program information and degree worksheets.

Courses Include - Total Credits: 21

- ANTH 101 - Introduction to Cultural Anthropology
- ANTH 102 - Introduction to Physical Anthropology
- ANTH 105 - Introduction to World Archaeology

and three additional three-credit or four-credit courses selected in consultation with an advisor.

A minimum of 12 credits must be at the upper-division (300-400) level.

Other Anthropology Requirements - Subtotal: 18 Credits

Social Science - Credits: 9
Fine Arts - Credits: 3
Foreign Language/Foreign Culture - Credits: 6
**Anthropology**

**ANTH 101 - Introduction to Cultural Anthropology**
Survey of the nature of culture with emphasis on variation in human behavior in contemporary societies.
Credits: 3
Notes: Satisfies Social Science Requirement.

**ANTH 102 - Introduction to Physical Anthropology**
Origin, evolution, and geographical distribution of humans, the growth of populations and how they change over time, genetics and heredity, human adaptation and human diversity. Emphasizes the origin and evolution of humans and their place in nature.
Credits: 3

**ANTH 103 - The Evolution of Everything**
This is broad examination of the physical, biological, and historical events that have shaped the Earth.
Credits: 3
Notes: Satisfies Social Science Requirement.

**ANTH 104 - Great Discoveries in Archaeology**
Examination of influential archaeological discoveries and the role of contemporary archaeological fieldwork and analysis. Illustrates archaeology’s contribution to modern views of the past.
Credits: 3
Notes: Satisfies Social Science Requirement.

**ANTH 105 - Introduction to World Archaeology**
Development of human society and technology from the earliest traces of culturally patterned behavior to the emergence of civilization in the Old and New Worlds.
Credits: 3
Notes: Satisfies Social Science Requirement.

**ANTH 106 - Introduction to Anthropological Linguistics**
An introduction to cross-cultural aspects of language across the globe. Topics include language as a system, its interaction with elements of the social world such as gender, age, and class/caste, and the ways in which its usage and worldviews reciprocally constitute one another.
Credits: 3
Notes: Satisfies Social Science Requirement.

**ANTH 110L - Physical Anthropology Laboratory**
Practical experience in aspects of physical anthropology: the mechanisms of inheritance, osteology and forensic science, comparative anatomy and human evolution, the processes of human growth and aging, and aspects of modern human variability.
Credits: 1
Prerequisites: ANTH 102.
Notes: Satisfies the General Core Requirement for a laboratory science course.

**ANTH 193 - Essentials of Data Analysis for Anthropologists**
Introduces students to the methods involved in collecting, managing, and analyzing anthropological data. Both exploratory and confirmatory statistical methods will be covered. Emphasis will be placed on how to manage large databases using computer programs, how to select appropriate analytical techniques, and how to organize and present data for professional audiences.
Credits: 3

**ANTH 216 - Cultures Through Film**
This course is an introduction to visual anthropology using ethnographic films to explore how culture is portrayed using visual media. Students will view films that have defined and altered the genre, learn the history of ethnographic film, and situate ethnographic films in the broader context of cross-cultural representations in Anthropology.
ANTH 301 - Peoples and Cultures of Native North America
Survey of culture areas of native North America and description of representative tribes and of the ways they lived when first visited by Euro-Americans.
Credits: 3
Prerequisites: ANTH 101.
Notes: Satisfies International and Social Science Requirements.
Same as AIIS 301

ANTH 305R - Arctic Anthropology
The Arctic is one of the most demanding environments where humans have lived in. This course explores lives of Indigenous people from the Russian Far East to Greenland and their social, economic, and technological adaptations. We will question the evidence for peopling, cultural transformation and persistence, social complexity and identity, and colonialism.
Credits: 3
Prerequisites: ANTH 101 or ANTH 105.
Notes: Satisfies International and Social Science Requirements.

ANTH 306 - Contemporary Chinese Society
Highlights the changing characteristics of Chinese urban-rural and state-society conflicts in the era of Mao Zedong's leadership and in the contemporary post-Mao reforms.
Credits: 3
Prerequisites: ENG 101 and ANTH 101.
Notes: Satisfies International and Social Science Requirements.
Same as AIS 306

ANTH 311 - Cultural Resources Management
Examines the growth of Cultural Resources Management in archaeology, the laws that led to its development, and its impact on the field of archaeology.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement.

ANTH 330 - Cultures of Exploitation, Slavery, and Terrorism
Anthropology is in an ideal position to examine contemporary practices and historical context of global human exploitation, slavery, and terrorism. We explore human control (nations, communities, individuals) through the lens of political economy, and examine how these practices, though detrimental to individuals, can be integral to institutional systems.
Credits: 3
Prerequisites: ANTH 101 or ANTH 105.
Notes: Satisfies International and Social Science Requirements.

ANTH 331 - A Global Crisis: Food, Human Health, and Climate
By 2050, the world population is expected to reach nine billion. Those billions will seek food, water, energy, land, and other limited resources. This course provides students a global overview of food production, human health, and climate change, and offers lessons from the past.
Credits: 3
Prerequisites: ANTH 101 or ANTH 105 or GEOL 110.
Notes: Satisfies Social Science Requirement.

ANTH 360 - Dogs, Cats and Other Beasts: Anthropology of Animals
This course explores the connections between humans and other animals. Animals have played important roles in human evolution, and serve as reflections of the societies in which they are kept. Topics include animal domestication, cross-cultural treatment of pets, and the growing emotional and health benefits people derive from their dog.
Credits: 3
Prerequisites: ANTH 102 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102.
Notes: Satisfies Social Science Requirement.
ANTH 361 - Making Mankind: Sex, Status, and Male Studies
This class undertakes an integrative account of what it means to be a man. We draw upon comparisons with other animals, the physiology of social behavior, and cross-cultural accounts of masculinity, all within an overarching evolutionary perspective. Topics include friendship, sexuality, politics, violence, education, work, sports, fatherhood, and health.
Credits: 3
Prerequisites: ANTH 102 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102 or similar.
Notes: Satisfies Social Science Requirement.

ANTH 362 - Anthropology of Sports
Explores the anthropology of sports; entailing situating sports in evolutionary, cross-cultural and historical context. Topics include sexual selection and behavioral competition, individual and team sports around the globe such as wrestling and football, the demographics and logic of sports fandom, and the role of sports in health and identity.
Credits: 3
Prerequisites: ANTH 101 or ANTH 102 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102 and Junior or Senior Standing.

ANTH 365 - Bones, Bodies and Trauma: Forensic Studies in Anthropology
This course reviews methods used by anthropologists, coroners, and medical examiners to study human skeletal remains. Age at death, sex, height, physique, occupation, nutrition, and health can be "read" from dry bones. Through use of case studies, these methods provide identity and patterns of trauma useful in a legal setting.
Credits: 3
Prerequisites: ANTH 102 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102 or similar.
Notes: Satisfies Social Science Requirement.

ANTH 400C - Native Americans of the Southwest
Explores the cultures of Native American groups living in the Southwestern United States. Examines tribal relationships with landscapes, other tribal groups, and non-Native peoples. Native American beliefs, social organization, and history are explored, as are some current conflicts and challenges faced by tribal members.
Credits: 3
Prerequisites: ANTH 101 or ENG 101 or SOC 101 or SOC 102 or HIST 101 or HIST 102 or HIST 110.
Notes: Satisfies Multicultural and Social Science Requirements.
Same as AIIS 400C

ANTH 403 - Anthropology of Women and Men
Examines non-western societal forces that shape the way men and women conceptualize the opposite sex. Looks at what constitutes gender as it is manifested in public and private displays of thought, reflection, and action. Explores numerous contemporary non-western cultures to highlight men and women's interaction around the globe.
Credits: 3
Prerequisites: ANTH 101 and ENG 101.
Same as WMST 403

ANTH 409 - Economic Anthropology
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.
Credits: 3
Prerequisites: ANTH 101.
Notes: Satisfies Foreign Culture and Social Science Requirements. This course is cross-listed with ANTH 609. Credit at the 600-level requires additional work.

ANTH 411 - Buddhism and Culture
Explores how different forms of Buddhism are practiced, with an emphasis on how Buddhism is practiced in the United States. Focuses on the ways in which religious practices are embedded in, and
shaped by, culture.
Credits: 3
Prerequisites: ENG 101 and ANTH 101.
Notes: Satisfies Multicultural and Social Science Requirements.

ANTH 417 - Evolution & Culture: 'Darwinian' models of culture
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
Credits: 3
Prerequisites: ANTH 101.
Notes: Satisfies Social Science Requirements. This course is cross-listed with ANTH 617. Credit at the 600-level requires additional work.

ANTH 420 - Magic, Witchcraft, and Religion
Examines the ways non-western people experience "religion" in official and unofficial domains. Provides a conceptual framework for analyzing the ways cultures outside the U.S. organize reality to gain an awareness of the interrelationship between cosmology, religion, and personhood and an appreciation of the cultural diversity found around the world.
Credits: 3
Prerequisites: ANTH 101.
Notes: Satisfies International and Social Science Requirements. This course is cross-listed with ANTH 620. Credit at the 600-level requires additional work.

ANTH 422 - Psychological Anthropology
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.
Credits: 3
Prerequisites: ANTH 101 and ENG 101.
Notes: Satisfies International and Social Science Requirements. This course is cross-listed with ANTH 622. Credit at the 600-level requires additional work.

ANTH 426 - Medical Anthropology
(Same as NURS 474.) Overview of medical anthropology, examines disease and human evolution, ecology of disease, and culture-centered approaches in the field, including ethno medicine, healers in global perspective, and medicine practiced in clinical and public health settings in societies around the world.
Credits: 3
Prerequisites: ANTH 101 or ANTH 102.
Notes: Satisfies International and Social Science Requirements. This course is cross-listed with ANTH 626. Credit at the 600-level requires additional work.

ANTH 427 - Cultures and Cognition
The course focuses on the interactions between culture, cognition and behavior. It 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.
Credits: 3
Prerequisites: ANTH 101 or ANTH 102 or ANTH 105.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 627. Credit at the 600-level requires additional work.

ANTH 428 - Signifying Identities: Ethnicity, Nationality, Gender, and Class
This course approaches identity formation as a cultural process, bringing together the many dimensions of ethnicity, nationality, gender, and class in the United States. The primary aim of the course is to examine how we are self-making and being made—how identities are constructed, felt,
ANTH 429 - Food and Identity
Food sustains us; culture influences what and how we eat. Food and culture play a crucial role in our identity formation. This course explores the intersection of food, identity and globalization, in particular, how through the process of food production, preparation, and consumption, people develop relationships with themselves and others.
Credits: 3
Prerequisites: ANTH 101 and ENG 101.
Notes: Satisfies Multicultural and Social Science Requirements.

ANTH 434 - Ethnohistory
Methodological study applying anthropological concepts to early written sources and recorded oral tradition. Cross-cultural comparisons.
Credits: 3
Prerequisites: ANTH 101.
Notes: Satisfies the Social Science Requirement.
This course is cross-listed with ANTH 634. Credit at the 600-level requires additional work.

ANTH 436 - History of Anthropology
History of the intellectual developments within anthropology.
Credits: 3
Prerequisites: ANTH 101 and upper-division standing.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 636. Credit at the 600-level requires additional work.

ANTH 438 - Ethnographic Field Methods
Surveys methods and techniques of field work. Students do weekly ethnographic projects and write short reports.
Credits: 3
Prerequisites: One of the following: ANTH 101, ANTH 106, PSY 101, PSY 102, SOC 101.

ANTH 440A - Archaeology of North America
Examines the prehistoric occupation of North America from the entry of Native Americans into North America to the arrival of the Spaniards. Discusses early hunter-gatherers, the introduction of agriculture, the development of villages, and the more complex societies that developed in some areas.
Credits: 3
Prerequisites: ANTH 101.
Notes: Satisfies Social Science Requirement.

ANTH 440B - Archaeology of the Great Basin
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.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 640B. Credit at the 600-level requires additional work.

ANTH 440C - Archaeology of the Southwest
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.
Credits: 3
Prerequisites: ANTH 105 or upper-division standing.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 640C. Credit at the 600-level requires additional work.
ANTH 440E - Archaeology of Mexico and Central America
This course is designed to provide an introduction to the prehistory of the peoples of Mesoamerica. It seeks to provide 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.
Credits: 3
Prerequisites: ANTH 105
Notes: Satisfies Social Science Requirement.

ANTH 441B - Near Eastern and Mediterranean Prehistory
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.
Credits: 3
Prerequisites: ANTH 105 and upper-division standing.
Notes: Satisfies the Social Science and Foreign Culture Requirement. This course is cross-listed with ANTH 641B. Credit at the 600-level requires additional work.

ANTH 441C - Peoples and Cultures of Ancient Near East
Examines the background of the contemporary Middle East from an archaeological perspective, starting with the earliest villages and culminating with the civilizations of ancient Mesopotamia, Egypt, the Holy Land, and the Mediterranean.
Credits: 3
Prerequisites: ANTH 101 or ANTH 105.
Notes: Satisfies Foreign Culture Requirement and Social Science Requirements.

ANTH 443 - Environmental Archaeology
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.
Credits: 3
Prerequisites: ANTH 105 and upper-division standing.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 643. Credit at the 600-level requires additional work.

ANTH 444 - Bioarchaeology
Method and theory for the study of human remains in archaeological contexts.
Credits: 3
Prerequisites: ANTH 101 or ANTH 102.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 644. Credit at the 600-level requires additional work.

ANTH 447 - Archaeological Field Methods
Examines the field methods used by archaeologists. Focuses on two cornerstones of fieldwork: survey and excavation. Includes hands-on activities. New techniques for doing fieldwork discussed.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement.

ANTH 448B - Archaeological Field Practicum
Field course in archaeological methods. Instruction in archaeological field techniques through survey and/or excavation.
Credits: 3-6
Notes: Satisfies Social Science Requirement. May be repeated once for a maximum of six credits.

ANTH 449A - Ceramic Analysis in Archaeology
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.
ANTH 449B - Lithic Artifact Analysis
Designed to provide general background on lithic and lithic analysis. Explores lithic technology, typology, and interpretations of lithic assemblage variability.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 649A. Credit at the 600-level requires additional work.

ANTH 449C - Laboratory Methods in Archaeology
This course is 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. It also covers both the field illustration of these materials and their final presentation.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement.

ANTH 449D - Zooarchaeology Laboratory
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.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement.

ANTH 455 - Archaeological Theory
Surveys major theoretical approaches used in archaeology. Examines historical development of these theories and discusses their practical application.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement.

ANTH 456 - Archaeology of Technology
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.
Credits: 3
Prerequisites: ANTH 105.
Notes: Satisfies Social Science Requirement.

ANTH 457 - Archaeology of Complex Societies and Archaic States
This course focuses 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.
Credits: 3
Prerequisites: ANTH 101, ANTH 102 or ANTH 105.
Notes: Satisfies Social Science Requirement.

ANTH 458 - Origins of Inequality: A Cross-cultural Perspective
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.
Credits: 3
Prerequisites: ANTH 101 or ANTH 105.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 658. Credit at the 600-level requires additional work.

ANTH 460 - Primate Evolution
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.
Credits: 3
Prerequisites: ANTH 102.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 658. Credit at the 600-level requires additional work.

ANTH 462 - Human Osteology
Utilization of physical anthropological methods of bone analysis applied to the identification of human and non-human skeletal remains.
Credits: 4
Prerequisites: ANTH 102.
Notes: Lab fee required. Satisfies Social Science Requirement. This course is cross-listed with ANTH 662. Credit at the 600-level requires additional work.

ANTH 464 - Dental Anthropology
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.
Credits: 4
Prerequisites: ANTH 102.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 664. Credit at the 600-level requires additional work.

ANTH 466 - Nutritional Anthropology
(Same as NUTR 466). Provides anthropological perspective on the multifaceted nature of human relationships to food, especially regarding health, disease, and malnutrition in the contemporary world. Variety of theoretical and methodological approaches explored.
Credits: 3
Prerequisites: ANTH 101.
Notes: Satisfies Social Science Requirement. Same as NUTR 466.

ANTH 467 - Health and Disease in Antiquity
(Same as NURS 473.) 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.
Credits: 3
Prerequisites: One of the following: ANTH 102, BIOL 100, BIOL 121, BIOL 189, or NURS 299 or equivalent.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 667. Credit at the 600-level requires additional work.

ANTH 469 - Evolution and Biology of Human Behavior
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.
Credits: 3
Prerequisites: ANTH 102.
Notes: Satisfies International and Social Science Requirements. This course is cross-listed with ANTH 669. Credit at the 600-level requires additional work.
ANTE 471 - Evolution of Human Sexuality
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.
Credits: 3
Prerequisites: ANTH 102.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 671. Credit at the 600-level requires additional work.

ANTE 472 - Hormones and Behavior
Covers the dynamic field of human hormones and behavior. Emphasis is given to human naturalistic and clinical populations. Examples cover a range of topical interests, including sexual behavior, parenting, aggression, and the stress response.
Credits: 3
Prerequisites: ANTH 102, PSY 101.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 672. Credit at the 600-level requires additional work.

ANTE 473 - Anthropology of Violence
This course is 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.
Credits: 3
Prerequisites: ANTH 101 or ANTH 102 or ANTH 105 or ANTH 106 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 673R. Credit at the 600-level requires additional work.

ANTE 475 - Evolutionary Medicine
This course provides an introduction to evolutionary medicine that emphasizes the interplay between human evolutionary history and adaptation. Examples are drawn from societies around the world. Topics include growth, reproduction, diet, activity patterns, aging, and infectious and chronic disease.
Credits: 3
Prerequisites: ANTH 102.
Notes: Satisfies Social Science Requirement. This course is cross-listed with ANTH 675. Credit at the 600-level requires additional work.

ANTE 485 - Language and Culture
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.
Credits: 3
Prerequisites: ANTH 106.
Notes: Satisfies Foreign Culture Requirement. This course is cross-listed with ANTH 685. Credit at the 600-level requires additional work.

ANTE 490 - Study in Anthropology Abroad
Part of International Studies Program. Topics vary from semester to semester.
Credits: 1-3
Prerequisites: Approval of program director required.
Notes: Satisfies Foreign Culture Requirement. May be repeated to a maximum of six credits.

ANTE 491 - Internship in Anthropology
Supervised, on-site research in various participating local organizations to provide practical, applied experience from an anthropological perspective, culminating in a written report. Joint supervision of activity supervisor and instructor.
Credits: 3
Prerequisites: 3.00 GPA, admission to the major, completion of nine credit hours of 300- or 400-level courses within the major, and consent of
instructor.
Notes: S/F grading only.
May be repeated to a maximum of six credits.

ANTH 497A - Senior Thesis I
Provides experience in the definition of research problems, research methods, and presentation of research findings in written and oral form. Year-long course graded at the end of the second semester.
Credits: 3
Prerequisites: Senior standing, consent of advisor, and consent of instructor.

ANTH 497B - Senior Thesis II
Provides experience in the definition of research problems, research methods, and presentation of research findings in written and oral form. Year-long course graded at the end of the second semester.
Credits: 3
Prerequisites: Senior standing, consent of advisor, and consent of instructor.

ANTH 499 - Independent Research
Research or reading to be carried out with the supervision of the instructor.
Credits: 1-3
Prerequisites: Consent of instructor.
Notes: May be repeated to a maximum of six credits.
Department of English

Purpose & Focus
The Department of English offers courses of study leading to the degrees of Bachelor of Arts, Master of Arts, Master of Fine Arts in Creative Writing, and the Ph.D. Our undergraduate program offers a first-rate curriculum at once focused and flexible, intellectually stimulating and practically valuable. Through required courses in the literature of the English-speaking world, in English language and linguistics, and in literary theory, our majors acquire a unique appreciation of the roles language and literature play in shaping the world and its diverse cultures. In relatively small classes devoted to reading, discussing, and writing about literary texts and the fundamental questions they raise, our graduates hone those skills in interpretation, argumentation, and oral and written communication most essential to success in every professional or academic pursuit. They also develop the curiosity and creativity, the compassion and the cultural and historical perspective essential to an engaged and engaging life.

To help majors and non-majors alike define and meet their own personal and professional goals, the department also proudly offers a rich array of elective courses in literature in translation; in creative, business, and technical writing; in professional communication, composition, and editing; as well as classes cross-listed with the African-American, Asian, Classical, Film, and Gender and Sexuality Studies programs.

Finally, the English Department invites students into an intellectual and artistic community that extends well beyond the classroom through our sponsorship of public lectures and literary readings, our production of four journals devoted to literary criticism and creative writing, and our close relationship with Black Mountain Institute and a range of other literary and cultural organizations.

Degree Objectives and Learning Outcomes
Upon completion of the B.A. in English, students will be able to:

- demonstrate familiarity with major authors, works, genres, and movements in British and American literature.
- demonstrate the ability to read, write and think critically.
- demonstrate an understanding of English language and linguistics.
- demonstrate knowledge of theoretical and critical methods.
- demonstrate knowledge of multi-ethnic literature.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
English

Advisement
For general academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Students with questions and concerns about the department’s undergraduate course offerings, programs, and requirements or about post-graduation options and careers should contact the Undergraduate Coordinator, who can also approve exceptions and substitutions when warranted. Failure to seek academic advising may result in delays of anticipated date of graduation.

English Major (BA)

English Major- Bachelor of Arts (BA)
Please see the UNLV English Department web page at http://english.unlv.edu for information about department programs, faculty, and facilities.

Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-
english, https://www.unlv.edu/degree/ba-english-creative-writing, and
https://www.unlv.edu/degree/ba-english-professional-writing.

Please see advising information at the UNLV Wilson Advising Center at
http://liberalarts.unlv.edu/WAC/.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Demonstrate familiarity with major authors, works, genres, and movements in
   British and American literature.
2. Demonstrate the ability to read, write, and think critically.
3. Demonstrate an understanding of English language and linguistics.
4. Demonstrate knowledge of theoretical and critical methods.
5. Demonstrate knowledge of multi-ethnic American literature.

University Graduation Requirements
- Please see Graduation Policies for complete information

English Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 35-40

First-Year Seminar - Credits: 3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 3-6

Mathematics - Credits: 3

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 credits
  - Automatically satisfied by Major requirements
- Social Science: 9 credits
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from Life and Physical Sciences category: at least one must be a lab.

Multicultural and International
(see note 1 below)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - English Major - Subtotal: 60

Foreign Language - Credits: 9

Humanities (included in Foreign Language)

Fine Arts - Credits: 6

English Major Requirements Credits: 45
(see note 2 below)

Writing about Literature - Credits: 3
- ENG 298 - Writing About Literature

Literary Theory - Credits: 3
- ENG 303 - Introduction to Literary Theory and Criticism
Two British Literature Surveys - Credits: 6
• ENG 235 - Survey of English Literature I and
• ENG 236 - Survey of English Literature II
or
• ENG 449A - British Literature I and
• ENG 449B - British Literature II

Two American Literature Surveys - Credits: 6
• ENG 241 - Survey of American Literature I and
• ENG 242 - Survey of American Literature II
or
• ENG 451A - American Literature I and
• ENG 451B - American Literature II

English Language and Linguistics - Credits: 3
• ENG 411A - Linguistics for English Majors or
• ENG 411B - Principles of Modern Grammar
• ENG 414A - History of the English Language or
• ENG 414B - Development of American English or
• ENG 415B - Old English I
(this course may be used to satisfy the English Language and Linguistics requirement OR to satisfy three credits of the Foreign Language requirement but NOT both.)

English Electives - Credits: 24

Eight 400-level courses. Must include at least two courses in literature prior to 1800 and one course in multi-ethnic literatures.
Creative Writing Minor

Courses include - Total Credits: 21

- ENG 205 - Introduction to Creative Writing: Fiction and Poetry
- ENG 402A - Advanced Creative Writing (6 credits)
and four additional 400-level English courses

English

ENG 98 - Preparatory Composition
Writing-intensive workshop course for students with low placement scores to help them learn and practice college-level critical reading and essay writing strategies.
Credits: 3
Notes: Credit for this course does not count toward the total needed for graduation. S/F grading only.

ENG 101 - Composition I
Evidence-based, writing intensive course designed to improve critical thinking, reading, and writing proficiencies through guidance in writing the thesis-driven essay. Students develop strategies for turning their experience, observations, and analyses into evidence suitable for academic writing. Emphasis on writing the short, focused, concretely developed college paper.
Credits: 3
Prerequisites: 500 SAT Critical Reading, or 18 ACT English, or 9 ENGPLACE, or ENG 98, or ERWS 480.

ENG 101E - Composition I Extended I
The first part of the ENG 101E/101F sequence, an alternative to ENG 101 for students requiring additional instruction in critical thinking, reading, and writing the thesis-driven essay.
Credits: 3
Notes: Completion of both ENG 101E and 101F fulfills ENG 101 requirement. S/U grading only.

ENG 101F - Composition I Extended II
ENG 101F is the second part of the ENG 101E/101F sequence, an alternative to ENG 101 for students requiring additional instruction in critical thinking, reading, and writing the thesis-driven essay.
Credits: 3
Prerequisites: Satisfactory completion of ENG 101E.
Notes: Completion of both ENG 101E and 101F fulfills ENG 101 requirement.

English Minor

Courses Include - Total Credits: 24

- ENG 449A - British Literature I
- ENG 449B - British Literature II
- ENG 298 - Writing About Literature
- ENG 451A - American Literature I
- ENG 451B - American Literature II

and three additional 400-level English courses.

Professional Writing Minor

Courses include - Total Credits: 21

- ENG 407A - Fundamentals of Business Writing
  or
- ENG 407B - Fundamentals of Technical Writing
- ENG 400 - Document Design
- ENG 407C - Advanced Professional Communication
- ENG 406B - Electronic Documents and Publications

and three additional English courses (200-level or above)
ENG 102 - Composition II
Builds on the critical thinking, reading, and writing skills developed in ENG 101. Students learn the processes necessary for collecting and incorporating research material into their writing. They learn to cite and document research sources and how to develop arguments and support them with sound evidence.
Credits: 3
Prerequisites: ENG 101, ENG 101F, or ACT ENGL score 30, or SAT VERB score 680, or SA95 VERB score 680, or SAT ERWS score of 660.
Notes: Research paper and library orientation required.

ENG 113 - Composition I for International Students
For non-native speakers of English to develop fluency and confidence in writing by extensive practice in the narrative, descriptive, and expository modes of discourse.
Credits: 3
Prerequisites: Michigan placement test score of 76+ and score of 40+ on writing sample, or TOEFL score of 500+ and Test of Written English score of 5+.

ENG 113E - Composition I for International Students Extended I
ENG 113E is first part of two-term sequence. Instruction in narrative, descriptive, expository writing for NNS students better served with a two-semester format for mastering academic writing.
Credits: 3
Prerequisites: Placement (TOEFL CBT 167, MTEL 70, or IBT 60 and TWE 4 or equivalent).
Notes: S/F grading only. May be repeated to a maximum of six credits.

ENG 113F - Composition I for International Students Extended II
ENG 113F is the second part of the ENG 113E/F sequence, an alternative to ENG 113. Limited to non-native speakers, the course focuses on critical thinking and the thesis driven essay. Completion of ENG 113E/F satisfies the requirement for Freshman Composition I.
Credits: 3
Corequisites: S in ENG 113E.
Prerequisites: Satisfactory completion of ENG 113E and instructor approval. Letter grade.

ENG 114 - Composition II for International Students
Continuation of ENG 113 with emphasis on critical thinking and practice in persuasive discourse, as applied to selected literary texts.
Credits: 3
Prerequisites: ENG 113 or ENG 113F or ENG 101 or ENG 101F
Notes: Intended to meet the needs of non-native speakers of English. Library orientation required. Satisfies the ENG 102 requirement for international students.

ENG 203 - Introduction to Literary Study
Critical examination of selected literary works, emphasizing the techniques of literary analysis.
Credits: 3

ENG 205 - Introduction to Creative Writing: Fiction and Poetry
Workshop designed to hone students’ skills in writing fiction or poetry.
Credits: 3
Notes: S/F grading only.

ENG 206 - Intermediate Composition
Builds on writing competencies developed in ENG 101 and ENG 102. Includes more advanced rhetorical strategies, including the use of visual rhetoric, and explores a variety of academic,
professional, and public genres.
Credits: 3

**ENG 210 - Introduction to Semantics**
Forms of linguistic expression through a survey of the principles of general semantics.
Credits: 3

**ENG 211 - Introduction to Linguistics**
Development and fundamental concepts of the linguistic approach to grammar and language analysis.
Credits: 3

**ENG 231 - World Literature I**
Introduces students to world masterworks from antiquity through the mid-seventeenth century.
Credits: 3
Prerequisites: ENG 101 and ENG 102
Notes: Fulfills Second Year Seminar requirement.

**ENG 231E - World Literature for Exploring Majors**
Introduces students to world masterworks from antiquity through the present day. Designed for Academic Success Center students.
Credits: 3
Prerequisites: ENG 101 and ENG 102 or equivalent.
Notes: Fulfills the university Second-Year Seminar (SYS) requirement.

**ENG 231S - World Literature for the Sciences**
Introduces students to world masterworks from antiquity through the present day. Designed for College of Sciences students.
Credits: 3
Prerequisites: ENG 101 and ENG 102 or equivalent.
Notes: Fulfills the university Second-Year Seminar (SYS) requirement.

**ENG 232 - World Literature II**
Introduces students to world masterworks from the mid-seventeenth century to the present.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
ENG 252 - Introduction to Drama
Elements of drama, its basic forms, representative plays of world drama.
Credits: 3

ENG 253 - Introduction to Contemporary Drama
American, English, and European drama of the period since World War II, including such writers as Miller, Albee, Ionesco, and Pinter.
Credits: 3

ENG 261 - Introduction to Poetry
Elements of poetry, its basic types and forms, representative poets in English.
Credits: 3

ENG 271 - Introduction to Shakespeare
Selected works by Shakespeare. Specifically designed for non-English majors.
Credits: 3
Notes: English majors should enroll in ENG 434A or ENG 434B.

ENG 275 - Contemporary Literature
Reading of recent literature of various types to acquaint students with contemporary writers.
Credits: 3

ENG 278 - Readings in the Contemporary Novel
Study of the post-World War II novel, its development, and direction.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 290 - Introduction to African-American Literature
Introduction to the poetry, fiction, drama, and non-fiction of African-Americans.
Credits: 3
Notes: Satisfies the Multicultural and Humanities Requirement. Same as AAS 290.
Same as AAS 290

ENG 291 - Slave Narratives, Literature, and Imagery
Interdisciplinary examination of American slavery through the narrative form, including autobiographical, literary, and cinematic sources. Includes slave narratives and novels, as well as films. Focuses on the ways American slavery is interpreted through these and other popular forms.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as AAS 291.

ENG 292 - Introduction to Chicano Literature
Introduction to Chicano literature through a study of classic and contemporary works of prose, poetry, and theater. Intended for non-English majors.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies the Multicultural and Humanities Requirement.

ENG 298 - Writing About Literature
A writing-intensive introduction to English studies, including the genres of poetry, fiction, and drama and the basic methods and terms of analysis. Primarily designed for English majors and minors and for Education majors with an English emphasis.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 303 - Introduction to Literary Theory and Criticism
Survey of literary theory and criticism from Plato and Aristotle to the present.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 400 - Document Design
Explores fundamental theories and practices of designing professional documents. Considers how design is influenced by genre and rhetorical
context.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Students will use appropriate tools to design printed documents.

ENG 401A - Advanced Composition
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.
Credits: 3
Prerequisites: ENG 102.
Notes: This course is cross-listed with ENG 601A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits with consent of instructor.

ENG 402A - Advanced Creative Writing
Advanced workshop designed to hone students' skills in writing fiction, nonfiction, or poetry.
Credits: 3
Prerequisites: ENG 205
Notes: S/F grading only. This course is cross-listed with ENG 602A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 405B - Research and Editing
Library research, as distinct from experimental or laboratory research, and report writing and editing for students in all disciplines.
Credits: 3
Prerequisites: Consent of instructor.
Notes: This course is cross-listed with ENG 605B. Credit at the 600-level requires additional work.

ENG 405C - Writing for Publication
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.
Credits: 3
Prerequisites: ENG 401A.

ENG 406B - Electronic Documents and Publications
Explores advanced principles of information architecture and content development for web-based documents and publications. Students will plan, design, develop, edit and publish in a variety of web-based genres.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 407A - Fundamentals of Business Writing
Examines the rhetorical principles and composing practices necessary for writing effective business letters, memos, and reports.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 407B - Fundamentals of Technical Writing
Examines the rhetorical principles and composing practices necessary for writing effective technical documents and the role of writing in technical and industrial settings.
Credits: 3
Notes: This course is cross-listed with ENG 607B. Credit at the 600-level requires additional work.

ENG 407C - Advanced Professional Communication
Analyzes a range of professional writing topics, applying rhetorical theories and techniques to specific professional writing situations, especially within organizations.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 409A - 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.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
ENG 409B - 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.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 609B. Credit at the 600-level requires additional work.

ENG 410A - Semantics
Study of meanings in the English language using the principles of discourse analysis, speech act theory, and pragmatics: analyzing advertising, political rhetoric, interpersonal relationships, and literature.
Credits: 3

ENG 411A - Linguistics for English Majors
Applies the principles of linguistics to the analysis of English poetry and prose.
Credits: 3

ENG 411B - Principles of Modern Grammar
Surveys the structure of contemporary English grammar. Examines the workings of the English language from a linguistic perspective, concentrating primarily on sentence structure.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 611B. Credit at the 600-level requires additional work.

ENG 414A - History of the English Language
History and development of the English language from its beginnings.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
ENG 422A - Topics in Literary Theory
Selected topics and issues in literary and cultural theory.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 622A. Credit at the 600-level requires additional work. May be repeated for a maximum of six credits.

ENG 423A - Modern Literature
Survey of modern writing, with emphasis on the sources of contemporary literary theories and techniques.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 425A - Themes of Literature
Study of themes, ideas, or literary attitudes significant in literary history.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 625A. Credit at the 600-level requires additional work. May be repeated to a maximum of nine credits.

ENG 426A - Religion and Literature
Insights and relationships of religious themes, beliefs, and assumptions as they may bear upon the analysis of literary texts.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 626A. Credit at the 600-level requires additional work.

ENG 426B - Mythology
Study of mythologies, such as Greek, Roman, and Native American, in cultural context.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 626B. Credit at the 600-level requires additional work.

ENG 427B - Gender and Literature
Study of gender and literature through the ages. Focus may be aesthetic, historical, or thematic.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Same as WMST 427B. Topics may vary. This course is cross-listed with ENG 627B. Credit at the 600-level requires additional work. May be repeated for a maximum of six credits.

ENG 429A - Early American Humor
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.
Credits: 3
Notes: This course is cross-listed with ENG 629A. Credit at the 600-level requires additional work.

ENG 429B - Modern American Humor
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.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 629B. Credit at the 600-level requires additional work.

ENG 429C - Literature of the American West
Study of literature of the American West.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 629C. Credit at the 600-level requires additional work.

ENG 430A - Major Figures in British Literature
Seminar on one or more major figures in English literature.
Credits: 3
Notes: This course is cross-listed with ENG 630A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 432A - Chaucer
Study of the works of Geoffrey Chaucer, with emphasis on the Canterbury Tales.
ENG 434A - Shakespeare: Tragedies
Intensive study of Shakespeare's major tragedies.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 634A.
Credit at the 600-level requires additional work.

ENG 434B - Shakespeare: Comedies and Histories
Intensive study of Shakespeare's major comedies and histories.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 634B.
Credit at the 600-level requires additional work.

ENG 435A - Milton
Intensive study of Milton's poetry and selected prose.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 635A.
Credit at the 600-level requires additional work.

ENG 436A - Major Figures in American Literature
Seminar on one or more major figures in American literature.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 636A.
Credit at the 600-level requires additional work.

ENG 440A - Medieval English Literature
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.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 640A.
Credit at the 600-level requires additional work.
May be repeated to a maximum of six credits.

ENG 441A - The Renaissance
Study of English literature of the sixteenth century, primarily Elizabethan.
Credits: 3
Notes: This course is cross-listed with ENG 641A.
Credit at the 600-level requires additional work.

ENG 441B - Gender and Renaissance Literature
Study of gender and literature in the Renaissance.
Credits: 3
Notes: Same as WMST 441B. Topics may vary. This course is cross-listed with ENG 641B. Credit at the 600-level requires additional work.

ENG 442A - The Seventeenth Century
Study of English literature from 1603 to 1660.
Credits: 3
Notes: This course is cross-listed with ENG 642A.
Credit at the 600-level requires additional work.

ENG 443A - Restoration and Augustan Literature
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.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 643A.
Credit at the 600-level requires additional work.
ENG 443C - Later Eighteenth-Century Literature
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.
Credits: 3
Notes: This course is cross-listed with ENG 643C. Credit at the 600-level requires additional work.

ENG 444B - The Romantic Poets
Major poets in the Romantic Movement.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 644B. Credit at the 600-level requires additional work.

ENG 445B - Victorian Poetry
Poetry of the middle and later nineteenth century.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 645B. Credit at the 600-level requires additional work.

ENG 445C - Nineteenth-Century Prose Writers
Major prose writers of the Romantic and Victorian periods and their intellectual and literary milieu.
Credits: 3
Notes: This course is cross-listed with ENG 645C. Credit at the 600-level requires additional work.

ENG 446A - Modern British Literature
Study of British writing since 1900, including fiction, drama, and poetry.
Credits: 3
Notes: This course is cross-listed with ENG 646A. Credit at the 600-level requires additional work.

ENG 446B - Gender and Modern British Literature
Study of gender and literature in the British tradition.
Credits: 3
Notes: Same as WMST 446B. Topics may vary. This course is cross-listed with ENG 646B. Credit at the 600-level requires additional work.

ENG 449A - British Literature I
Major authors and works in British literature from the beginning through the eighteenth century.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 449B - British Literature II
Major authors and works in British literature from the nineteenth century to the present.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 451A - American Literature I
Major figures and movements from the beginnings to the Civil War.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 451B - American Literature II
Major figures and movements from the Civil War to the present.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 452A - American Literature, 1620-1800
Study of American writing through 1800.
Credits: 3
Notes: This course is cross-listed with ENG 652A. Credit at the 600-level requires additional work.

ENG 452B - American Literature, 1800-1865
Study of American literature from 1800 to 1865.
Credits: 3
Notes: This course is cross-listed with ENG 652B. Credit at the 600-level requires additional work.

ENG 453A - American Literature, 1865-1918
Study of American literature from the Civil War through World War I.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 653A. Credit at the 600-level requires additional work.
ENG 453B - American Literature, 1918-Present
Study of American literature from 1918 to the present.
Credits: 3
Notes: This course is cross-listed with ENG 653B.
Credit at the 600-level requires additional work.

ENG 454B - Gender and Modern American Literature
Study of gender and literature in the American tradition.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Same as WMST 454B. Topics may vary. This course is cross-listed with ENG 654B. Credit at the 600-level requires additional work.

ENG 460 - The American Short Story
Survey of the short story in America from the beginnings to modern times.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 660. Credit at the 600-level requires additional work.

ENG 460A - Heroic Epic
Comparative approach to the forms, themes, and manners of performance of the epic and closely related genres.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 660A. Credit at the 600-level requires additional work.

ENG 461A - The Study of Poetry and Poetics
Provides the student with the basic tools for the intelligent reading of poetry by extensive reading of poetry by English and American authors.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 661A. Credit at the 600-level requires additional work.

ENG 462A - Modern British Poetry
Study of twentieth-century British poetry since 1900.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 662A. Credit at the 600-level requires additional work.

ENG 462C - Modern American Poetry
Study of American poetry since 1900.
Credits: 3
Notes: This course is cross-listed with ENG 662C. Credit at the 600-level requires additional work.

ENG 463A - Classical Drama in Translation
Study of major Greek and Latin playwrights.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Same as CLA 450. This course is cross-listed with ENG 663A. Credit at the 600-level requires additional work.

ENG 464A - English Drama to 1642
Survey of medieval and Renaissance drama to the closing of the theaters.
Credits: 3
Notes: This course is cross-listed with ENG 664A. Credit at the 600-level requires additional work.

ENG 465B - Restoration and Eighteenth-Century Drama
Survey of English drama from 1660 to 1800.
Credits: 3
Notes: This course is cross-listed with ENG 664B & ENG 665B. Credit at the 600-level requires additional work.

ENG 466A - Nineteenth-Century Drama
Study of world drama in the nineteenth century.
Credits: 3
Notes: This course is cross-listed with ENG 666A. Credit at the 600-level requires additional work.
ENG 467A - Modern British Drama
Study of British drama from Shaw to the present.
Credits: 3
Notes: This course is cross-listed with ENG 667A.
Credit at the 600-level requires additional work.

ENG 467B - Modern American Drama
Study of American drama since 1900.
Credits: 3
Notes: This course is crosslisted with ENG 667B.
Credit at the 600-level requires additional work.

ENG 470A - The British Novel I
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 subgenres of Gothic and historical fiction.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 670A.
Credit at the 600-level requires additional work.

ENG 470B - The British Novel II
Study of the British novel from about 1800 to 1914. Topics may include the role of serialization and the circulating library and subgenres such as the bildungsroman, the social-problem novel, and imperial Gothic.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 670B.
Credit at the 600-level requires additional work.

ENG 471A - Modern English Novel
British fiction from Conrad to 1945.
Credits: 3
Notes: This course is cross-listed with ENG 671A.
Credit at the 600-level requires additional work.

ENG 471B - Contemporary English Novel
British fiction since 1945.
Credits: 3
Notes: This course is cross-listed with ENG 671B.
Credit at the 600-level requires additional work.

ENG 473A - The Early American Novel
Study of the development of the novel in America to the time of Twain.
Credits: 3
Notes: This course is cross-listed with ENG 673A.
Credit at the 600-level requires additional work.

ENG 473B - The Modern American Novel
The American novel from Twain through 1945.
Credits: 3
Notes: This course is cross-listed with ENG 673B.
Credit at the 600-level requires additional work.

ENG 473C - The Contemporary American Novel
The American novel since 1945.
Credits: 3
Notes: This course is cross-listed with ENG 673C.
Credit at the 600-level requires additional work.

ENG 474A - The Modern Short Story
The Modern Short Story.
Credits: 3

ENG 476A - Studies in British Film
Study of the history of British film emphasizing analysis of a variety of films. Examines particular genres, directors, and traditions peculiar to British film and the relationship of British film to England's broader cultural development.
Credits: 3
Notes: Same as FILM 493.

ENG 476B - History of the American Film
Examination of the films of major directors from D.W. Griffith in the Biograph period (1908-1912) to the present. Filmmakers such as John Ford, Howard Hawks, Orson Welles, George Cukor, Robert Flaherty, Frank Capra, Raoul Walsh, and others.
Credits: 3
Notes: Same as FILM 494.

ENG 477A - Film and Literature
Comparative study of the relations of prose, poetry, and drama to the structure and themes of the cinema, from Dickens to the present.
ENG 477B - The American Hero in Film and Literature
Traces the origins and the development of the American hero from roots in myth, folklore, and history to the 1950s.
Credits: 3
Notes: Same as FILM 495.
May be repeated to a maximum of six credits.

ENG 477C - Genre Studies in Film
Individual examinations of genre structures and themes, with emphasis on the development and the history of genres.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Same as FILM 496.
May be repeated to a maximum of nine credits.

ENG 481A - Comparative Literature
Intensive analysis of selected masterpieces of the Western world to the beginning of Romanticism.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 481B - Modern Comparative Literature
Intensive analysis of selected masterpieces of the Western world from Romanticism to the twentieth century.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

ENG 484A - The Bible as Literature
Study of selected books of the Old and New Testaments as literature in their broader cultural contexts.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 684A.
Credit at the 600-level requires additional work.

ENG 485A - Asian Literature
Study of modern and contemporary Asian literature, including comparison and contrast with Western literature and culture.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Content varies by semester.
Same as AIS 485A Credit at the graduate-level requires additional work; this course is crosslisted with ENG 685A

ENG 486A - Postcolonial Theory
Examines the significance of the Other in the ex-colony. The course reflects on colonialism, independence, subordination, hybridity, resistance, and ideology. Authors studied may include Frantz Fanon, C.L.R. James, Edward Said, Homi Bhabha, Gayatri Spivak, Malcolm X, Stephen Greenblatt, among others.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 686A.
Credit at the 600-level requires additional work.

ENG 486B - Postcolonial Literature
Probes literature from the ex-colony: Africa, the Caribbean, Ireland, India, America, Canada, Australia. Authors studied may include V.S. Naipaul, Derek Walcott, Wole Soyinka, Salman Rushdie, Jamaica Kincaid, Toni Morrison, Claude McKay, Maya Angelou, David Dabydeen, Chinua Achebe, among others.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: This course is cross-listed with ENG 686B.
Credit at the 600-level requires additional work.

ENG 491B - Environmental Literature
Study of environmental literature, both fiction and non-fiction.
Credits: 3
Notes: This course is cross-listed with ENG 691B.
Credit at the 600-level requires additional work.

ENG 494A - Native-American Literature
Literature of Native-American peoples, oral traditions through contemporary works.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies the Multicultural Requirement. Same as AIIS 494A. This course is crosslisted with ENG 694A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits. Same as AIIS 494A Credit at the graduate-level requires additional work; this course is crosslisted with ENG 694A

ENG 495A - Early African-American Literature
Study of early African-American literature, with emphasis upon the historical development of the African-American tradition in creative and critical writing.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as AAS 491. This course is crosslisted with ENG 695A. Credit at the 600-level requires additional work. Same as AAS 491 Credit at the graduate-level requires additional work; this course is crosslisted with ENG 695A

ENG 495B - Modern African-American Literature
Study of recent and contemporary works of African-American literature.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as AAS 492. This course is crosslisted with ENG 695B. Credit at the 600-level requires additional work. Same as AAS 492 Credit at the graduate-level requires additional work; this course is crosslisted with ENG 695B

ENG 496A - Themes in Modern Chicano Literature
Intensive study of major themes and techniques in the prose, poetry, and theater of Chicano writers since 1950.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as LAS 496A

ENG 496B - Early Latino/a Literature
Examines prose and poetry by Latino and Latina writers from the colonial era through the end of the nineteenth century in the United States.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Same as LAS 496 Credit at the graduate-level requires additional work; this course is crosslisted with ENG 696B

ENG 496D - Contemporary Latino/a Literature
Examines prose and poetry by Latino and Latina writers since 1900 in the United States.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies Humanities and Multicultural Requirements. Same as LAS 496D Credit at the graduate-level requires additional work; this course is crosslisted with ENG 696C

ENG 499 - Independent Study
Open to juniors and seniors with consent of the department chair and an assigned instructor.
Credits: 1-3
Prerequisites: ENG 101 and ENG 102. May be repeated to a maximum of six credits.
English Language Center

Purpose and Focus
The English Language Center (ELC) provides instruction in English language and American culture to immigrant and international students whose native languages are other than English. The center serves this ethnically diverse population by providing greater access to higher education for students from some 70 different nations and ethnic groups. These students prepare for academic success by engaging in a six-level program that focuses on oral/written communication and academic skills. The ELC also serves the needs of working members of the community who need English language skills to enhance employment and social opportunities. Instruction in the center is accomplished in a climate of mutual respect and acceptance that is inviting to the adult learner.

Areas of Concentration
Although enrollment in the ELC does not lead to a degree, students can pursue credit-bearing course work in the following areas of English language development: composition, grammar, academic study skills, oral presentation, critical listening, reading, American idioms and vocabulary, pronunciation, and American culture.

Department Policies
Continuous Enrollment: International students who have been admitted to the English Language Center must maintain continuous enrollment with a balance of 12 credits during each spring and fall semester. Full-time international students who drop below 12 credits are subject to having their student visas revoked.

One-Year Requirement
International students are allowed one calendar year of attending classes in the English Language Center in order to complete their English language requirement (76 on the MTELP, 173 on the CBT or 61 on the IBT). Students failing to meet these criteria are subject to having their student visas revoked.

Minimum GPA
Students in the ELC must maintain a 2.30 GPA or be subject to probation.

Testing
The ELC’s testing program offers the following examinations: Michigan Test of English Language Proficiency (MTELP), Placement Test, and SPEAK (Test of Spoken English).

Language Resource Center
A multimedia language resource center is located in FDH 240. It is available to all registered ELC students for improving their English language skills.

Advisement
Any student without a TOEFL score will be given a diagnostic placement examination for the purpose of determining appropriate course work. Students seeking admission to the university will take the MTELP while non-degree seeking students may take the Placement Test. Following testing, students are interviewed individually by the director of the ELC, and course work is suggested. Each semester prior to registration, student records are individually reviewed and additional course work is suggested as necessary.

Advanced English Proficiency Certificate

The Certificate of Advanced English Proficiency is an undergraduate certificate designed to prepare non-native speakers to engage in academic and professional work in an English-speaking setting. Entering students must have the equivalency of a high school diploma or greater and must score a minimum of 60 on the MTELP administered by the English Language Center or a 53 on the iBT TOEFL (or equivalent). Participants are required to complete 12 credits in grammar, writing, listening/speaking, and reading/vocabulary English...
language courses offered at the advanced level. Students will earn an additional three credits by completing one of the optional English language classes designed to enhance fluency.

Students who complete the certificate will be able to express themselves fluently and spontaneously without hesitation; will use English effectively for social, academic, and professional purposes; and will produce clear, well-structured texts on a variety of subjects showing controlled use of various organizational patterns, connectors, and cohesive devices.

Required Certificate Courses:

- ESL 161 - Advanced Grammar
- ESL 164 - Advanced Reading and Vocabulary
- ESL 167 - Advanced Composition
- ESL 169 - Advanced Speaking and Listening

Required Certificate Electives: 3 credits from among the following electives:

- ESL 160 - Vocabulary and Idioms of American English-Int/Adv
- ESL 174 - American Culture: Reading and Speaking
- ESL 176 - Academic Study Skills for ESL Students
- ESL 180 - Editing Skills for ESL Writers

Academic English Certification

The Academic English Certification is an undergraduate certificate designed to offer an alternative pathway to admission into UNLV academic majors. Completion of the Academic English Certification with a GPA of 3.0 can be used in lieu of a qualifying score on the TOEFL, MTEL, PTE or IELTS exams. Entering students must have a score of 70 on the MTEL Placement Test. Participants are required to complete 12 credits in advanced grammar, reading, writing and oral English competency skills. In addition, participants must complete 2-3 credits from among the list of elective courses.

Students who complete the Academic English Certification with a GPA of 3.0 will be able to read critically in a variety of genres; write expository essays and academic summaries, use grammatical structures accurately; speak with confidence, fluency and control in formal and informal oral communication.

Courses Include - Total Credits: 15

Required Certificate Courses 12 credits:

- ESL 162 - Advanced Applied Grammar
- ESL 165 - Advanced Reading and Writing
- ESL 168 - Advanced Academic Writing
- ESL 185 - Advanced English Competency

Required Certificate Electives: 2-3 credits from among the following electives:

- ESL 160 - Vocabulary and Idioms of American English-Int/Adv
- ESL 174 - American Culture: Reading and Speaking
- ESL 176 - Academic Study Skills for ESL Students
- ESL 180 - Editing Skills for ESL Writers
- ESL 380 - Advanced Oral Presentation Skills

English Language Center

ESL 101 - Communicating in English I
Integrated skills course providing communicative practice in speaking, listening, reading, and writing at the beginning level. Emphasis on basic grammatical structures enables students to expand oral and written competency.
Credits: 1-3

ESL 102 - Communicating in English II
Comprehensive course at the high beginning level which reinforces reading, writing, speaking, listening and grammar skills. Lessons organized thematically with activities that simulate real oral and written communication and build self-
confidence and fluency.
Credits: 1-3

ESL 103 - Communicating in English III
Intermediate multi-skilled approach to communicating in English. Emphasizes oral and written competence as preparation for advanced English study in an academic setting. Focuses on oral interaction, reading strategies, vocabulary development, and written rhetorical patterns.
Credits: 1-3

ESL 104 - Communicating in English IV
Integrated skills course providing communicative practice in speaking, listening, reading, writing, and grammar at a high-intermediate level. Exposure to new vocabulary via high interest academic topics.
Credits: 1-3

ESL 105 - Communicating in English V
Multi-skilled approach to communicating in English. Focus is on oral interaction, reading strategies, vocabulary development, and composition at a low-advanced level.
Credits: 1-3

ESL 106 - Communicating in English VI
Advanced level integrated skills course focusing on academic speaking, listening, reading, and writing. Emphasizes problem solving and error correction.
Credits: 1-3

ESL 107 - Computer Assisted ESL I
Instructor guided and computer assisted skills development for beginning to intermediate ESL learners in reading, vocabulary, pronunciation, listening, grammar and writing. Enrollment is limited to non-native speakers of English.
Credits: 1-3

ESL 108 - Computer Assisted ESL II
Instructor guided and computer assisted skills development for high intermediate to advanced ESL learners in reading, vocabulary, pronunciation, listening, grammar and writing. Enrollment is limited to non-native speakers of English.
Credits: 1-3

ESL 141 - Pronunciation and Listening Comprehension — Beginning
Through a series of extensive listening activities, students learn effective listening strategies, which, in turn lead to language acquisition. The sound system, stress and intonation, and rhythm of spoken English introduced.
Credits: 1-3

ESL 142 - Basic English Grammar
Introduces the rudimentary syntactic structures of English, promoting the development of speaking, listening, and writing skills as well as situationally appropriate usage.
Credits: 1-3

ESL 143 - English for Hospitality - ESL
Focuses on phrases, vocabulary and idioms used by hospitality professionals. Particular emphasis on realistic and integrated communication tasks that build fluency for English language learners.
Credits: 1-3
May be repeated to a maximum of six credits.

ESL 144 - Business English ESL
Focuses on phrases, idioms, vocabulary and expressions used in American business. Emphasizes listening, speaking and writing in communicative and business contexts.
Credits: 1-3
May be repeated to a maximum of six credits.

ESL 146 - Beginning Speaking and Listening
Emphasizes listening/speaking strategies and introduces academic rhetorical patterns. Orient students to reduced pronunciation and stress and intonation patterns in "everyday" English.
Credits: 1-3

ESL 147 - Beginning Reading and Writing
Integrated pre-academic reading and writing class emphasizing content comprehension, vocabulary
development, effective reading strategies, outlining, note-taking, and expository writing. Credits: 1-3

**ESL 150 - Intermediate Pronunciation**
Designed to help students improve pronunciation and discrimination of English sounds. Focuses on English vowel and consonant production as well as stress and intonation patterns in connected speech. Credits: 1-3

**ESL 151 - Intermediate Grammar — Part I**
Targets grammar points from a communicative perspective. Emphasis on the basic English verb system, including modal auxiliaries, phrasal verbs, and irregular verbs. Introduces gerunds and infinitives and basic clauses. Focuses on oral communication. Credits: 1-3

**ESL 152 - Intermediate Grammar — Part II**
Targets more advanced points of the verb system including passive voice, time frames and time shifting to fine-tune discourse. Introduces conditionals; adjective, noun, and adverbial clauses; reflexive and reciprocal pronouns; and embedded questions. Focuses on written communication. Credits: 1-3

**ESL 153 - Intermediate Reading and Discussion**
Enhances development and fluency of vocabulary through reading and discussion at a low intermediate level. Short, high-interest reading selections prepare students to process the English language both orally and in writing. Credits: 1-3

**ESL 154 - Intermediate Reading and Vocabulary**
Short fiction and non-fiction readings on American culture and education. Vocabulary and study of words, meanings, and synonyms. Words selected from intermediate-range frequency lists. Group and individual work. Credits: 1-3

**ESL 155 - Intermediate Reading and Writing**
Reading and writing integrated via current topics of interest to ESL learners. Explores the connection between reading and writing in stimulating contexts. Credits: 1-3

**ESL 156 - Grammar for Communication**
For the student who is fairly fluent but continues to make errors that interfere with communication. Focuses on accurate syntax in oral and written communication by teaching and applying self-editing, self-correcting strategies. Credits: 1-3

**ESL 157 - Intermediate Composition**
Sentence variety and practice in expressing complex ideas in written form. Emphasis on different ways of writing complete sentences. Credits: 1-3

**ESL 158 - Intermediate Conversation: Special Topics**
Develops conversational skills and strategies while exploring special topics such as American culture, environment, economy, business, and current events. Credits: 1-3

**ESL 159 - Intermediate Speaking and Listening**
Students build fluency and accuracy of their listening and speaking skills through an integrated, thematic approach. Listening skills include listening for main idea, details, emotions, and context. Speaking skills include conversation, discussion, presentation, and interviewing. Credits: 1-3

**ESL 160 - Vocabulary and Idioms of American English-Int/Adv**
Focuses on academic vocabulary (learning affixes and 300 common Latin and Greek bases) and on
ESL 161 - Advanced Grammar
Emphasizes formal rules of grammar, which are embedded in communicative contexts to help students internalize English structures. Written and oral practice helps students bridge the gap between knowing and using grammatical structures correctly. Intended for ESL students who already have a solid foundation in the fundamentals of English grammar.
Credits: 1-3

ESL 162 - Advanced Applied Grammar
Focus on the grammar of written English in academic contexts. Students learn time frames and self-editing, rather than grammar in isolation.
Credits: 1-3

ESL 163 - Advanced Reading and Discussion
Reading, discussion, and study skills. Understanding vocabulary in context, complex grammatical structures in reading passages, and the content of academic topics. Organizing and processing information in both oral and written English.
Credits: 1-3

ESL 164 - Advanced Reading and Vocabulary
Approaches reading as a problem-solving process with emphasis on critical thinking skills, grammatical structure analysis, and vocabulary acquisition. Incorporates a variety of text patterns from editorials to literature. Word study focuses on the attainment of roots, stems, and affixes.
Credits: 1-3

ESL 165 - Advanced Reading and Writing
Process approach to developing advanced writing skills. Readings from various disciplines and writing assignments improve fluency, essay test taking ability, and research paper writing.
Credits: 1-3

ESL 166 - Advanced Composition
Paragraph development, unity, coherence, and logical presentations studied and practiced. Polishes the writing of students whose native language is not English.
Credits: 1-3

ESL 168 - Advanced Academic Writing
Academic writing skills for specific purposes: exposition, argumentation, persuasion, and analysis. Critical thinking and writing encouraged through reading and responding to fiction and nonfiction.
Credits: 1-3

ESL 169 - Advanced Speaking and Listening
Advanced auditory retention span, repetition, and memorization. Emphasis on pronunciation of English vowels and diphthongs which are especially difficult for ESL students. Group exercises and individual work.
Credits: 1-3

ESL 170 - Independent Study
Individual instruction in one of the following areas: speaking and listening; grammar; reading and vocabulary; or composition. One-hour weekly meetings and individualized laboratory work on the topic agreed to by the student and instructor.
Credits: 1-3

ESL 171 - Technical English for ESL
Prepares non-native speakers to engage effectively in business and technical situations. Students practice oral and written communication of specialized English at the high-intermediate to advanced level. Quantitative English and technical vocabulary emphasized.
Credits: 1-3

ESL 174 - American Culture: Reading and Speaking
Focus on American culture while emphasizing reading, conversation, and vocabulary. Students...
examine American values/behavior in terms of work, relationships and non-verbal communication.

Credits: 1-3

**ESL 176 - Academic Study Skills for ESL Students**

Students prepare for academic success, building skills in time management, note-taking, study strategies, critical thinking, report-writing, and research techniques.

Credits: 1-3

**ESL 178 - Vocabulary Development**

*Intermediate/Advanced*

Focuses on the denotative and connotative meaning of vocabulary items from multiple sources and varied topics used in academic disciplines.

Studies word formation: roots, stems, and affixes.

Bridge course that prepares students for major course work in academic major.

Credits: 1-3

**ESL 180 - Editing Skills for ESL Writers**

Instruction in editing fundamentals for ESL writing with emphasis on English grammar, punctuation, spelling, sentence structure, and paragraph organization.

Credits: 1-3

May be repeated to a maximum of six credits.

**ESL 185 - Advanced English Competency**

Integrated skills course in reading, vocabulary, grammar, listening and writing at the high-advanced level. An ESL capstone course for students preparing for major course work in an academic major.

Credits: 1-3

**ESL 380 - Advanced Oral Presentation Skills**

Enhancement of oral presentation and pronunciation skills for international teaching assistants and foreign-born professionals. Focuses on accent reduction, rhythm and intonation, and public speaking.

Credits: 1-3

May be repeated to a maximum of six credits.
Department of History

Purpose and Focus
The History Department seeks first to provide students with a broad knowledge of the human past and experience and the appreciation of diverse cultures crucial in a smaller and smaller world. A degree in history also provides students with the skills necessary for success in a wide range of careers and professions ranging from business to law, social services, and education. These skills include training in the collection, analysis, and evaluation of information; critical thinking; clarity of expression orally and in writing; and the ability to make independent judgments. Finally, the department seeks to train majors in the specific skills and knowledge necessary for public school teaching and for graduate study in history or in professional schools.

Degree Objectives/Learning Outcomes
Students completing the baccalaureate program will:

1. Demonstrate a broad knowledge of the human past.
2. Demonstrate training in the collection, analysis and evaluation of information; critical thinking and the ability to make independent judgments; and clarity of expression orally and in writing.
3. Be prepared for positions in a variety of fields, for graduate study in history or professional schools, or for public school teaching.

Accreditation
Northwest Commission on Colleges and Universities

Department Policies

Transfer Policy
Students wishing to transfer credit toward a Bachelor of Arts in History must schedule a formal meeting with an advisor at the Wilson Advising Center.

Major Areas of Interest
(1) United States and Latin America
(2) The World

In consultation with an advisor, a history major selects an interest area from the two principal geographical areas.

Minor Areas of Interest
(1) United States and Latin America
(2) The World

In consultation with an advisor, a history major selects a minor concentration from the two principal geographical areas. With departmental approval, a student may devise a topical or methodologically defined minor.

Progression
The progress of individual students is monitored by the Wilson Advising Center.

Advisement
Incoming students must seek advising from the Wilson Advising Center on both requirements in the major and general education requirements. Every student majoring in history must keep regular appointments with his or her advisor in the Wilson Advising Center. Failure to seek academic advising may result in delays of anticipated date of graduation.
History Major (BA)

History Major- Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, History Department web page at history.unlv.edu for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-history.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Demonstrate a broad knowledge of the development of the world history from antiquity to the present.
2. Demonstrate knowledge of the two main geographical areas: 1) United States and Latin America; and 2) The World.
3. Demonstrate an awareness of the changing nature of historical interpretation and the ability to make independent judgments about conflicting historical interpretations.
4. Demonstrate training in the collection, analysis and evaluation of historical information.
5. Demonstrate training in critical thinking and the ability to construct a cogent argument on the basis of historical information.
6. Demonstrate training in clarity of expression orally and in writing.

University Graduation Requirements
- Please see Graduation Policies for complete information

History Requirements - Total: 120 Credits

(see note 1 below)

General Education Requirements - Subtotal: 36-38 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 3

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

Multicultural and International
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.
Major Requirements - BA in History - Subtotal: 60 Credits

Foreign Language/Foreign Culture Credits: 6

Humanities Credits: 6

Fine Arts Credits: 6

History Major Requirements Credits: 42

At least four courses (12 credits), as specified below.
At least one from among the following courses that are devoted substantially to the time period prior to 1800:
- HIST 105 - European Civilization to 1648
- HIST 208 - World History I
- HIST 227 - Introduction to Latin American History and Culture I

At least one from among the following courses that are devoted substantially to the time period since 1650:
- HIST 106 - European Civilization Since 1648
- HIST 209 - World History II
- HIST 228 - Introduction to Latin American History and Culture II

At least one from among the following courses which offer geographical and thematic breadth:
- HIST 101 - United States: Colonial Period to 1877
- HIST 102 - United States Since 1877
- HIST 103 - Global Problems in Historical Perspective *
- HIST 110 - History of Multiculturalism in America *
- HIST 150 - Introduction to Chinese Civilization
- HIST 151 - Introduction to Japanese Civilization
  (*=may be taken twice if two different topics.)

Complete both:
- HIST 251 - Introduction to Historical Methods

Electives - Credits: 22-24

Total Credits: 120

Notes

1. All history courses must be completed with a grade of C- or higher to be counted towards the degree program.

History Minor

Courses Include - Total Credits: 21

Six credits of 100- level courses
HIST 251 - Introduction to Historical Methods

AIS 425 - Topics in Japanese Culture
For students who have completed JPN 302 and who wish to broaden their knowledge of the Japanese language, society and culture.
Credits: 3
Prerequisites: JPN 302
May be repeated for a maximum of six credits.
Please verify that all credits will apply towards your degree.
Same as JPN 425
HIST 100 - Historical Issues and Contemporary Society
Designed to create, particularly for the non-major, an awareness of the ideas, individuals, and social forces that have shaped history. Sources include art, biography, drama, fiction, and film.
Credits: 4
Notes: Satisfies the United States and Nevada Constitutions Requirement.

HIST 101 - United States: Colonial Period to 1877
Survey of United States political, social, economic, diplomatic, and cultural developments from colonial times to 1877. Includes examination of the United States Constitution.
Credits: 3
Notes: Satisfies the United States Constitution Requirement.

HIST 102 - United States Since 1877
Survey of United States political, social, economic, diplomatic, and cultural developments from 1877 to the present. Includes examination of the Nevada Constitution.
Credits: 3
Notes: Satisfies the Nevada Constitution Requirement.

HIST 103 - Global Problems in Historical Perspective
Introduction to selected contemporary issues in the world beyond North America, understood through their historical origins and causes. For majors or non-majors seeking a greater understanding of the wider world today. Topics vary.
Credits: 3
Notes: Satisfies the Humanities and International Requirements.
May be repeated to a maximum of six credits.

HIST 105 - European Civilization to 1648
Survey of the development of Western civilization from the dawn of history to 1648.
Credits: 3

HIST 106 - European Civilization Since 1648
Survey of the development of Western civilization from 1648.
Credits: 3

HIST 110 - History of Multiculturalism in America
An introduction to the history of a variety of multicultural groups and interactions in American history. Specific topics vary with the instructor.
Credits: 3
Notes: Satisfies the Multicultural and Humanities Requirements.

HIST 150 - Introduction to Chinese Civilization
Introductory survey of the growth and development of Chinese civilization, with emphasis on philosophy, literature, the arts, and society from 2205 B.C. to the present.
Credits: 3
Notes: Satisfies the International and Humanities Requirement.

HIST 151 - Introduction to Japanese Civilization
Introductory survey of the growth and development of Japanese civilization, with emphasis on philosophy, literature, the arts, and society from 2205 B.C. to the present.
Credits: 3
Same as AIS 151

HIST 208 - World History I
A survey of the societies and cultures of Asia, Africa, the Middle East, Europe, the Americas and Oceania to 1600.
Credits: 3

HIST 209 - World History II
A review of the principal developments in world history since 1600, including scientific and technological revolutions, social revolutions, nationalism, immigration, colonialism, world wars, decolonization, modernization, democracy and dictatorships.
Credits: 3
Notes: Satisfies the Humanities and International Requirements.

**HIST 212 - History of East Asia II**
An introduction to the political, economic, social and cultural history of China, Japan and Korea from 1600 to present. No familiarity with culture or language of China, Japan or Korea is required.
Credits: 3
Notes: Satisfies Humanities Requirement.
Same as AIS 212

**HIST 217 - Nevada History**
Nevada history from early exploration to the present. Primarily for those not majoring in history.
Credits: 3
Notes: (Satisfies the Nevada Constitution Requirement.)

**HIST 227 - Introduction to Latin American History and Culture I**
Survey of the development of the Iberian states as colonizing powers, the discovery and conquest of America, the growth of political, social, and economic institutions during the Colonial Period (c. 1492 to c. 1810), as well as substantial discussion of the legacy of the Colonial Period.
Credits: 3
Same as LAS 227

**HIST 228 - Introduction to Latin American History and Culture II**
Survey of the historical development of Spanish and Portuguese America from the independence movements, c. 1810 - 1825, to the present day, including an examination of the countries' differing approaches to dealing with the social, economic, political and cultural legacies of Iberian colonialism.
Credits: 3
Notes: Satisfies the Humanities and International Requirements.
Same as LAS 228

**HIST 232 - History of Africa III**
Introduction to the history of the world's second largest and second most populated continent, which surveys major developments from the earliest pieces of the fossil record to Africa's place in the world today.
Credits: 3
Notes: Satisfies Humanities and International Requirements. Same as AAS 232.

**HIST 251 - Introduction to Historical Methods**
Introduction to the basic concepts and techniques of historical investigation and writing.
Credits: 3
Prerequisites: Three credits of history.

**HIST 252 - History and New Media**
Overview of the use of digital, interactive and computational technologies in the discipline of history, for research, teaching and public history. Discusses theoretical concepts and provides applied training in digitization, database management, multi-media, computer-assisted research and analysis, and particularly use of the Internet and world wide web.
Credits: 3

**HIST 260 - Introduction to Native American History**
(Same as AIIS 260). An examination of significant events and trends in Native American history. The course will focus on the contributions made by American Indians to the development of North American history and contemporary society.
Credits: 3
Notes: Satisfies the Multicultural and Humanities Requirements.

**HIST 279 - The News in Historical Perspective**
Current or recent public issues through examination of their historical background. Each five-week, one-credit module covers one issue. See class schedule for topic listing.
Credits: 1
May be repeated to a maximum of three credits.
HIST 301 - American Law and Disorder
Analysis and interpretation of the relationship between American law and disorder from colonial times to modern times. Topics covered include witch trials, mobs, strikes, riots, the civil rights movement, the LA riots, and youth violence. Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 302 - Topics in Public History
Topics in Public History examines the application of history in a variety of public settings such as libraries, museums, and the digital humanities. Credits: 3
Prerequisites: ENG 102 and 3 credits of HIST

HIST 304 - Topics in the History of Medicine
Topics in the History of Medicine covers such themes as the institutionalization of medicine, the history of diagnosis and disease, and public health framed within social and cultural analyses. Topics may include: Rise of the Medical Profession, Epidemics and Disease, Gender and Medicine, Ethical Dilemmas, and Current Issues in Medicine. Credits: 3
Prerequisites: C or better in ENG 102

HIST 307 - U.S. Involvement in Vietnam
Analysis of the diplomatic and military rationale for U.S. intervention in Vietnam and the course of the war at home and abroad, including the effects on U.S. foreign policy, society, and politics. Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 322 - Terrorism in the Russian Empire
Analyzes terrorist violence - its motivations, its cultural implications, and its effects on processes of political and social change - in the late Russian Empire and the early Soviet years. Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 323 - The End of Communism
Analyzes the long-term and short-term causes of communism's demise in the USSR and elsewhere. Focuses especially on connections between socialist systems, federal state structures, national aspirations, and violence. Considers recent repercussions of the demise of these states. Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 330 - Great Cities in History
Study of a selected city or cities to be determined by the instructor. Credits: 3
Prerequisites: Minimum C or better in ENG 102
May be repeated to a maximum of six credits.

HIST 333 - Comparative Slavery
Compares the impact of African slavery in Europe and in various European colonies in the Americas. Considers the range of effects of the institution of slavery, as well as of slaves' knowledge, skills, and labor, on the social, cultural, and economic development of these areas. Credits: 3
Prerequisites: 3 credits of History or 3 credits of Social Sciences.

HIST 347 - History of Mexico
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. Credits: 3
Prerequisites: ENG 102
Notes: Satisfies the Humanities and International Requirements.
Same as LAS 347

HIST 348 - World War I: Origins, Experience, Memory
World War I as a central set of formative moments in the political, economic, social, and cultural
history of twentieth-century Europe. Explores diplomacy, military and home fronts and the organization and articulation of memory. Introduces students to the complexities of historical process and war as something more profound than a set of military engagements.

Credits: 3

HIST 349 - From Asia to America
Comparatively explores the lives of Chinese, Japanese, Korean, Filipino, Southeast Asian, and Indian immigrants in the Hawaiian Islands and the United States. Covers the period from the seventeenth century until the present, with special emphasis on multicultural diversity in the twenty-first century.

Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 350 - History of Modern Africa
Concentrates on the distinct social, cultural, intellectual, and economic changes in sub-Saharan Africa during the colonial and post-independence periods. Concerned primarily with internal transformations in local societies and how Africans perceived and experienced these changes. Special attention given to the slave trade, the development of interior states, European partition, the colonial period, and the rise of independent Africa.

Credits: 3
Prerequisites: ENG 102.
Same as AAS 350

HIST 362 - Topics in History of France and the French Empire Since 1815
History of France and the French Empire from fall of Napoleon to present. Topics include the revolutionary tradition, urbanization, class formation, social and political status of women, changing ideals of masculinity and femininity, industrialization and economic dislocation in the countryside, fascism, role of intellectuals, imperialism and decolonization, immigration and changing ideals of national identity.

Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Satisfies the Humanities and International Requirements.

HIST 367 - The Holocaust in Its European Setting
Analysis and interpretation of the Nazi Holocaust as an event in European history. Topics include the definition and nature of genocide, racism, and National Socialism.

Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 368 - History of Casinos
Examines the historical development of casino gaming from the Renaissance to the present.

Credits: 3
Prerequisites: ENG 102

HIST 375 - Topics in Sports History
Examines selected topics in American and/or international sport history in depth. Topics may include sport and race, sport and gender, sport and culture, and histories of specific sports (soccer, football, baseball, cricket, etc.).

Credits: 3
Prerequisites: ENG 102.
May be repeated to a maximum of six credits.

HIST 386A - Military History of the United States to 1900
Development of the U.S. military establishment and its employment in selected campaigns and battles from the colonial period to 1900, studied in the context of general American history.

Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 386B - Military History of the United States Since 1900
Continued development of the U.S. military establishment and its employment in selected campaigns and battles since 1900. Studied in the context of general American history.
Credits: 3
Prerequisites: ENG 101 and ENG 102.

HIST 388 - Great Personalities in History
Examines the lives of great historical figures to gain insight into their times. Topics vary.
Credits: 3
May be repeated to a maximum of six credits.

HIST 401 - American Constitutional and Legal History
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: (HIST 401 satisfies the U.S. Constitution Requirement; HIST 402 satisfies the Nevada Constitution Requirement.)

HIST 402 - American Constitutional and Legal History
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: (HIST 401 satisfies the U.S. Constitution Requirement; HIST 402 satisfies the Nevada Constitution Requirement.)

HIST 404A - 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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 604A. Credit at the 600-level requires additional work.

HIST 404B - American Social History, 1865-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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 604B. Credit at the 600-level requires additional work.

HIST 405 - 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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 605. Credit at the 600-level requires additional work.

HIST 406A - 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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 606A. Credit at the 600-level requires additional work.

HIST 406B - 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
HIST 407A - 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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 607A. Credit at the 600-level requires additional work.

HIST 407B - 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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 607B. Credit at the 600-level requires additional work.

HIST 410A - American Cultural and Intellectual History I
Developments in cultural, intellectual, and religious history from European contact to the Civil War.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 610A. Credit at the 600-level requires additional work.

HIST 410B - American Cultural and Intellectual History II
Developments in cultural, intellectual, and religious history from the Civil War to the present.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 610B. Credit at the 600-level requires additional work.

HIST 411 - United States: Colonial Period
Origins of the North American colonies, development of colonial society, culture, and institutions; background factors involved in the American Revolution.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is cross-listed with HIST 611. Credit at the 600-level requires additional work.

HIST 412 - 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.
Credits: 3
Prerequisites: Six credits of history.
Notes: (Satisfies the United States Constitution Requirement.) This course is cross-listed with HIST 612. Credit at the 600-level requires additional work.

HIST 414A - United States: National Period, 1815-1860
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 614A. Credit at the 600-level requires additional work.

HIST 414B - United States: Civil War and Reconstruction, 1860-1877
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 614B. Credit at the 600-level requires additional work.
HIST 415A - United States: The Gilded Age, 1877-1900
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 615A. Credit at the 600-level requires additional work.

HIST 415B - United States: The Progressive Period, 1900-1920
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 615B. Credit at the 600-level requires additional work.

HIST 416A - Recent America: Era of Franklin D. Roosevelt, 1920-1945
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 616A. Credit at the 600-level requires additional work.

HIST 416B - Contemporary America: The U.S. Since 1945
Cold War abroad and readjustments bringing affluence 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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 616B. Credit at the 600-level requires additional work.

HIST 417A - Nevada and the Far West
Study of the far western region, with emphasis on Nevada history. Includes research projects.
Credits: 3
Prerequisites: Six credits of history.
Notes: (Satisfies the Nevada Constitution Requirement.) This course is crosslisted with HIST 617A. Credit at the 600-level requires additional work.

HIST 419A - Britain to 1750
Analysis and interpretation of the economy, society, politics and culture of the British isles from earliest settlement to 1750.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 619A. Credit at the 600-level requires additional work.

HIST 419B - Britain from 1750
Analysis and interpretation of the economy, society, politics and culture of the British isles and British empire from 1750 to present.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Humanities and International Requirements. This course is crosslisted with HIST 619B. Credit at the 600-level requires additional work.
HIST 420 - Revolution in Central Europe: 1914 – Present
Topics on the political and social change in Central Europe from the outbreak of World War I to the present.
Credits: 3
Prerequisites: Six credits of history.
Notes: Topics vary.

HIST 421 - History of Russia to 1825
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 621. Credit at the 600-level requires additional work.

HIST 422 - History of Russia Since 1825
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 Gorbachev, and the dissolution of the USSR.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Humanities and International Requirements. This course is crosslisted with HIST 622. Credit at the 600-level requires additional work.

HIST 423A - History of Germany to 1848
Analysis and interpretation of the institutional, social, economic, political and cultural development of the German states.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 623A. Credit at the 600-level requires additional work.

HIST 423B - History of Germany Since 1848
Analysis and interpretation of the institutional, social, economic, political and cultural development of the Germany to the present.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Humanities and International Requirements. This course is crosslisted with HIST 623B. Credit at the 600-level requires additional work.

HIST 424 - Role of Religion in American Culture
Study of the relationship between religion and secular culture in the American experience from the colonial era to the present.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 624. Credit at the 600-level requires additional work.

HIST 425 - History of Southern Nevada
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 625. Credit at the 600-level requires additional work.

HIST 426 - The American West Through Film
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.
Credits: 3
Notes: This course is crosslisted with HIST 626. Credit at the 600-level requires additional work.

HIST 428 - Role of Business in United States History
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.

Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 628. Credit at the 600-level requires additional work.

HIST 429 - History of American Labor, 1607-Present
Analyzes 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.

Credits: 3
Prerequisites: Six credits of history.

HIST 432A - History of American Women to 1870
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.

Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Multicultural and Humanities Requirements. Same as AAS 432

HIST 432B - History of American Women, 1870 to the Present
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.

Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as WMST 432B This course is crosslisted with WMST 632B. Credit at the 600-level requires additional work.

HIST 433 - African-American History
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.

Credits: 3
Notes: Satisfies the Multicultural and Humanities Requirements. Same as WMST 433 This course is crosslisted with WMST 633. Credit at the 600-level requires additional work.

HIST 433B - African-American History to 1877
An examination of African-American history to 1877 that considers roles of free and enslaved blacks in the shaping 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.

Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 633B. Credit at the 600-level requires additional work.

Same as AAS 433B
HIST 433C - African-American History since 1877
Examination of the emergence of African-Americans from the aftermath of the Civil War to the 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.
Credits: 3
Prerequisites: Six credits of history.
Same as AAS 433C Credit at the graduate-level requires additional work; this course is crosslisted with HIST 633C

HIST 434 - Role of Cities in American History
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 634. Credit at the 600-level requires additional work.

HIST 434A - European Urban History
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 634A. Credit at the 600-level requires additional work.

HIST 435A - Early Modern Intellectual History
Analysis and interpretation of European attitudes and ideas from the Renaissance to the Enlightenment, 1450-1775, including humanism, republicanism, Protestantism, science, liberalism, and early economic thinking.
Credits: 3
Prerequisites: Six credits of history.

HIST 435B - Modern Intellectual History
Analysis and interpretation of European attitudes and ideas since the Enlightenment, 1775-present, including Idealism, Marxism, cultural individualism, psychoanalysis, existentialism, and structuralism.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 635B. Credit at the 600-level requires additional work.

HIST 435C - Topics in European Cultural and Intellectual History
In-depth study of specific aspects of early modern and modern European cultural and intellectual history.
Credits: 3
Prerequisites: Six credits in History.
Notes: This course is crosslisted with HIST 635C. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

HIST 436 - Nazi Holocaust from the American Perspective
Genocidal aspects of the Nazi Era in Germany. Special emphases on why Americans have become so "Holocaust conscious," and on the impact of the Holocaust on international Jewry.
Credits: 3
Notes: Satisfies the Humanities and International Requirements. This course is crosslisted with HIST 636. Credit at the 600-level requires additional work.

HIST 437 - Family History
Study of how world wars, the Great Depression, and other historical events have affected American families and communities in the twentieth century.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 637. Credit at the 600-level requires additional work.
HIST 438A - American Indian History to 1851
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Multicultural and Humanities Requirements. Same as AIIS 438A. This course is crosslisted with HIST 638A. Credit at the 600-level requires additional work.
Same as AIIS 438A Credit at the graduate-level requires additional work; this course is crosslisted with HIST 638A

HIST 438B - American Indian History Since 1851
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).
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as AIIS 438B. This course is crosslisted with HIST 638B. Credit at the 600-level requires additional work.
Same as AIIS 438B Credit at the graduate-level requires additional work; this course is crosslisted with HIST 638B

HIST 438C - Topics in American Indian History
In-depth study of specific aspects of American Indian History.
Credits: 3
Prerequisites: Six credits of History.
May be repeated to a maximum of six credits.
Same as AIIS 438C Credit at the graduate-level requires additional work; this course is crosslisted with HIST 638C

HIST 440 - Regions in American Indian History
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Multicultural and Humanities Requirements. Same as AIIS 440 This course is crosslisted with HIST 640. Credit at the 600-level requires additional work.
Same as AIIS 440 Credit at the graduate-level requires additional work; this course is crosslisted with HIST 640

HIST 441 - American Environmental History
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.
Credits: 3
Notes: This course is crosslisted with HIST 641. Credit at the 600-level requires additional work.

HIST 443 - Comparative Environmental History
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.
Credits: 3

HIST 443A - Historic Preservation
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.
Credits: 3
Prerequisites: 6 credits of history.
Notes: This course is crosslisted with HIST 643A. Credit at the 600-level requires additional work.
HIST 444 - Latinos in the American West
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.
Credits: 3
Prerequisites: Six credits of history.
Same as LAS 444 Credit at the graduate-level requires additional work; this course is crosslisted with HIST 644

HIST 445 - Cultural History of Modern Russia
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 645.
Credit at the 600-level requires additional work.

HIST 446 - History of the Russian Film
Soviet cinema from the revolutionary films and path breaking 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.
Credits: 3
Notes: Same as FILM 446.

HIST 447 - Revolutionary Russia, 1905-1921
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 647.
Credit at the 600-level requires additional work.

HIST 448 - Asian American History
Examines the Asian American experience from the nineteenth century until the present with an emphasis on activities in the American West.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Multicultural and Humanities Requirements.

HIST 449A - History of Japan to 1800
Analysis and interpretation of Japanese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 649A.
Credit at the 600-level requires additional work.
Same as AIS 449A

HIST 449B - History of Japan Since 1800
Analysis and interpretation of Japanese history since 1800, Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 649B.
Credit at the 600-level requires additional work.
Same as AIS 449B

HIST 449C - Topics in Japanese History
In-depth study of specific aspects of Japanese history.
Credits: 3
Prerequisites: Six credits of history.
May be repeated to a maximum of six credits.
Same as AIS 449C Credit at the graduate-level
HIST 451 - Capstone Research Seminar
Directed research and writing. Introduction to basic historical writings and bibliography on a selected theme, followed by guided research leading to a substantial paper.
Credits: 3
Prerequisites: HIST 251; nine credits of history.
May be repeated to a maximum of six credits.

HIST 452A - Popular Culture in Nineteenth-Century America
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 652A.
Credit at the 600-level requires additional work. Same as AIS 452A

HIST 452B - Popular Culture in Twentieth-Century America
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 652B.
Credit at the 600-level requires additional work.

HIST 453 - Women in Politics
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as PSC 401J & WMST 401J.

HIST 455A - History of China to 1800
Analysis and interpretation of Chinese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 655A.
Credit at the 600-level requires additional work. Same as AIS 455A

HIST 455B - History of China Since 1800
Analysis and interpretation of Chinese history since 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 655B.
Credit at the 600-level requires additional work. Same as AIS 455B

HIST 455C - Topics in Modern China
In-depth study of aspects of modern China. Each year a different theme, such as "Reform, Rebellion, and Revolution" or "Twentieth-Century China."
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 655C.
Credit at the 600-level requires additional work.
May be repeated to a maximum of six credits with consent of instructor. Same as AIS 455C

HIST 456 - Topics in Ancient History
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 relation between literary production and culture. Develops skills of analysis, interpretation, and exposition of
significant historical fields.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 656.
Credit at the 600-level requires additional work.
May be repeated to a maximum of six credits.

**HIST 457 - Ancient Greek Civilization**
History of Greece and Hellenic civilization from the end of prehistoric times until the Roman conquest.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 657.
Credit at the 600-level requires additional work.

**HIST 458 - Roman Civilization**
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 658.
Credit at the 600-level requires additional work.

**HIST 459 - The Middle Ages**
Examines the society and culture of medieval Europe from the breakdown of the Roman Empire to the beginnings of the Renaissance. Topics include the emergence of feudal and Church government, the Crusaders, technological development, medieval gender roles, art and architecture, social structure, and the impact of the Black Death.
Credits: 3
Prerequisites: Six credits of history.

**HIST 459A - Topics in Medieval History**
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 659A.
Credit at the 600-level requires additional work.
This course may be repeated to a maximum of six credits.

**HIST 460A - The Renaissance**
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 660A.
Credit at the 600-level requires additional work.

**HIST 460B - The Reformation**
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 660B.
Credit at the 600-level requires additional work.

**HIST 461 - Europe in the Eighteenth Century**
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.
Credits: 3
Prerequisites: Six credit hours of history.
Notes: This course is crosslisted with HIST 661.
Credit at the 600-level requires additional work.

**HIST 461B - Early Modern Europe: 1550-1789**
Development of the economic, political, social, and cultural patterns of Europe during the Age of
Reason and the Age of Enlightenment.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 661B.
Credit at the 600-level requires additional work.

HIST 462 - The French Revolution and Napoleon
Study of France during the last stages of the old regime; the revolution; and the rise and fall of Napoleon Bonaparte.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 662.
Credit at the 600-level requires additional work.

HIST 463 - Europe: 1815-1914
Detailed study of the development of the economic, political, social, and cultural patterns of Europe from Waterloo to the outbreak of World War I.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 663.
Credit at the 600-level requires additional work.

HIST 464 - Europe: 1914 - Present
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the International and Humanities Requirement. This course is crosslisted with HIST 664. Credit at the 600-level requires additional work.

HIST 464A - Topics in Modern European History
Examines selected topics in modern European history in depth and detail.
Credits: 3
Prerequisites: Six credits of history.

HIST 466 - European Diplomatic History, 1815 - Present
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 666.
Credit at the 600-level requires additional work.

HIST 468 - History of Science
Study of the major scientific and technological advances since medieval times and their impact on society. Presented in a non-technical manner.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 668.
Credit at the 600-level requires additional work.

HIST 471 - Revolution and Reaction in Contemporary Latin America
Study of major political movements, leaders, and trends in Latin America from the Cuban Revolution to the present day.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the International and Humanities Requirement. Same as PSC 407N. This course is crosslisted with HIST 671. Credit at the 600-level requires additional work.

HIST 472 - History of Brazil
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.
Credits: 3
Prerequisites: Six credits of history.
HIST 473 - History of the Andean Region
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Humanities and International Requirements.
Same as LAS 473 Credit at the graduate-level requires additional work; this course is crosslisted with HIST 673

HIST 474 - Latin American Ethnic Studies
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.
Credits: 3
Prerequisites: Six credits of history.
Same as LAS 474

HIST 475 - Modern Latin American Film
Cinematic treatments of modern Latin American socio-historical issues. Topics include industrialization, dictatorship and repression, redemocratization, 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.
Credits: 3
Prerequisites: Junior or senior standing, and consent of instructor.
Notes: Same as FILM 475.

HIST 476 - The Mexican Revolution
Study of the origins, major events and personalities, and aftermath of the Mexican Revolution of 1910, tracing Mexico's political development to modern times.
Credits: 3
Prerequisites: PSC 101, six credits of history.
Notes: Same as PSC 407M. This course is crosslisted with HIST 676. Credit at the 600-level requires additional work.

HIST 477B - Topics in African History
Topical and general courses on Africa, including the continent and diaspora, regions, peoples, and eras. May be repeated up to 6 credits.
Credits: 3
Prerequisites: Six credits of history.
May be repeated for a maximum of 6 credits.
Course may be repeated with different topics.
Credit at the graduate-level requires additional work; this course is crosslisted with HIST 677B

HIST 478A - Islamic and Middle Eastern History to 1750
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 678A.
Credit at the graduate-level requires additional work.

HIST 478B - Islamic and Middle Eastern History Since 1750
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 678B.
Credit at the graduate-level requires additional work.

HIST 479 - History of the British Empire
Explores the history of the British Empire from its beginnings 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. Credits: 3
Prerequisites: Six credits of History.
Notes: This course is crosslisted with HIST 679. Credit at the 600-level requires additional work.

HIST 479A - West Africa and the Making of the Atlantic World
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 679A. Credit at the 600-level requires additional work.
Same as AAS 479A

HIST 483A - Urban Destructio and Reconstruction
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 683A. Credit at the 600-level requires additional work.

HIST 485 - Oral History
Focuses on the techniques of oral history and integration of the material into a historical paper. Topics vary.
Credits: 3
Prerequisites: Six credits of history.
May be repeated to a maximum of six credits.

HIST 486 - Study in History Abroad
Part of UNLV’s International Studies Program. Topics vary.
Credits: 1-3
Prerequisites: Approval of program Director. May be repeated to a maximum of twelve credits.

HIST 487R - Topics in American Studies
Interdisciplinary analysis of selected topics in American history, literature, art, science and material culture. Topics vary from semester to semester.
Credits: 3
Prerequisites: Six credits in History.
Notes: This course is crosslisted with HIST 687. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

HIST 489 - Comparative History
Study of a historical problem by examining its development in different countries and epochs. Possible topics include slavery, industrialization, and ideology.
Credits: 3
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 689.

HIST 491A - Women in the Ancient World
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as WMST 491A.

HIST 491B - Women in Medieval Culture and Society
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as WMST 491B. This course is
crosslisted with HIST 691B. Credit at the 600-level requires additional work.

**HIST 492A - Women in Early Modern Europe**
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as WMST 492A. This course is crosslisted with HIST 692A. Credit at the 600-level requires additional work.

**HIST 492B - Women in Modern European History**
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Humanities and International Requirements. Same as WMST 492B.

**HIST 495 - Topics in Gender and History**
Study of a selected topic concerning gender and history.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as WMST 495.
May be repeated to a maximum of six credits.

**HIST 496 - Philosophy of History**
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.
Credits: 3
Prerequisites: PHIL 101, PHIL 102, or PHIL 114, six credits of history.
Notes: Same as PHIL 437. This course is crosslisted with HIST 696. Credit at the 600-level requires additional work.

**HIST 497 - Independent Study**
Supervised readings on special topics selected in consultation with a history instructor.
Credits: 1-3
Prerequisites: Six credits of history.
May be repeated to a maximum of six credits.

**HIST 498 - Advanced Historical Studies**
Study of the historical origins and aspects of selected contemporary issues.
Credits: 1-4
Prerequisites: Six credits of history.
Notes: This course is crosslisted with HIST 698. Credit at the 600-level requires additional work. May be repeated to a maximum of eight credits.
Interdisciplinary Gender and Ethnic Studies

Purpose and Focus
The College of Liberal Arts offers a number of interdisciplinary programs that enable students to take courses in several departments and colleges on campus. Students combine their course work in exciting and innovative ways beyond the existing Bachelor of Arts and Bachelor of Science degrees in order to meet their career goals and to reflect their personal interests. There are Interdisciplinary B.A. degree programs in the following fields: Afro-American Studies, Asian Studies, Latin American Studies, Multidisciplinary Studies, Social Science Studies and Gender and Sexuality Studies.

Degree Objectives/Learning Outcomes

Afro-American Studies:
The Afro-American Studies Program is offered under the auspices of the Interdisciplinary Studies unit of the College of Liberal Arts. Students may major or minor in Afro-American Studies. The program in Afro-American Studies is designed to provide students with the critical tools required, and to expose them to the historical knowledge and current research necessary, for an informed understanding of the Afro-American experience today. The program is built around a core of courses that systematically document critical aspects of the Afro-American experience from its antecedents in antiquity to the prominent issues of the present day. Engaging both past and contemporary aspects of this experience provides students access to materials and events that have historically not been given adequate treatment, and allows students to contextualize current issues relating to Afro-Americans in an academically critical way. The program is also designed to effectively prepare students who desire to continue on to graduate work in Afro-American Studies.

Asian Studies:
The Asian Studies program focuses on the distinctive cultural, political, linguistic, literary, artistic, and historical aspects of Asian and Asian-American life. Students are trained in diverse areas of Asian civilization, especially the traditions and contemporary societies of China, India, Japan, Sri Lanka, Pakistan, Bangladesh, Nepal, Thailand, the Philippines, and other Asian countries. The degree prepares students for careers in government and teaching, as well as in areas of international business, consulting, and media.

Latin American Studies:
Latin American Studies is a multidisciplinary major that covers the important region of Mexico, Central and South America, and the Caribbean. Participating faculty specialize in political economy, border studies, anthropological approaches, and exile studies as well as Latin American history, literature, and film. Course work in the program offers students an opportunity to acquire a comprehensive knowledge of the history, politics, economics, culture, and literature of Latin American and the Caribbean. Graduates from the program receive theoretical and practical training to pursue careers in multinational companies that operate in Latin America. Latin American Studies majors are also well suited to work in the federal government, in various international organizations (such as the World Bank, the Inter-American Development Bank, and other organizations), or to teach in primary and secondary schools.

Multidisciplinary Studies:
The degree program in Multidisciplinary Studies is designed for the student who has clear interests and objectives that overlap colleges and/or departments, and whose objectives cannot reasonably be met through existing majors and minors. The program offers students the opportunity to focus and harness their energies by providing plans of study tailored to their individual interests through the incorporation of courses or sets of courses offered in departments and colleges.
across campus. As such, the program emphasizes flexibility and combines specialized knowledge from individual disciplines as a means of approaching and analyzing problems from divergent and multidisciplinary perspectives. Students participate in a capstone during their final semester, demonstrating the incorporation of their areas of study into a project, presentation, and paper.

Social Science Studies:
Students who major in Social Science Studies will understand how various social science disciplines structure and advance knowledge, raise and answer analytical questions, and deal with competing theories within specific fields. Emphasis is placed on developing critical awareness of the different methodologies applied to questions about society, social interaction, and human subjectivity. Students work closely with their advisers to plan a program that satisfies the required competencies in a chosen area of focus and in the social science disciplines. Students participate in a capstone during their final semester, demonstrating the incorporation of their chosen disciplines into a project, presentation, and paper.

Gender and Sexuality Studies:
Gender and Sexuality Studies is an interdisciplinary program that explores how gender intersects with race, ethnicity, class, sexuality, and nationality to shape both social institutions and everyday lived experiences. Our curriculum consists of a core set of courses and a variety of elective courses that can be selected from across the humanities and social sciences. The Program offers a major and a minor, and equips students to enter a range of careers in today’s diverse and multicultural workplace. Recent course offerings include Gender and Popular Culture, Chicana Feminism, and Women, Science and Technology, among other up-to-date and critical approaches to understanding gender.

For degrees in Classical Studies, see Department of World Languages and Cultures.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
Interdisciplinary Studies (120 credits)

Degree Programs
Afro-American Studies
Asian Studies
Latin American Studies
Multidisciplinary Studies
Social Science Studies
Gender and Sexuality Studies

Advisement
Advising is provided by the Wilson Advising Center and by each Program Director of the Interdisciplinary, Gender, and Ethnic Studies (Afro-American Studies, Asian studies, Latin American Studies, Multidisciplinary Studies, Social Science Studies and Gender and Sexuality).

African American and African Diaspora Studies

African American and African Diaspora Studies - Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at www.unlv.edu/interdisciplinary/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-afro-american-studies.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.
Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Through interdisciplinary study, develop and display university level critical thinking, research, and writing skills, especially as it pertains to Africa, African America, and the larger African Diaspora.
2. Identify and explain key political, cultural, and historical moments, forces, and agents that have shaped Africa, African America, and the larger African Diaspora.
3. Identify and explain major literary and/or artistic movements, their impacts, goals, and prominent figures that have shaped Africa, African America, and the larger African Diaspora.
4. Develop broad knowledge about global and local Black thought at the intersections of race, gender, sexuality, class, and other identity markers.
5. Apply the methods and analytical approaches of the humanities, social sciences, and/or the arts to the study of Africa, African America, and the larger African Diaspora.
6. Identify and relate historical and contemporary issues, major debates, and key conversations in and about communities throughout Africa, African America, and the larger African Diaspora.
7. Understand the historical and cultural importance of activism, especially in relationship to the creation of the field of study.

University Graduation Requirements
- Please see Graduation Policies for complete information

First-Year Seminar - Credits: 3
English Composition - Credits: 6
- ENG 101 - Composition I and
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3
Constitutions - Credits: 4
Mathematics - Credits: 3

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.
- **Humanities and Fine Arts: 9 Credits**
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits
- **Social Science**
  - Automatically satisfied by Major requirements
- **Life and Physical Sciences and Analytical Thinking: 9-10 credits**
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International
(see note 1)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: [http://facultysenate.unlv.edu/students](http://facultysenate.unlv.edu/students).
Major Requirements - BA in African American and African Diaspora Studies - Subtotal: 36 Credits

(see notes 2-4)

African American and African Diaspora Studies Major Requirements - Credits: 36

AAS Core - Credits: 12

- AAS 101 - African American Survey
- AAS 330 - From Civil Rights to Black Power and Beyond
- AAS 433 - Contemporary Issues in African American Studies
- IDS 495A - Interdisciplinary Studies Capstone

AAS Literature (select two courses from this list) - Credits: 6

- AAS 290 - Introduction to African-American Literature
- AAS 291 - Slave Narratives, Literature, and Imagery
- AAS 491 - Early African-American Literature
- AAS 492 - Modern African-American Literature

AAS Electives (Select six courses from the list) - Credits: 18

- AAS 105 - African American Music and Culture
- AAS 166 - Survey of African-American Dance
- AAS 232 - History of Africa III
- AAS 264 - African American Psychology
- AAS 286 - Contemporary Black Filmmakers
- AAS 288 - African Americans in Film
- AAS 289 - Film, Race, and Ethnicity
- AAS 331 - Selected Topics in African-American Film
- AAS 350 - History of Modern Africa
- AAS 405R - Africa in World Politics
- AAS 407T - The Politics of Sub-Saharan Africa
- AAS 420 - African-American Spirituality
- AAS 432 - African-American Social History
- AAS 433B - African American History to 1877
- AAS 433C - African American History since 1877
- AAS 435 - Malcolm X
- AAS 436 - Politics of Racial Ambiguity
- AAS 440 - Selected Topics in African American Studies
- AAS 479A - West Africa and the Making of the Atlantic World
- AAS 499 - Independent Research in African American Studies
- ENG 499 - Independent Study
- HIST 497 - Independent Study
- HIST 498 - Advanced Historical Studies
- MUS 134* - Jazz Appreciation
- PSC 401I - Ethnic and Minority Politics
- PSC 403Z - Special Topics in Public Policy
- PSC 480A - Independent Study and Research in Political Science
- SOC 471 - Race and Ethnic Relations in America
- THTR 428 - Black Drama and Performance
- WMST 113 - Gender, Race and Class

Other African-American Studies Requirements - 18 Credits

Social Science - Credits: 9

Fine Arts - Credits: 3

Foreign Language/Foreign Culture - Credits: 6

Electives - Credits: 28-30

Total Credits: 120

Notes

1. UNLV’s multicultural requirement is met by African-American and African Diaspora Studies majors through any of the following required courses: AAS 101, 330, or 433.

2. Not more than two of the following courses may count toward the major in African-American and African Diaspora Studies: PSC 401I, SOC 471, or WMST 113.

3. Use of the following courses for major credit requires permission of the Director of the African-American and African Diaspora Studies Program: ENG 499, HIST 497, HIST 498, PSC 403Z, or PSC 480A.

4. At least 18 credits of the required 42 upper-division credit hours (300-400 level) must be in the major.
African American and African Diaspora Studies

AAS 101 - African American Survey
Interdisciplinary study of Afro-American history, beginning in Africa and continuing to the Civil War. Relates material to the Afro-American experience today.
Credits: 3
Notes: Satisfies Multicultural and Social Science Requirement.

AAS 105 - African American Music and Culture
Introduction to African American music and its relationship to politics and society. Genre of music to be determined by instructor.
Credits: 3

AAS 166 - Survey of African-American Dance
Survey of the role of the African American in the development of dance in America. Special focus placed on the artists, their philosophies and contributions in the areas of ballet, jazz, modern, and tap.
Credits: 3
Notes: Satisfies the Multicultural and Fine Arts Requirement. Same as DAN 166.
Same as DAN 166

AAS 232 - History of Africa III
Introduction to the history of the world's second largest and second most populated continent, which surveys major developments from the earliest pieces of the fossil record to Africa's place in the world today.
Credits: 3
Notes: Satisfies Humanities Requirement or International Requirement. Same as HIST 232.

AAS 264 - African American Psychology
Examines current psychological research and literature on the cultural, societal, historical, and political influences on the psychological well-being and characteristics of African Americans.
Contextual issues include world views, values, beliefs, minority status, slavery, and oppression.
Credits: 3
Prerequisites: ENG 101
Notes: Same as PSY 264.

AAS 286 - Contemporary Black Filmmakers
Examination of contemporary black filmmakers with special emphasis on the determinants and social implications of their portrayals of Afro-American life.
Credits: 3

AAS 288 - African Americans in Film
Examination of the historical portrayal of African Americans in film with special emphasis on the determinants and social implications of those portrayals.
Credits: 3

AAS 289 - Film, Race, and Ethnicity
Cross-cultural examination of how different racial and ethnic groups have contributed to world cinema. Explores stereotypes, race relations, and the positive/negative effects they have on filmmaking and viewing.
Credits: 3

AAS 290 - Introduction to African-American Literature
Introduction to the poetry, fiction, drama, and nonfiction of African-Americans.
Credits: 3
Notes: Satisfies the Multicultural and Humanities Requirement. Same as ENG 290.
Same as ENG 290

AAS 291 - Slave Narratives, Literature, and Imagery
Interdisciplinary examination of American slavery through the narrative form, including autobiographical, literary, and cinematic sources. Includes slave narratives and novels, as well as films. Focuses on the ways American slavery
interpreted through these and other popular forms.
Credits: 3
Notes: Satisfies the Multicultural and Humanities Requirement. Same as ENG 291.
Same as ENG 291

AAS 310 - Black Women in the Americas
This course presents an interdisciplinary body of scholarship on the social, political, economic, cultural and historical contexts of Black women's lives in the United States and across the Americas, with a particular focus on Black women's roles in the development of democratic ideas.
Credits: 3
Prerequisites: AAS 101

AAS 330 - From Civil Rights to Black Power and Beyond
Interdisciplinary study of recent Afro-American history beginning with the end of the civil rights era and continuing to the present day. Includes transition from integration and civil rights to more separatist agendas, black power revolution, and present state of Afro-Americans.
Credits: 3
Prerequisites: Sophomore standing.
Notes: Satisfies Multicultural and Social Science Requirement.

AAS 331 - Selected Topics in African-American Film
Examinations of various aspects of African-American film. Topic to be determined by instructor.
Credits: 3
Prerequisites: AAS 101 or AAS 102 or ANTH 101.
May be repeated to a maximum of six credits.

AAS 350 - History of Modern Africa
Concentrates on the distinct social, cultural, intellectual, political and economic changes in sub-Saharan Africa during the colonial and post-independence periods. Concerned primarily with internal transformations in local societies and how Africans perceived and experienced these changes. Special attention given to the slave trade, the development of interior states, European partition, the colonial period, and the rise of independent Africa.
Credits: 3
Prerequisites: AAS 101
Same as HIST 350

AAS 375 - Black Cultural Studies: Issues in Black Popular Culture
Students will analyze blackness in media and culture, and become versed in Black cultural criticism. Special attention will be paid to the cultural products and processes performed by, for, or about Black Americans from the post-civil rights generation in order to discuss commodified blackness under late capitalism and new racism.
Credits: 3
Prerequisites: AAS 101

AAS 405R - Africa in World Politics
Examines Africa's place in world politics. Relationships between African countries and international organizations and countries of other world regions as well as relationships among African countries. Explores changing nature of Africa's state system and challenges confronting this system.
Credits: 3
Prerequisites: PSC 231.
Notes: Same as PSC 405R. Satisfies International and Social Science Requirement.

AAS 407T - The Politics of Sub-Saharan Africa
Explores the nature of political development in the states of sub-Saharan Africa. Examines historical, economic and social forces that have shaped political change and conflict in Africa. Special attention to democratization process in Africa.
Credits: 3
Prerequisites: PSC 211.
Notes: Same as PSC 407T.

AAS 420 - African-American Spirituality
Introduction to the study of African American religious and spiritual traditions, exploring the historical, cultural, and psychological realities,
which have shaped the distinctive African-American religious traditions.
Credits: 3
Prerequisites: AAS 101 or AAS 102 or ANTH 101.

**AAS 432 - African-American Social History**
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, the family, slavery, urban life, education, labor, culture, and politics.
Credits: 3
Prerequisites: AAS 101 or AAS 102 or ANTH 101.
Notes: Satisfies Multicultural and Humanities Requirements. Same as HIST 433.

**AAS 433 - Contemporary Issues in African American Studies**
Examination of current issues in African American Studies, focusing on recent scholarship and events. Topics may include, but are not limited to, affirmative action, Afrocentricity, mainstream consumption of African American culture, relation of African Americans to Africa, and problem of continued African American success in the fields of sports and entertainment.
Credits: 3
Prerequisites: AAS 101
Notes: Satisfies the Multicultural Requirement.
Credit at the graduate-level requires additional work; this course is crosslisted with AAS 633

**AAS 433B - African American History to 1877**
An examination of African American history to 1877 that considers roles of free and enslaved blacks in the shaping 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.
Credits: 3
Prerequisites: AAS 101
Same as HIST 433B

**AAS 433C - African American History since 1877**
Examination of the emergence of African Americans from the aftermath of the Civil War to the 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.
Credits: 3
Prerequisites: AAS 101
Same as HIST 433C

**AAS 435 - Malcolm X**
Intensive study of the life and work of Malcolm X. Delves below the surface of today's commercialization and iconography of Malcolm X to arrive at a better understanding of the man, his ideas, and his times.
Credits: 3
Prerequisites: AAS 101 or ANTH 101.
Notes: Satisfies the Multicultural and Social Science Requirement.
Credit at the graduate-level requires additional work; this course is crosslisted with AAS 635

**AAS 436 - Politics of Racial Ambiguity**
Interdisciplinary investigation of contemporary American black/white multiracial identities, including analyses and assessments of the multiracial identity movement in the United States.
Credits: 3
Prerequisites: AAS 101 or ANTH 101.
Notes: Satisfies the Multicultural and Social Science Requirement.
Credit at the graduate-level requires additional work; this course is crosslisted with AAS 636

**AAS 440 - Selected Topics in African American Studies**
Topic to be selected by instructor. Focuses on student needs.
Credits: 3
Prerequisites: AAS 101 or AAS 330.
May be repeated for a maximum of 6 credits.
Please verify that all credits will apply towards your degree.
AAS 479A - West Africa and the Making of the Atlantic World
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.
Credits: 3
Prerequisites: AAS 101
Same as HIST 479A

AAS 491 - Early African-American Literature
Study of the early African-American literature, with emphasis on historical development of the African-American tradition in creative and critical writing.
Credits: 3
Prerequisites: ENG 102.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as ENG 495A.
Same as ENG 495A

AAS 492 - Modern African-American Literature
Study of recent and contemporary works of African-American literature.
Credits: 3
Prerequisites: ENG 102.
Notes: Satisfies the Multicultural and Humanities Requirement. Same as ENG 495B.
Same as ENG 495B

AAS 499 - Independent Research in African American Studies
Research or reading to be carried out under the supervision of the instructor. Designed to give the student the opportunity to examine in-depth topics relating to African American Studies.
Credits: 3
Prerequisites: AAS 433.
May be repeated to a maximum of six credits.
Please verify that all credits will apply towards your degree.

Asian and Asian American Studies Major (BA)

Asian Studies Major- Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at www.unlv.edu/interdisciplinary/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-asian-studies.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Objectives
1. Acquire knowledge of the disciplines of Asian Studies and Asian American Studies.
2. Demonstrate awareness of the wide range of Asian, Asian American, and Pacific Islander cultures and communities
3. Recognize the historical and contemporary significance of Asia and the Pacific in world politics
4. Demonstrate knowledge of the dynamic traditions and practices of one or more Asian, Asian American, and/or Pacific Islander groups
5. Describe and analyze historical sources, literary texts, and popular and material culture of Asia, the Pacific, and Asian America.
6. Demonstrate the ability to recognize and understand the complex political and economic relationships within Asia and the Pacific and the United States, as well as between other regions in an increasingly globalized world

University Graduation Requirements
• Please see Graduation Policies for complete information
Asian Studies
The Asian and Asian American Studies program focuses on the dynamic social, cultural, political, linguistic, literary, artistic, and historical aspects of Asian and Asian American life. The program's transnational emphasis and research-intensive curriculum trains students in diverse areas of Asian, Pacific Islander, and Asian American communities, especially the historical experiences and contemporary practices and lifeways of Chinese, Filipino, Indian, Japanese, Korean, Pakistani, Sri Lankan, Thai, Vietnamese, indigenous Hawaiian, and other Asian/Pacific Islanders. The degree prepares students for careers in government and teaching, as well as in areas of international business, law, consulting, tourism, and media.

Asian Studies Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal 37-41 credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: 3

Distribution Requirements - Credits:18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- Social Science
  - Automatically satisfied by Major requirements

- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one with a lab
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Degree Requirements - BA in Art - Asian Studies - Subtotal: 51 Credits

Additional Major Requirements - Credits: 18

- Foreign Language/Foreign Culture - Credits: 6
- Social Science from three different areas - Credits: 9
- Fine Arts - Credits: 3

Asian and Asian American Studies Major Requirements - Credits: 33

The following courses have been approved to fulfill the AIS course requirements for either a Bachelor of Arts in Asian and Asian American Studies or a Minor in Asian and Asian American Studies. Students must complete at least 18 credit hours in upper-division (300 or above) courses for the AIS major.
-Required core courses: 12 credits

AIS 101 - Introduction to Asian Studies - Credits: 3

AIS 102 - Introduction to Asian American Studies - Credits: 3

IDS 240 - Interdisciplinary Research Methods (or other approved methods course) - Credits: 3

IDS 495A - Interdisciplinary Studies Capstone - Credits: 3

Asian and Asian American Studies Electives: 21 credits (18 credits must be 300 level or above)

Note: Students must complete 15 credits in one group (which will be their "concentration") and at least 6 credits in the other group.

Group A: Asian Studies
Group B: Asian American Studies

Group A: Asian Studies

- AIS 124 - Philosophical Traditions of Asia
- AIS 151 - Introduction to Japanese Civilization
- AIS 201 - The History and Cultures of India
- AIS 212 - History of East Asia II
- AIS 225 - Introduction to Indian Philosophy
- AIS 301 - Selected Topics in Asian Studies
- AIS 306 - Contemporary Chinese Society
- AIS 323 - Chinese Popular Culture
- AIS 331 - Chinese Literature in Translation
- AIS 407B - Political Systems of East Asia
- AIS 425 - Topics in Japanese Culture
- AIS 443 - Modern Chinese Culture through Film
- AIS 451 - Explorations in South Asian Religions
- AIS 449A - History of Japan to 1800
- AIS 449B - History of Japan since 1800
- AIS 449C - Topics in Japanese History
- AIS 455A - History of China to 1800
- AIS 455B - History of China since 1800
- AIS 455C - Topics in Modern China
- AIS 485A - Asian Literature
- AIS 499 - Independent Study
- ANTH 411 - Buddhism and Culture
- ART 480* - Art of China
- ART 481* - Art of Japan
- ART 495 - Special Topics in Art History
- CHI 105 - Chinese Business Culture
- CHI 113 - Elementary Chinese I
- CHI 114 - Elementary Chinese II
- CHI 213 - Intermediate Chinese I
- CHI 214 - Intermediate Chinese II
- CHI 301 - Third-Year Chinese: Conversation and Composition
- CHI 302 - Third-Year Chinese: Grammar and Composition
- CHI 322 - Modern Chinese Literature in Translation
- CHI 350 - Topics in Chinese Literature
- ENG 477A - Film and Literature
- HIST 150 - Introduction to Chinese Civilization
- JPN 113 - Elementary Japanese I
- JPN 114 - Elementary Japanese II
- JPN 213 - Intermediate Japanese I
- JPN 214 - Intermediate Japanese II
- JPN 301 - Third-Year Japanese I
- JPN 302 - Third-Year Japanese II
- JPN 401 - Advanced Japanese Composition I
- JPN 416 - Japanese for Business I
- JPN 417 - Japanese for Business II
- PHIL 117 - Indian Philosophy of Mind and Mental Health
- PHIL 352 - Special Topics
- PHIL 452 - Aesthetics
- PHIL 467 - Indian Philosophy
- PHIL 468 - Chinese and Japanese Philosophy
- PHIL 469 - Gandhian Welfare Philosophy and Culture
- PHIL 472 - Selected Topics in Religion
- PSC 405L - East Asia in World Politics
- PSC 405M - The Pacific Rim and World Politics
- PSC 407O - Islamic Politics
- SOC 410 - Sociology of Aging
- SOC 466 - Sociology of Medicine

Group B: Asian American Studies

- AIS 301 - Selected Topics in Asian Studies
- AIS 485A - Asian Literature
- AIS 499 - Independent Study
- ANTH 411 - Buddhism and Culture
- HIST 349 - From Asia to America
- HIST 448 - Asian American History
- WMST 426 - Contemporary Asian American Families

Electives - Credits: 28-32

Total Credits: 120
Courses taken in any one Asian language with a grade of C or better may be applied toward the needed electives with a total of eight to ten credits for the major and three to six credits for the minor.

ART 495 may be taken only when the topic is Asian Art. Art Department pre-requisites may be waived for Asian Studies majors for upper division Asian Art courses by permission of the instructor.

Students are required to follow standard university policies requiring pre-requisite fulfillment unless prior arrangements are made with advisors and instructors.

Committee:

See the Asian Studies website at liberalarts.unlv.edu/interdisciplinary/ASIANSTUDIES2.html for a complete listing of Asian Studies Faculty and Asian Studies program committee members.

**Asian and Asian American Studies**

**AIIS 100 - Introduction to American Indian and Indigenous Studies**
Explains the development of the academic discipline of American Indian and Indigenous Studies. Explores how its interdisciplinary composition facilities the exploration of Native histories, cultures and contemporary concerns. Promotes new knowledge about American Indian people and sovereignty.

Credits: 3
Notes: Satisfies the Multicultural Requirement.

**AIIS 260 - Introduction to Native American History**
(Same as HIST 260). An examination of significant events and trends in Native American history. The course will focus on the contributions made by American Indians to the development of North American history and contemporary society.

Credits: 3
Notes: Satisfies the Multicultural Requirement.

**AIIS 301 - Peoples and Cultures of Native North America**
Survey of culture areas of native North America and description of representative tribes and of the ways they lived when first visited by Euro-Americans.

Credits: 3
Prerequisites: AIIS 100
Notes: Satisfies Multicultural and Social Science Requirements.
Same as ANTH 301

**AIIS 400C - Native Americans of the Southwest**
Explores the cultures of Native American groups living in the Southwestern United States. Examines tribal relationships with landscapes, other tribal groups, and non-Native peoples. Native American beliefs, social organization, and history are explored, as are some current conflicts and challenges faced by tribal members.

Credits: 3
Prerequisites: AIIS 100
Notes: Satisfies Multicultural and Social Science Requirements.
Same as ANTH 400C

**AIIS 438A - American Indian History to 1851**
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.

Credits: 3
Prerequisites: AIIS 100
Notes: Satisfies Multicultural and Humanities Requirements.
Same as HIST 438A

**AIIS 438B - American Indian History since 1851**
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).

Credits: 3
Prerequisites: AIIS 100
Notes: Satisfies the Multicultural and Humanities Requirement.
Same as HIST 438B

**AIIS 438C - Topics in American Indian History**
In-depth study of specific aspects of American Indian history.
Credits: 3
Prerequisites: AIIS 100
May be repeated to a maximum of six credits.
Same as HIST 438C

**AIIS 440 - Regions in American Indian History**
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.
Credits: 3
Prerequisites: AIIS 100
Same as HIST 440

**AIIS 494A - Native American Literature**
Literature of Native American peoples, oral traditions through contemporary works.
Credits: 3
Prerequisites: AIIS 100
May be repeated for a maximum of six credits.
Same as ENG 494A

**AIS 101 - Introduction to Asian Studies**
Introduction to the cultures of Asia and the discipline of Asian Studies for the beginning student.
Credits: 3

**AIS 102 - Introduction to Asian American Studies**
Introduction to Asian American Studies provides students with an interdisciplinary overview of scholarly research, histories, contemporary experiences, and political stakes relevant to the interdisciplinary field of Asian American Studies. Placed in a transnational framework, this course examines Asian/Asian America across different Asian diasporic places, spaces, and borders.

Credits: 3
Notes: Satisfies the Multicultural Requirement.

**AIS 124 - Philosophical Traditions of Asia**
Study of the nature of self, mind, knowledge, truth, logic and related themes characteristic of India, China, Japan, or any other Asian country; any one of these may be taught separately.
Credits: 3
Notes: Satisfies International and Humanities Requirement.
May be repeated for a maximum of nine credits.
Please verify that all credits will apply towards your degree.
Same as PHIL 124

**AIS 151 - Introduction to Japanese Civilization**
Introductory survey of the growth and development of Japanese civilization, with emphasis on philosophy, literature, the arts, and society from 2205 B.C. to the present.
Credits: 3
Same as HIST 151

**AIS 201 - The History and Cultures of India**
This course is a survey of the history and cultures of India. Upon successful completion of this course students should have a clear understanding of the major periodization of India history, India's major cultural innovations and contributions to the world, and India's place in the contemporary world.
Credits: 3

**AIS 212 - History of East Asia II**
An introduction to the political, economic, social and cultural history of China, Japan and Korea from 1600 to present. No familiarity with culture or language of China, Japan or Korea is required.
Credits: 3
Notes: Satisfies Humanities Requirement
Same as HIST 212

**AIS 225 - Introduction to Indian Philosophy**
Introductory critical survey of the classical schools of Indian philosophy such as the Vedas,
Upanishads, Bhagavad Gita, Samkhya Yoga, Nyaya, Vaisesika, Mimansa, Vedanta, Jainism, Buddhism, and such recent thinkers as Gandhi.

Credits: 3
Notes: Satisfies International and Humanities Requirement. 
Same as PHIL 225

**AIS 301 - Selected Topics in Asian Studies**
Examination of selected topics in Asian Studies.
Credits: 3
Prerequisites: AIS 101.
May be repeated to a maximum of six credits.

**AIS 306 - Contemporary Chinese Society**
Highlights the changing characteristics of Chinese urban-rural and state-society conflicts in the era of Mao Zedong’s leadership and in the contemporary post-Mao reforms.
Credits: 3
Prerequisites: AIS 101 or AIS 102
Notes: Satisfies International and Social Science Requirements.
Same as CHI 443

**AIS 323 - Chinese Popular Culture**
Introduction to contemporary Chinese culture and society. Focuses on popular literature, contemporary Chinese cinema, soap operas, political pop in the arts, pop music, and Internet literature in China. Taught in English
Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as CHI 323

**AIS 331 - Chinese Literature in Translation**
Major works of Chinese fiction, drama, and poetry from the classical period to the present.
Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as CHI 331

**AIS 407B - Political Systems of East Asia**
Examines the political development and governmental institutions of East Asia. Analyzes how the contemporary political systems in the region have evolved and how they work. Special emphasis on political culture and policy making.
Credits: 3
Prerequisites: AIS 101 or AIS 102
Notes: Satisfies International and Social Science Requirement.
Same as PSC 407B

**AIS 443 - Modern Chinese Culture through Film**
Study of modern Chinese culture from both historical and critical perspectives through selected Chinese films. The primary focus is on the Mainland China but students will also be introduced to Hong Kong, Taiwan, diaspora and transnational Chinese cultures.
Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as CHI 443

**AIS 449A - History of Japan to 1800**
Analysis and interpretation of Japanese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.
Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as HIST 449A

**AIS 449B - History of Japan since 1800**
Analysis and interpretation of Japanese history since 1800, Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.
Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as HIST 449B

**AIS 449C - Topics in Japanese History**
In-depth study of specific aspects of Japanese history.
Credits: 3
Prerequisites: AIS 101 or AIS 102
May be repeated for a maximum of 6 credits.
Please verify that all credits will apply towards your degree.

Same as HIST 449C

**AIS 451 - Explorations in South Asian Religions**
Introduces four major religions of South Asia: Hinduism, Buddhism, Jainism, and Sikhism. The origins, developments, philosophy, beliefs, and practices of these religions are explored. Adaptations made by the people under the impact of modern influences are discussed.

Credits: 3
Prerequisites: Senior standing and AIS 101.

**AIS 455A - History of China to 1800**
Analysis and interpretation of Chinese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.

Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as HIST 455A

**AIS 455B - History of China Since 1800**
Analysis and interpretation of Chinese history since 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations.

Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as HIST 455B

**AIS 455C - Topics in Modern China**
In-depth study of aspects of modern China. Each year a different theme, such as "Reform, Rebellion, and Revolution" or "Twentieth-Century China."

Credits: 3
Prerequisites: AIS 101 or AIS 102
May be repeated for a maximum of 6 credits.
Same as HIST 455C

**AIS 485A - Asian Literature**
Study of modern and contemporary Asian literature, including comparison and contrast with Western literature and culture.

Credits: 3
Prerequisites: AIS 101 or AIS 102
Same as ENG 485A

**AIS 499 - Independent Study**
Program of independent reading and research, to be selected in consultation with an instructor before registration, and with the approval of the Asian Studies Program Chair.

Credits: 3

**GWK 300 - Great Works of Philosophy and Literature**
Close reading of selected core texts of philosophy and literature, including one or more works from late modern times.

Credits: 3
Prerequisites: ENG 102 and consent of instructor.
Latinx and Latin American Studies Major (BA)

Latinx and Latin American Studies Major-Bachelor of Arts (BA)
Latinx and Latin American Studies is an interdisciplinary major that covers the important region of Mexico, Central and South America, and the Caribbean and of Latinx people in the United States. The program promotes intercultural understanding, and offers students an opportunity to acquire a comprehensive knowledge of Latin America in its many aspects and from many different points of view. Participating faculty specialize in political economy, border studies, anthropological approaches, exile studies, as well as Latinx and Latin American history, literature and film. Coursework in the program offers students a solid foundation in the history, politics, economics, culture, and literature of Latin America and the Caribbean and of Latinx communities in the United States.

Please see the UNLV College of Liberal Arts, Latinx and Latin American Studies web page at www.unlv.edu/interdisciplinary/latin-american-studies for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-latin-american-studies.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. To gain a multidisciplinary understanding of the history, politics, economics, and culture of Latin America and of the history, contributions, life, and culture of Latinx people in the United States and their transnational contexts from their indigenous origins to the present.
2. To learn about the literature and creative works of the region, from the pre-Colombian period to the present.
3. To expand and facilitate collaborative research and scholarship on Latinx communities/populations both locally and nationally, preparing out students for academic success, employment and leadership positions.
4. To acquire a capacity to summarize and evaluate critically theories and concepts used in the analysis of the history, politics, and economic development of Latin America.
5. To expand critical thinking, communication, and research opportunities through an engaged interdisciplinary curriculum across the university and to improve writing and research skills, including an ability to develop a research question, review the relevant research literature, collect information and data from a variety of sources, and support an argument with evidence and data.
6. To promote a vision of social justice through student-centered teaching/mentoring, research and service by including explorations of race, class, gender and sexuality paradigms and to gain awareness of cultural diversity in Latin America, the U.S., and other parts of the world.
7. To utilize Las Vegas as a laboratory for inquiry as its transformation and development socially, economically, politically, demographically and culturally impact and are impacted by its Latinx communities.

University Graduation Requirements
Please see Graduation Policies for complete information
Latinx and Latin American Studies Degree
Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 37-41 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: 3

Distribution Requirement - Credits: 18-20

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-11 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.

Major Degree Requirements - BA in Latinx and Latin American Studies - Subtotal: 54 Credits

Latinx and Latin American Studies Major Requirements - Credits: 36

Additional Requirements - Credits: 18
- Foreign Language/Foreign Culture: 6 credits (see note 2 below)
- Social Science: 9 credits
- Fine Arts: 3 credits

Latinx and Latin American Studies Major Requirements - Credits: 36
6 credits must include:
- LAS 101 - Introduction to Latin American Studies
- IDS 495A - Interdisciplinary Studies Capstone
- IDS 495B - Independent Study: Capstone II (IDS 495B can only be completed as an internship during the summer)

Select 30 credits from the following:
- AAE 457 - Architecture in Las Americas
- ANTH 434 - Ethnohistory
- ANTH 436 - History of Anthropology
- ART 479 - Artistic Traditions of the Southwest
- HIST 471 - Revolution and Reaction in Contemporary Latin America
- HIST 472 - History of Brazil
- HIST 475 - Modern Latin American Film
- HIST 476 - The Mexican Revolution
- LAS 100 - Introduction to Latina/o Studies
- LAS 227A - Spanish for Heritage Speakers II
- LAS 227 - Introduction to Latin American History and Culture I
- LAS 228 - Introduction to Latin American History and Culture II
- LAS 312 - Spanish Phonetics and Phonology
- LAS 347 - History of Mexico
- LAS 405N - Regional and International Relations of Latin America and the Caribbean

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>LAS 425</td>
<td>Topics in Hispanic Culture</td>
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<td>LAS 473</td>
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<td>LAS 496A</td>
<td>Themes in Modern Chicano/a Literature</td>
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<td>PSC 407M</td>
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<td>SPAN 302</td>
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<td>SPAN 350</td>
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<td>SPAN 369</td>
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<td>WMST 473</td>
<td>Chicana Feminism and Experience</td>
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<tr>
<td>WMST 481</td>
<td>Mothers and Daughters in the United States</td>
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Electives - Credits: 25-29

Total Credits: 120

**Notes**

1. A semester or year at a Latin American university or extensive field work in a Latin American country is strongly recommended.
2. In addition to the foreign language requirements of College of Liberal Arts, two years of Spanish language courses or the equivalent knowledge established by examination are required.

**Committee:**

For information concerning the Latin American Studies Committee and its members go to www.unlv.edu/interdisciplinary/latin-american-studies

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**Latinx and Latin American Studies**

**LAS 100 - Introduction to Latina/o Studies**  
This course is designed to introduce students to the field of Latina/o Studies through the fields of history, sociology, political science, literature and education. Students will use multidisciplinary approaches to this field of study and integrate the various fields to understand the complexity of researching this dynamic population.  
Credits: 3  
Notes: Satisfies the Multicultural Requirement.

**LAS 101 - Introduction to Latin American Studies**  
Interdisciplinary introduction to the culture, history, and political economy of contemporary Latin America. Examines the history of colonialism and independence, values and social structures, political institutions, and economic relations in the region.  
Credits: 3  
Notes: Satisfies the International and Social Science Requirement.

**LAS 227 - Introduction to Latin American History and Culture I**  
Survey of the development of the Iberian states as colonizing powers, the discovery and conquest of America, the growth of political, social, and economic institutions during the Colonial Period (c. 1492 to c. 1810), as well as substantial discussion of the legacy of the Colonial Period.  
Credits: 3  
Same as HIST 227

**LAS 227A - Spanish for Heritage Speakers II**  
Intended for students who have a Spanish language background but little or no formal training. Emphasis on writing skills, grammar, and vocabulary enrichment.  
Credits: 3  
Prerequisites: Consent of instructor  
Notes: Satisfies Humanities and International Requirements.  
Same as SPAN 227
LAS 228 - Introduction to Latin American History and Culture II
Survey of the historical development of Spanish and Portuguese America from the independence movements, c. 1810 - 1825, to the present day, including an examination of the countries' differing approaches to dealing with the social, economic, political and cultural legacies of Iberian colonialism.
Credits: 3
Notes: Satisfies the Humanities and International Requirements.
Same as HIST 228

LAS 312 - Spanish Phonetics and Phonology
Study of the sound system of Spanish, especially as contrasted with English. Spanish pronunciation practice designed to achieve greater authenticity as well as to teach a native-like pronunciation to others.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227
Same as SPAN 312

LAS 347 - History of Mexico
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.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Notes: Satisfies the Humanities and International Requirements.
Same as HIST 347

LAS 405N - Regional and International Relations of Latin America and the Caribbean
Examination of the regional and international relations of Latin America and the Caribbean. Recent theories of IR, regional economic integration, human rights and democratization, and security issues.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Notes: Satisfies Social Science Requirement.
Same as PSC 405N

LAS 407E - Political Systems of Latin America
In-depth study of political concepts and events in Latin America. Examines how politicians have used populism, corporatism, authoritarianism, and democracy to channel and repress political participation. Evaluates competing explanations of rise of military regimes. Considers challenges of democratization, such as building political institutions, political parties, and civic society.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Notes: Satisfies International and Social Science Requirement.
Same as PSC 407E

LAS 425 - Topics in Hispanic Culture
Analysis of different aspects of Hispanic culture, through art, mass media, and popular traditions.
Credits: 3
Prerequisites: SPAN 302
Same as SPAN 425

LAS 444 - Latinos in the American West
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.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Same as HIST 444

LAS 472 - Latina/Latinos in America
Explores the experiences of Latina/os in the U.S., particularly their social and economic integration. Covers and provides a historical context for how gender, racial, ethnic, sexual, and citizenship inequalities affect the rate of socioeconomic and cultural incorporation.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Same as SOC 472

LAS 473 - History of the Andean Region
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.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Notes: Satisfies the Humanities and International Requirements.
Same as HIST 473

LAS 474 - Latin American Ethnic Studies
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.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Same as HIST 474

LAS 496 - Spanish Dialectology
Study of different regional varieties of the Spanish language throughout the world, including differences in pronunciation, grammar, and vocabulary. Sociolinguistic aspects also covered.
Credits: 3
Prerequisites: SPAN 302
Same as SPAN 496

LAS 496A - Themes in Modern Chicano/a Literature
Intensive study of major themes and techniques in the prose, poetry, and theater of Chicano/a writers since 1950.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Notes: Satisfies Multicultural and Humanities Requirement.
Same as ENG 496A

LAS 496B - Early Latino/a Literature
Examines prose and poetry by Latino and Latina writers from the colonial era through the end of the nineteenth century in the United States.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Same as ENG 496B

LAS 496D - Contemporary Latino/a Literature
Examines prose and poetry by Latino and Latina writers since 1900 in the United States.
Credits: 3
Prerequisites: LAS 100 or LAS 101
Notes: Satisfies Humanities and Multicultural Requirements.
Same as ENG 496D

LAS 499 - Latin American Studies: Independent Study
Program of independent reading and research, to be selected in consultation with an instructor before registration, and with the approval of the Latin American Studies Program Chair.
Credits: 3
Prerequisites: LAS 101; and approval of Chair of LAS Program Committee.

LIN 101 - Language and Conceptualization
Study of natural and artificial languages as expressions of cognition and culture. Topics include language structure and origins, cognitive models, categorization, schemas, thinking for speaking, spatial language, parallel processing, language modules, and neural networks. Students analyze samples of natural language and reconstruct their underlying cognitive models.
Credits: 3
Multidisciplinary Studies Major (BA)

Multidisciplinary Studies Major- Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, Multidisciplinary Studies web page at www.unlv.edu/interdisciplinary/multidisciplinary-studies for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-multidisciplinary-studies.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Design and complete an individualized and interdisciplinary course of study not currently offered at UNLV.
2. Identify connections between academic disciplines and engage in interdisciplinary problem-solving.
3. Articulate and apply interdisciplinary theories, research methods, and critical perspectives incorporating at least two academic disciplines.
4. Communicate ideas in written and oral form.
5. Demonstrate competency in relevant communication technologies.
6. Build an intellectual foundation to support continuous learning.

University Graduation Requirements
- Please see Graduation Policies for complete information

Multidisciplinary Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 36-40 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I and
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: 3

MATH 120 or above

Distribution Requirement - Credits 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits

- Social Science
  - Automatically satisfied by Major requirements

- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.

Major Requirements - BA in Multidisciplinary Studies - Subtotal:

(see notes 4-5 below)

Social Sciences - Credits: 9
Fine Arts - Credits: 6
Foreign Languages/Foreign Culture - Credits: 6

Multidisciplinary Studies Major Requirements - Credits: 54-57

Core Requirements: 12 credits
(Courses must be taken in sequence)
- IDS 201 - Introduction to Interdisciplinary Studies
- IDS 240 - Interdisciplinary Research Methods
- IDS 494 - Interdisciplinary Inquiry
- IDS 495A - Interdisciplinary Studies Capstone
- IDS 495B - Independent Study: Capstone II

Multidisciplinary Studies Concentration Requirements:
Option A: 42 credits
Option B: 45 credits

Electives - Option A: Credits: 8-12

(see note 6 below)

Electives - Option B: Credits: 5-9

(see note 7 below)

Total Credits: 120

Notes

1. A minimum of 42 upper-division hours are required for the completion of the degree.
2. In order to successfully complete their degree, students must obtain a C or better in all IDS courses.
3. No courses counted towards the General Education core can be applied to the areas of study, except for the multicultural or international requirement.
4. All courses in the areas of study must be taken prior to IDS 495. Students can take summer courses and still walk in the May graduation as long as they do not take any IDS courses or any courses to be used in the areas of study. Students who wish to participate in the May graduation are limited to twelve summer credits.
5. A student can use a maximum of three credits of private lessons toward an area of study. A student may apply up to a maximum of four physical activity credits combined (PEX) as electives for graduation.
6. Students who choose Option A must complete two areas of study with a minimum of 21 credits in each. A minimum of 18 credits in each area of study must be selected from upper-division courses.
7. Students who choose Option B must complete three areas of study with a minimum of 15 credits in each. A minimum of 12 credits in each area of study must be selected from upper-division courses.
Multidisciplinary Studies

IDS 201 - Introduction to Interdisciplinary Studies
Introduces concepts and methods of interdisciplinary study and provides students with the necessary tools to begin integrating their areas of study. Provides students with the opportunity to develop their career exploration skills. Students begin work on their portfolios by focusing on and developing concepts related to each area of study. Credits: 3

IDS 240 - Interdisciplinary Research Methods
Prepares students to conduct interdisciplinary research by examining the practices, protocols and theories of research used in social and natural sciences and the humanities, including quantitative and qualitative methods. Credits: 3
Prerequisites: IDS 201.

IDS 299 - Rebel Internship Program: General Internship
The purpose of this course is to prepare students for the world of work by providing a structured internship experience that reinforces classroom concepts through hands-on application. This course takes a reflective approach to career development by facilitating students' understanding and competence of a particular career path. Credits: 1-3
Prerequisites: Student must have completed 30 hours of coursework prior to enrollment in IDS 299. Student must be an Admitted student in good academic standing. May be repeated to a maximum of six credits.

IDS 491 - Independent Study
Independent study and/or research specifically related to the student’s two or three areas of study. Conducted under faculty supervision. Credits: 1-3
Prerequisites: IDS 201 and consent of instructor. May be repeated to a maximum of six credits.

IDS 494 - Interdisciplinary Inquiry
Facilitates the application of interdisciplinary research and research design. Students will develop research questions, and apply various research methodologies towards the completion of their Capstone projects. Students will determine how their work and ideas intersect with the chosen theme, employing their interdisciplinary skills to understand and explore the complexity of that theme. Credits: 3
Prerequisites: Senior standing, IDS 201 and one of the following: HIST 251, IDS 240, PSC 302, PSY 240, SOC 403, WMST 302, COM 435, CRJ 301, JOUR 435, PUA 410, SW 416, SW 426.

IDS 495A - Interdisciplinary Studies Capstone
Entails the completion and presentation of a portfolio demonstrating a synthesis of the student’s areas of study. Portfolio may include a comprehensive report, specialized field experience, internship, or creative production reflecting the interdisciplinary nature of the plan of study. Credits: 3
Prerequisites: IDS 201, IDS 494.

IDS 495B - Independent Study: Capstone II
Completion and presentation of portfolio demonstrating a synthesis of student’s areas of study. Through enrollment in a summer internship with an approved site, students complete work, including a capstone project, reflecting the interdisciplinary nature of the IDS degree. Must be taken in the student’s senior year. Credits: 3
Prerequisites: IDS 494 and consent of instructor.
Gender and Sexuality Studies Major
(BA)

Gender and Sexuality Studies Major-Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, Interdisciplinary, Gender and Ethnic Studies web page at https://www.unlv.edu/interdisciplinary/gender-sexuality-studies for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-gender-sexuality-studies.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
Gender and Sexuality Studies Student Learning Outcomes

1. Engage in constructive discussion and demonstrate knowledge of gender and sexuality's relationship to social justice and diversity issues.
2. Apply broad knowledge of the intersectionality of social categories/lived experiences, including but not limited to gender, race, class, sexuality, ability, and nationality.
3. Identify the relationship between privilege and oppression on both individual and systemic levels.
4. Analyze women, gender, and sexuality from a cultural and institutional perspective.
5. Develop knowledge about feminist perspectives, including the following.
   a. Identify feminist theories
   b. Apply feminist research methods and ethics
   c. Interpret evidence from a feminist perspective
6. Produce feminist research that integrates the praxis of local and global activism for the purpose of social change.

University Graduation Requirements
- Please see Graduation Policies for complete information

Gender and Sexuality Studies Degree Requirements -
Total: 120 Credits

(See note 1 below)

General Education Requirements - Subtotal: 36-38

Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 3

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science
- Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab
o Analytical Thinking - 3 credits
  ▪ PHIL 102 - Critical Thinking and Reasoning

Multicultural and International
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Degree Requirements - Gender and Sexuality - Subtotal: 55 Credits

(see note 2-4 below)

Fine Arts - Credits: 3
Foreign Language/Foreign Culture - Credits: 6
Social Science - Credits: 9

Core Major Requirements - Credits: 16

- WMST 101 - Introduction to Women's Studies
- WMST 113 - Gender, Race and Class
- WMST 301 - Feminist Theory
- WMST 302 - Feminist Research Methodology
- WMST 497 - Feminist Praxis

WMST electives - Credits: 21

Electives - Credits: 27-29

Total Credits: 120

Notes

1. All Gender and Sexuality Studies course work must be completed with a grade of C or higher.
2. Students may satisfy up to six credits of the 21 required credits of WMST electives through study abroad. Only courses approved in advance by the Director of Gender and Sexuality Studies or the undergraduate advisor may be used in fulfillment of requirements for the Women's Studies major or minor.
3. Students should consult advisers to plan their schedules early in their UNLV careers because most Gender and Sexuality Studies courses are offered only once annually. WMST 101 and WMST 113 are both pre-requisites for WMST 301 and 302. WMST 301 and 302 are both pre-requisites for WMST 497. If possible, we recommend you plan on taking WMST 301 before taking WMST 302. We also recommend taking WMST 497 immediately after WMST 302: WMST 302 in the Fall of your senior year, and WMST 497 in the Spring of your senior year.
4. Recommended sequence for core major and minor requirements: WMST 101, WMST 113, WMST 301, WMST 302, WMST 497

Gender and Sexuality Studies

WMST 101 - Introduction to Women's Studies
Introduction to the history, theories, methods, and issues that constitute the field of Gender and Sexuality Studies since its inception in the late 1960s. Begins with exploration of individual women’s experiences on the personal level. Considers diverse women’s issues locally, nationally, and globally.
Credits: 3
Notes: Satisfies the Multicultural and Social Science Requirement.

WMST 113 - Gender, Race and Class
Interdisciplinary, cross-cultural survey of the ways in which gender interacts with race, age, class, and sexuality to shape human consciousness and determine the social organization of human
WMST 247 - Philosophy of Feminism
Examination of philosophical writings by past and contemporary thinkers on issues pertaining to women's situations or feminism, focusing on such key concepts as the natural versus the social, equality versus equity, subjectivity, self-fulfillment, and sexuality.
Credits: 3
Same as PHIL 247

WMST 297 - Special Topics
Topics of current interest not incorporated in regular offerings.
Credits: 3
May be repeated to a maximum of six credits.

WMST 301 - Feminist Theory
American feminist thought in its diversity, examining the differences among liberal, radical, Marxist, socialist, psychoanalytic, and postmodern feminisms and the challenges to each posed by women of color.
Credits: 3
Prerequisites: WMST 101 and WMST 113.

WMST 302 - Feminist Research Methodology
Rigorous examination of the theory and application of feminist research methods. What are feminist research methods, and how do these methods differ from traditional research methods or “research on women?” Methods explored include: survey, interview, content analysis, experimental, oral history, case study, and action research.
Credits: 3
Prerequisites: WMST 101 and WMST 113.

WMST 380 - Women and Media
Exploration of the role of women within the media and the treatment of women by the media.
Credits: 3
Prerequisites: WMST 113.
Notes: Same as JOUR 380.

WMST 400 - Rhetoric of Women's Rights
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.
Credits: 3
Prerequisites: COM 216.
Notes: Same as COM 401.

WMST 401J - Women in Politics
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.
Credits: 3
Prerequisites: WMST 113 or upper-division standing.
Notes: Same as HIST 453 & PSC 401J.

WMST 403 - Anthropology of Women and Men
Examines non-western societal forces that shape the way men and women conceptualize the opposite sex. Looks at what constitutes gender as it is manifested in public and private displays of thought, reflection, and action. Explores numerous contemporary non-western cultures to highlight men and women's interaction around the globe.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Same as ANTH 403

WMST 407 - Gender and Communication
Introduction to gender research in communication, studying ways in which language, interpersonal communication, the media, and
various social institutions influence conceptions of gender.
Credits: 3
Prerequisites: WMST 101 or WMST 113.
Notes: This course is crosslisted with WMST 607, credit at the graduate-level requires additional work.
Same as COM 407.

WMST 409J - Feminist Political Theory
Important schools of feminist thought studied: liberal feminism, Marxist feminism, radical feminism, ecofeminism, psychoanalytic feminism, gender feminism, existentialist feminism, postmodern feminism, and multicultural and global feminism. Studies thinkers who provide feminism with its philosophical foundations.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Same as PSC 409J

WMST 411D - Constitutional Rights of Women
Case approach to legal issues concerning abortion, contraception, sterilization, penalties of pregnancy, voting, access to professions, equal pay, and various forms of political, economic and social discrimination. Key constitutional provisions considered include judicial review, due process, equal protection, privileges and immunities, and right to privacy.
Credits: 3
Prerequisites: PSC 101 or equivalent.
Notes: Same as WMST 411D. Satisfies the Multicultural and Social Science Requirement.

WMST 424 - Gay Plays
Study of selected gay plays which includes an examination of appropriate themes and issues.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Same as THTR 424

WMST 426 - Contemporary Asian American Families
Examination of the effect of transnational migration on Asian American families. Exploration of how the changing political, economic, and social circumstances in the United States and in Asian countries affect family structures and gender, racial, and intergenerational relations.
Credits: 3
Prerequisites: WMST 113 or upper-division standing.

WMST 427B - Gender and Literature
Study of gender and literature through the ages. Focus may be aesthetic, historical or thematic.
Credits: 3
Prerequisites: WMST 113 or upper-division standing.
Notes: Same as ENG 427B. Topics may vary. May be repeated for a maximum of six credits.

WMST 428 - Women and Crime
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.
Credits: 3
Prerequisites: CRJ 270 and CRJ 301.
Notes: Same as CRJ 428.

WMST 432A - History of American Women to 1870
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies Humanities and Multicultural Requirements. Same as HIST 432A. This course is crosslisted with WMST 632A. Credit at the 600-level requires additional work.
WMST 432B - History of American Women, 1870 to the Present
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as HIST 432B. This course is crosslisted with WMST 632B. Credit at the 600-level requires additional work.

WMST 440B - Gender and Early Literature
Study of gender, sexuality, and literature from the beginning to the Early Modern period.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Same as ENG 440B. Topics may vary.

WMST 441B - Gender and Renaissance Literature
Study of gender and literature in the Renaissance.
Credits: 3
Prerequisites: ENG 102.
Notes: Same as ENG 441B. Topics may vary.

WMST 445 - Men in Society
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.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Same as SOC 445

WMST 446B - Gender and Modern British Literature
Study of gender and literature in the British tradition.
Credits: 3
Prerequisites: ENG 102.
Notes: Same as ENG 446B. Topics may vary.

WMST 449 - Sex and Social Arrangements
Examination of human sexuality in social contexts. Emphasis on cross-cultural and historical comparisons with themes dealing with deviant sexuality, pornography, and homosexuality.
Credits: 3
Prerequisites: SOC 101 or SOC 102 or WMST 113.
Notes: Satisfies the Multicultural and Social Science Requirement. Same as SOC 449.

WMST 453 - Gender and Society
Examines the micro-social and political aspects of gender, including socialization into gender roles, same-sex, and cross-sex communications, interactions, and long-term relationships.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Notes: Satisfies the Multicultural and Social Science Requirement. Same as SOC 453.

WMST 454B - Gender and Modern American Literature
Study of gender and literature in the American tradition.
Credits: 3
Prerequisites: ENG 102.
Notes: Same as ENG 454B. Topics may vary.

WMST 463 - Climate Justice
Emphasizing ecofeminism, this course explores political, economic, and ideological factors driving climate change, and the disproportionate impacts climate change has on women, minorities, developing nations, youth, future generations, and non-human life. It explores the struggles of people worldwide and the growing justice movement to fight climate change and its inequities.
Credits: 3
Prerequisites: WMST 113

WMST 467 - Psychology of Gender
Examination of gender—the "social role" of being male or female and the effects it has on people as individuals and as a society.
Credits: 3
Prerequisites: PSY 101.
Notes: Same as PSY 467.

**WMST 472 - Controversies in Gender and Race**
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 a variety of academic and non-academic situations.
Credits: 3
Prerequisites: WMST 101 or WMST 113.
Notes: This course is crosslisted with WMST 672. Credit at the 600-level requires additional work.

**WMST 473 - Chicana Feminism and Experience**
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.
Credits: 3
Prerequisites: WMST 101 or WMST 113.
Notes: Satisfies Multicultural and Social Science Requirement. This course is crosslisted with WMST 673. Credit at the 600-level requires additional work.

**WMST 474 - Gender, Sexuality, and Consumer Culture**
Explores theoretical and empirical approaches to consumer culture, with a focus on gender, sexuality, 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.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Notes: This course is crosslisted with WMST 674. Credit at the 600-level requires additional work.

**WMST 475 - Gender, Development, and Globalization**
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 equality.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Notes: Satisfies International, Foreign Culture and Social Science Requirement. This course is crosslisted with WMST 675. Credit at the 600-level requires additional work.

**WMST 476 - Feminism and Activism**
Presents selected activist movements across the political spectrum. Includes nineteenth century abolitionism, women's rights and twentieth century socialism and feminism. Also examines movements for social change from the right and left.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Notes: This course is crosslisted with WMST 676. Credit at the 600-level requires additional work.

**WMST 477 - Critical Race Feminism**
Examination of feminist theories put forward by women of color. Topics include critical race feminist approaches to race, ethnicity, gender, class, sexuality, language, immigration, and labor.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with WMST 677. Credit at the 600-level requires additional work.

**WMST 478 - Women and Society**
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.
WMST 481 - Mothers and Daughters in the United States
Women's roles have changed greatly over time. Various factors shape how women perceive themselves and, often enough, it is the relationship one has with her mother that influences said perception. Expanding on Women's Studies goals and learning outcomes, this course will explore the relationship between mothers and daughters.
Credits: 3
Prerequisites: WMST 101 or WMST 113
Notes: Same as SOC 478

WMST 488 - Bodies, Sex, and Health
Examines the impact of social, economic, scientific, and political issues on women’s mental and physical health. Particularly recommended for students contemplating careers in medicine, counseling, social work, or public health. Includes structural analysis, advocacy, and ethical implications, as well as gender, race, class, and sexuality.
Credits: 3
Prerequisites: WMST 101 or WMST 113

WMST 490 - Special Topics
Intensive study of a major topic in Gender and Sexuality Studies.
Credits: 3
Prerequisites: WMST 113.
Notes: This course is crosslisted with WMST 690. Credit at the 600-level requires additional work. May be repeated to a maximum of twelve credits.

WMST 491B - Women in Medieval Culture and Society
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as HIST 491B. This course is crosslisted with WMST 691B. Credit at the 600-level requires additional work.

WMST 492A - Women in Early Modern Europe
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as HIST 492A. This course is crosslisted with WMST 692A. Credit at the 600-level requires additional work.

WMST 492B - Women's Role in European History, 1750-1970
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.
Credits: 3
Prerequisites: Six credits of history.
Notes: Satisfies the Humanities and International Requirements. Same as HIST 492B.

WMST 495 - Special Topics in Gender and History
Study of a selected topic concerning gender and history.
Credits: 3
Prerequisites: Six credits of history.
Notes: Same as HIST 495. This course is crosslisted with WMST 695. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.
WMST 497 - Feminist Praxis
Capstone course where majors complete a project embodying the principles of feminist praxis and synthesize knowledge of Gender and Sexuality Studies, develop their own definition of feminist praxis, develop skills useful in post-undergraduate years, define a response to patriarchy, and develop alternative practices.
Credits: 4
Prerequisites: WMST 101, WMST 113, WMST 301 and WMST 302.

WMST 498 - Internship in Women’s Studies
Students interact in a work or social setting that presents issues related to women. Arranged in consultation with the chair of women’s studies.
Credits: 1-6
Prerequisites: Upper-division standing.
May be repeated to a maximum of six credits.

WMST 499 - Independent Study
Independent study of special topics selected in consultation with the chair of women’s studies.
Credits: 1-6
Prerequisites: Consent of chair.
May be repeated to a maximum of six credits.

Social Science Studies Major (BA)

Social Science Studies Major - Bachelor of Arts (BA)
Please see the UNLV Social Science Studies department web page at http://www.unlv.edu/interdisciplinary/social-science-studies for more information about department programs, faculty, and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-social-science-studies.

Please see advising information at the UNLV Wilson Advising Center at liberalarts.unlv.edu/WAC/

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Understand the value of interdisciplinary inquiry
2. Identify the theories, methods, and critical perspectives of at least two academic disciplines in the social sciences.
3. Apply the theories, methods, and critical perspectives of at least two academic disciplines in the social sciences.
4. Synthesize the theories, methods, and critical perspectives of at least two disciplines in the social sciences into a developed plan of research and analysis.
5. Apply a synthesized plan of research to a single problem or set of problems concerning contemporary society.
6. Communicate ideas clearly in written and oral form.
7. Build an intellectual foundation to support continuous learning.

University Graduation Requirements
- Please see Graduation Policies for complete information

Social Science Studies Degree Requirements - Total: 120 Credits
(see note 1)

General Education Requirements - Subtotal: 36-40 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6
- ENG 101 - Composition I and
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3
Constitutions - Credits: 4-6

Mathematics - Credits: 3

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 credits**
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.

- **Social Sciences:**
  - Automatically satisfied by Major requirement

- **Life and Physical Sciences and Analytical Thinking: 9-10 credits**
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses for Life and Physical Sciences category; at least one must be a lab.

Multicultural and International

(see note 2)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Social Science Studies Concentration Requirements: 42 credits
(see notes 5, 6 and 7 below)
Students choose 42 credits (33 must be Upper Division) from all available courses in the following Social Science departments: Anthropology, History, Political Science, Psychology, Sociology, Gender and Sexuality Studies.

Electives - Credits: 10-12

(see note 8)

Total Credits: 120

Notes

1. All courses in the Social Science major must be taken prior to IDS 495. Students can take summer courses and still walk in
the May graduation as long as they do not take any IDS courses or any courses in the major. Students who wish to participate in the May graduation are limited to twelve summer credits.

2. No courses counted towards the General Education core can be applied to the areas of study, except for the multicultural or international requirement.

3. In order to successfully complete their degree, students must obtain a C or better in all IDS courses.

4. Unless by special permission a maximum of six credits of Independent Study.

5. A minimum of 42 upper-division hours are required for the completion of the degree.

6. Students may complete a maximum of 21 credits from any one department.

7. Students must complete a minimum of 6 credits in at least three different Social Science departments.

8. A student may apply up to a maximum of four physical activity credits combined (PEX) as electives for graduation.

African American and African Diaspora Studies Minor

Minimum GPA: 2.50

Courses Include - Total Credits: 21

- AAS 101 - African American Survey
- AAS 330 - From Civil Rights to Black Power and Beyond
- AAS 433 - Contemporary Issues in African American Studies

and 12 credits from the following elective list:

- AAS 105 - African American Music and Culture
- AAS 166 - Survey of African-American Dance
- AAS 232 - History of Africa III
- AAS 264 - African American Psychology
- AAS 286 - Contemporary Black Filmmakers
- AAS 288 - African Americans in Film
- AAS 289 - Film, Race, and Ethnicity
- AAS 331 - Selected Topics in African-American Film
- AAS 420 - African-American Spirituality
- AAS 433B - African American History to 1877
- AAS 433C - African American History since 1877
- AAS 435 - Malcolm X
- AAS 436 - Politics of Racial Ambiguity
- AAS 440 - Selected Topics in African American Studies
- AAS 479A - West Africa and the Making of the Atlantic World
- AAS 491 - Early African-American Literature
- AAS 492 - Modern African-American Literature
- AAS 499 - Independent Research in African American Studies
- HIST 433 - African-American History
- MUS 134* - Jazz Appreciation
- THTR 428 - Black Drama and Performance

Not more than one of the following courses may count toward the minor in African American and African Diaspora Studies:

- PSC 401I - Ethnic and Minority Politics
- SOC 471 - Race and Ethnic Relations in America
- WMST 113 - Gender, Race and Class

Use of the following courses for minor credit requires permission of the Director of the Program:

- ENG 499 - Independent Study
- HIST 497 - Independent Study
- HIST 498 - Advanced Historical Studies
- PSC 403Z - Special Topics in Public Policy
- PSC 480A - Independent Study and Research in Political Science

American Indian and Indigenous Studies Minor

C or higher in any course counted for the minor.

Courses Include - Total Credits: 21
Asian and Asian American Studies Minor

The Asian and Asian American Studies program focuses on the dynamic social, cultural, political, linguistic, literary, artistic, and historical aspects of Asian and Asian American life. The program's transnational emphasis and research-intensive curriculum trains students in diverse areas of Asian, Pacific Islander, and Asian American communities, especially the historical experiences and contemporary practices and lifeways of Chinese, Filipino, Indian, Japanese, Korean, Pakistani, Sri Lankan, Thai, Vietnamese, indigenous Hawaiian, and other Asian/Pacific Islanders. The degree prepares students for careers in government and teaching, as well as in areas of international business, law, consulting, tourism, and media.

Courses Include - Total Credits: 18

12 credit hours of approved coursework from Group A & B.

- Students must complete 9 credits in one group and at least 3 credits in the other group
- A minimum of 9 credits of these must be at the upper-division level

6 credits of Required Core Courses

- AIS 101 - Introduction to Asian Studies
- AIS 102 - Introduction to Asian American Studies

Group A: Asian Studies

- AIS 124 - Philosophical Traditions of Asia
- AIS 151 - Introduction to Japanese Civilization
- AIS 201 - The History and Cultures of India
- AIS 212 - History of East Asia II
- AIS 225 - Introduction to Indian Philosophy
- AIS 301 - Selected Topics in Asian Studies
- AIS 306 - Contemporary Chinese Society
- AIS 323 - Chinese Popular Culture
- AIS 331 - Chinese Literature in Translation

Group B: American and Native American Studies

- AIIS 100 - Introduction to American Indian and Indigenous Studies
- HIST 438B - American Indian History Since 1851
- ENG 494A - Native-American Literature
- IDS 495A - Interdisciplinary Studies Capstone

Distribution Requirement (9 credit hours total - 3 credit hours from each of the following categories):

- History and Sovereignty (3 credit hours from below)
  - HIST 208 - World History I
  - HIST 227 - Introduction to Latin American History and Culture I
  - HIST 438A - American Indian History to 1851
  - HIST 438C - Topics in American Indian History
  - HIST 440 - Regions in American Indian History
  - HIST 347 - History of Mexico
  - HIST 474 - Latin American Ethnic Studies

- Culture and Archaeology (3 credit hours from below)
  - ANTH 301 - Peoples and Cultures of Native North America
  - ANTH 305R - Arctic Anthropology
  - ANTH 400C - Native Americans of the Southwest
  - ANTH 434 - Ethnohistory
  - ANTH 440A - Archaeology of North America
  - ANTH 440B - Archaeology of the Great Basin
  - ANTH 440C - Archaeology of the Southwest

- Comparative (3 credit hours from below)
  - ART 479 - Artistic Traditions of the Southwest
  - PBH 200 - Multicultural Health
  - PSC 401I - Ethnic and Minority Politics
  - SOC 205 - Ethnic Groups in Contemporary Societies
  - SOC 471 - Race and Ethnic Relations in America
  - WMST 432A - History of American Women to 1870
  - WMST 477 - Critical Race Feminism
• AIS 407B - Political Systems of East Asia
• AIS 425 - Topics in Japanese Culture
• AIS 443 - Modern Chinese Culture through Film
• AIS 449A - History of Japan to 1800
• AIS 449B - History of Japan since 1800
• AIS 449C - Topics in Japanese History
• AIS 451 - Explorations in South Asian Religions
• AIS 455A - History of China to 1800
• AIS 455B - History of China Since 1800
• AIS 455C - Topics in Modern China
• AIS 485A - Asian Literature
• AIS 499 - Independent Study
• ART 480* - Art of China
• ART 481* - Art of Japan
• CHI 105 - Chinese Business Culture
• CHI 113 - Elementary Chinese I
• CHI 114 - Elementary Chinese II
• CHI 213 - Intermediate Chinese I
• CHI 214 - Intermediate Chinese II
• CHI 301 - Third-Year Chinese: Conversation and Composition
• CHI 302 - Third-Year Chinese: Grammar and Composition
• CHI 322 - Modern Chinese Literature in Translation
• CHI 350 - Topics in Chinese Literature
• ENG 477A - Film and Literature
• HIST 150 - Introduction to Chinese Civilization
• JPN 113 - Elementary Japanese I
• JPN 114 - Elementary Japanese II
• JPN 213 - Intermediate Japanese I
• JPN 214 - Intermediate Japanese II
• JPN 301 - Third-Year Japanese I
• JPN 302 - Third-Year Japanese II
• JPN 401 - Advanced Japanese Composition I
• JPN 416 - Japanese for Business I
• JPN 417 - Japanese for Business II
• PHIL 467 - Indian Philosophy
• PHIL 468 - Chinese and Japanese Philosophy
• PHIL 469 - Gandhian Welfare Philosophy and Culture
• PSC 405L - East Asia in World Politics
• PSC 405M - The Pacific Rim and World Politics
• PSC 407O - Islamic Politics

Gender and Sexuality Studies Minor

Courses Include - Total Credits: 22

WMST 101 - Introduction to Women’s Studies
WMST 113 - Gender, Race and Class
WMST 301 - Feminist Theory
WMST 302 - Feminist Research Methodology
WMST 497 - Feminist Praxis

and six credits from approved list of WMST electives.

Gerontology Minor

Provides a multidisciplinary foundation in aging and gerontology. The minor thus serves students from a variety of disciplines who are interested in working with the aging population. Additionally, students will have the opportunity to gain practical experiences through an internship, field-work or a practicum, thus enhancing their potential employability in a broad spectrum of aging-related organizations.

Admission to the Minor

Must have C or higher in any course counted for the minor.

Required Minor Courses:

**Required Core Courses - Total Credits: 6**

Select one:

• SW 104 - Perspectives in Aging
• PBH 165 - Personal Health Across the Lifespan

Select one:

• NURS 486 - Gerontology
• PSY 442 - Psychology of Aging
• SOC 410 - Sociology of Aging

Group B: Asian American Studies

• AIS 301 - Selected Topics in Asian Studies
Required Culminating Experience (Practicum, Internship, Research) - Total Credits: 3

Must be taken in the student's Senior year. Select one:
- HCA 493 - Health Care Administration Practicum
- IDS 495A - Interdisciplinary Studies Capstone
- NURS 401 - Nursing Care of Older Adults
- SOC 390 - Internship in Sociology

Required Minor Electives
Electives (a total of 9 credits, 6 of which must be at the 300-400 level)
Select any three (3) of the following courses:
*May only be used as an elective if the class is not satisfying a Core Course Requirement. /**Online class
- ANTH 462 - Human Osteology
  *ANTH 465 - **Human Growth and Aging
- CED 310 - Relationships Across the Lifespan
- CED 408 - Counseling the Older Adult
- HCA 480 - Organization and Management of Long-Term Care Services
  *HED 165 - **Personal Health Across Lifespan
- KIN 316 - Motor Development Across the Lifespan
  KIN 461 - Physical Activity in Aging
  *KIN 462 - Adult Development in Aging
- NURS 299 - Nutrition and Development Across the Lifespan
  NURS 401 - Nursing Care of Older Adults
  *NURS 486 - Gerontology
- PSY 496 - Advanced Independent Study
  *PSY 442 - **Psychology of Aging
- SOC 484 - Sociology of Death and Dying
  *SW 104 - **Perspectives in Aging
- SW 461 - Seminar: Contemporary Issues in Social Welfare
- SW 499 - Independent Study

Minor must be completed by date of graduation

Total Credits: 18

Latinx and Latin American Studies Minor

Latinx and Latin American Studies is an interdisciplinary minor that covers the important region of Mexico, Central and South America, and the Caribbean and of Latinx people in the United States. The program promotes intercultural understanding, and offers students an opportunity to acquire a comprehensive knowledge of Latin America in its many aspects and from many different points of view. Participating faculty specialize in political economy, border studies, anthropological approaches, exile studies, as well as Latinx and Latin American history, literature and film. Coursework in the program offers students a solid foundation in the history, politics, economics, culture, and literature of Latin America and the Caribbean and of Latinx communities in the United States.

Learning Outcomes:

1. To gain a multidisciplinary understanding of the history, politics, economics, and culture of Latin America and of the history, contributions, life, and culture of Latinx people in the United States and their transnational contexts from their indigenous origins to the present.
2. To learn about the literature and creative works of the region, from the pre-Colombian period to the present.
3. To expand and facilitate collaborative research and scholarship on Latinx communities/populations both locally and nationally, preparing out students for academic success, employment and leadership positions.
4. To acquire a capacity to summarize and evaluate critically theories and concepts used in the analysis of the history, politics, and economic development of Latin America.
5. To expand critical thinking, communication, and research opportunities through an engaged interdisciplinary curriculum across the university and to improve writing and research skills, including an ability to develop a research question, review the relevant research literature, collect information and data from a variety of sources, and support an argument with evidence and data.

6. To promote a vision of social justice through student-centered teaching/mentoring, research and service by including explorations of race, class, gender and sexuality paradigms and to gain awareness of cultural diversity in Latin America, the U.S., and other parts of the world.

7. To utilize Las Vegas as a laboratory for inquiry as its transformation and development socially, economically, politically, demographically and culturally impact and are impacted by its Latinx communities.

Courses Include - Total Credits: 18

- LAS 101 - Introduction to Latin American Studies and 15 additional credits from approved courses, at least 12 credits must be upper division.

- AAE 457 - Architecture in Las Americas
- ANTH 434 - Ethnohistory
- ANTH 436 - History of Anthropology
- ART 479 - Artistic Traditions of the Southwest
- HIST 471 - Revolution and Reaction in Contemporary Latin America
- HIST 472 - History of Brazil
- HIST 475 - Modern Latin American Film
- HIST 476 - The Mexican Revolution
- LAS 100 - Introduction to Latina/o Studies
- LAS 227A - Spanish for Heritage Speakers II
- LAS 227 - Introduction to Latin American History and Culture I
- LAS 228 - Introduction to Latin American History and Culture II
- LAS 312 - Spanish Phonetics and Phonology
- LAS 347 - History of Mexico
- LAS 405N - Regional and International Relations of Latin America and the Caribbean
- LAS 407E - Political Systems of Latin America
- LAS 425 - Topics in Hispanic Culture
- LAS 444 - Latinos in the American West
- LAS 472 - Latina/Latinos in America
- LAS 473 - History of the Andean Region
- LAS 474 - Latin American Ethnic Studies
- LAS 496A - Themes in Modern Chicano/a Literature
- LAS 496B - Early Latino/a Literature
- LAS 496D - Contemporary Latino/a Literature
- LAS 499 - Latin American Studies: Independent Study
- PSC 407M - The Mexican Revolution
- PSC 407N - Revolution and Reaction in Contemporary Latin America
- SPAN 301 - Third-Year Spanish: Conversation and Composition
- SPAN 302 - Third-Year Spanish: Grammar and Composition
- SPAN 350 - Topics in Hispanic Literature
- SPAN 366 - Business Spanish II
- SPAN 368 - Spanish for the Tourism Industry
- SPAN 369 - Spanish for the Legal Profession
- SPAN 370 - Spanish for the Medical Profession
- WMST 473 - Chicana Feminism and Experience
- WMST 481 - Mothers and Daughters in the United States

Gerontology Certificate: Theatre

Members of the Interdisciplinary Program in Gerontology may select an area of concentration in Senior Adult Theatre by combining an approved curriculum from both programs.
**Philosophy**

**Purpose and Focus**
Most disciplines have their origins in philosophy, and philosophy still underlies 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.

**Degree Objectives**
One primary objective of a philosophical education is to instill an appreciation for Socrates’ adage, “The unexamined life is not worth living for a human being.” Other objectives of our particular program are:

1. To acquire facility in the theory and practice of argumentation, reasoning, and critical thinking;
2. To enhance abilities to speak and write;
3. To be able to appreciate, interpret, and evaluate the classics of Western philosophy from antiquity to the present;
4. To be knowledgeable about the central problems in the main branches of philosophical theory, such as metaphysics, epistemology, ethics, and the philosophy of science;
5. To be prepared for graduate study in philosophy or another academic field;
6. To have a basis for going to law school, medical school, divinity school, or another professional school.

**Accreditation**
Northwest Commission on Colleges and Universities

**Undergraduate Major**
Philosophy

**Academic Policies**
All philosophy majors must achieve a 2.70 GPA in philosophy courses. All philosophy minors must achieve a 2.50 GPA in philosophy courses.

**Advisement**
For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors and minors are assigned or may select a faculty advisor who should be consulted for more specialized academic advising.

**Philosophy Major (BA)**

**Philosophy Major- Bachelor of Arts (BA)**
Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at www.unlv.edu/philosophy for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-philosophy.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.

**Accreditation**
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Learning Outcomes**
Goal I: To exhibit facility in the theory and practice of argumentation, reasoning, and critical thinking;

Students shall be able to:
1. Master the practice of reasoning well including
   o The ability to construct clear and concise summarizations and assessments of the reasoning in complex passages by
     ▪ Extracting their conclusions,
     ▪ Distilling the lines of reasoning in support of those conclusions, and
     ▪ Evaluating how well such reasoning supports those conclusions.
   o The ability to construct cogent arguments for their own conclusions and to express their reasoning in a coherent and convincing manner.
2. Demonstrate knowledge of, and competence with, the theory, of argumentation and logic through their abilities to:
   o Describe different approaches to logical theory, and to articulate their aims and scope,
   o Define and apply central concepts and techniques of logical theory,
   o Describe major results of logical theory, and
   o Sketch how to arrive at those results.

Goal II: To demonstrate an understanding of the classics of Western philosophy form antiquity to the present;

Students shall be able to:

- Identify major works or figures from at least three periods of the history of Western philosophy,
- Articulate and, when appropriate, compare or contrast, the overall philosophical positions taken by these works or figures,
- Summarize the major motivations or arguments for these positions,
- Present objections that have been raised or could be raised to these positions,
- Assess the relative merits of these arguments and objections.

Goal III: To demonstrate knowledge about central problems in major branches of contemporary philosophical theory, such as metaphysics, epistemology, ethics, and the philosophy of science;

Students shall be able to:

- Identify central issues or debates in at least three core areas of contemporary philosophical theory,
- Articulate and, when appropriate, compare or contrast, different views that might be taken with respect to these issues,
- Summarize major motivations or arguments for these alternative positions,
- Assess the relative merits of these arguments and objections.

University Graduation Requirements

- Please see Graduation Policies for complete information

Philosophy Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 36-38 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 3

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
- Two courses 3 credits each from two different humanities areas - 6 credits
- One course in fine arts - 3 credits

- **Social Science**
  - Automatically satisfied by Major requirements

- **Life and Physical Sciences and Analytical Thinking: 9-10 credits**
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BA in Philosophy - Subtotal: 60 Credits

**Foreign Language/Foreign Culture - Credits: 6**

**Humanities - Credits: 6**

**Fine Arts - Credits: 6**

**Philosophy Major Requirements - Credits: 42**
- PHIL 101 - Introduction to Philosophy
- PHIL 114 - Introduction to Symbolic Logic
- PHIL 283 - Philosophy Milestone Experience
- PHIL 483 - Senior Seminar
  and one other lower division course
(excluding PHIL 102)

Any two of the following upper-level courses on the history of philosophy, one of which must be either: PHIL 401 or PHIL 403:
- PHIL 310 - Great Philosophers
- PHIL 401 - Ancient Philosophy
- PHIL 402 - Medieval Philosophy
- PHIL 403 - Early Modern Philosophy
- PHIL 404 - Nineteenth-Century Philosophy
- PHIL 405 - Contemporary Philosophy
- PHIL 406 - American Philosophy
- PHIL 410 - Plato
- PHIL 411 - Aristotle
- PHIL 415 - Kant
- PHIL 431 - History of Scientific Thought or any other relevant upper-level courses approved by the department chair.

Any two of the following upper-level courses on contemporary philosophical topics (excluding value theory):
- PHIL 330 - Computers and Culture
- PHIL 342 - Phenomenology
- PHIL 356 - Theories of Culture
- PHIL 425 - Philosophy of Language
- PHIL 430 - Philosophy of Science
- PHIL 432 - Philosophy of the Social Sciences
- PHIL 433 - Philosophical Psychology
- PHIL 434 - Philosophy of Cognitive Science
- PHIL 435 - Philosophy of Mind
- PHIL 440 - Theory of Knowledge
- PHIL 441 - Metaphysics
- PHIL 449 - Philosophy of Religion
- PHIL 452 - Aesthetics
  or any other relevant upper-level courses approved by the department chair.

One of the following upper-level courses on Value Theory:
- PHIL 311 - Professional Ethics
- PHIL 320 - Philosophy of Law
- PHIL 345 - Health Care Ethics
- PHIL 446 - Social and Political Philosophy
- PHIL 450 - Ethical Theory
- PHIL 452 - Aesthetics
  or any other relevant upper-level courses approved by the department chair.

Fourteen credits of electives within philosophy, 12 of which must be at the 300-400 level

**Electives - Credits: 22-24**

Total Credits: 120
Philosophy Major: Law and Justice Concentration - Credits 12

Majors may choose their electives to fulfill the requirements for a legal studies centered concentration.

**Required**
- PHIL 320 - Philosophy of Law

**Two of the following ethics and public policy courses:**
- PHIL 311 - Professional Ethics
- PHIL 345 - Health Care Ethics
- PHIL 446 - Social and Political Philosophy
- PHIL 450 - Ethical Theory

**The following reasoning theory course:**
- PHIL 114 - Introduction to Symbolic Logic

**Philosophy Minor**

Courses Include - Total Credits: 18

- PHIL 102 - Critical Thinking and Reasoning
- PHIL 105 - Evidence and Inductive Reasoning
- PHIL 114 - Introduction to Symbolic Logic

and 15 additional PHIL credits, 12 of which must be upper division (300-400) level.

**Philosophy, Law and Justice Minor**

The Philosophy Department also offers a legal studies centered Philosophy minor.

Courses Include - Total Credits: 18

- PHIL 102 - Critical Thinking and Reasoning
- PHIL 320 - Philosophy of Law

Two of the following ethics and public policy courses, one of which must be above the 300 level:
- PHIL 135 - Introduction to Ethics
- PHIL 242 - Ethics for Engineers and Scientists
- PHIL 245 - Contemporary Moral Issues
- PHIL 249 - Environmental Ethics
- PHIL 311 - Professional Ethics
- PHIL 345 - Health Care Ethics
- PHIL 446 - Social and Political Philosophy
- PHIL 450 - Ethical Theory

Two additional upper division (300-400) philosophy courses.

**Religious Studies Minor**

The Philosophy Department also offers an interdisciplinary minor in religious studies.

Courses Include - Total Credits: 18

**Two of the following lower-division courses:**
- PHIL 115 - Philosophy of Death and Dying
- PHIL 124 - Philosophical Traditions of Asia
- PHIL 205 - Science and Religion
- PHIL 210 - World Religions
- PHIL 225 - Introduction to Indian Philosophy

Or some other course focusing on religion approved by the department chair or program coordinator.

- PHIL 459 - Philosophy of Religion

Or some other course on the philosophy of religion approved by the department chair or program coordinator.

**One of the following list of courses focusing on the history or literature of religion:**
- ENG 426A - Religion and Literature
- ENG 484A - The Bible as Literature
- HIST 424 - Role of Religion in American Culture

Or some other course on the history or literature of religion approved by the department chair or program coordinator.

**One of the following list of courses focusing on the social sciences of religion:**
- AAS 420 - African-American Spirituality
- AIS 451 - Explorations in South Asian Religions
• ANTH 400C - Native Americans of the Southwest
• ANTH 411 - Buddhism and Culture
• ANTH 420 - Magic, Witchcraft, and Religion
• PSC 314 - Religion and the Political Process
• PSC 407K - Comparative Religion and Politics
• SOC 474 - Sociology of Religion
Or some other course of the social sciences of religion approved by the department chair or program coordinator.

One other upper-division course from either the previous two lists or the following.
• PHIL 402 - Medieval Philosophy
• PHIL 467 - Indian Philosophy
• PHIL 468 - Chinese and Japanese Philosophy
• PHIL 472 - Selected Topics in Religion
Or some other course focusing on religion approved by the department chair or program coordinator.

Philosophy

PHIL 101 - Introduction to Philosophy
Study of selected great philosophers or basic problems involving imaginative and critical interpretations of experience and reality.
Credits: 3

PHIL 102 - Critical Thinking and Reasoning
Introduction to the analysis and evaluation of actual arguments, to the practice of constructing logically sound arguments, and to logic as the theory of argument. Emphasizes arguments of current or general interest.
Credits: 3
Notes: Satisfies Analytical Thinking Requirement.

PHIL 105 - Evidence and Inductive Reasoning
Introductory study of concrete issues, involving the analysis of evidence, causal explanation, statistical inference, generalization, and probability. Emphasizes issues in such areas as the law, the sciences, economics, and education.
Credits: 3

PHIL 114 - Introduction to Symbolic Logic
Principles of correct reasoning, using modern symbolic techniques of propositional calculus and simple quantification.
Credits: 3

PHIL 115 - Philosophy of Death and Dying
Philosophical study of the language and theories of death, and of cultural attitudes and beliefs, including preparation for death, fear of death, and the possibility of immortality.
Credits: 3

PHIL 117 - Indian Philosophy of Mind and Mental Health
Critical discussion of philosophical psychology and practices leading to self-realization; contemporary neurophysiology and psychology, including concepts of self, mind, psychosomatic health and knowledge (Jnana).
Credits: 3
Notes: Satisfies Humanities and International Requirements.

PHIL 124 - Philosophical Traditions of Asia
Study of the nature of self, mind, knowledge, truth, logic and related themes characteristic of India, China, Japan, or any other Asian country; any one of these may be taught separately.
Credits: 3
Notes: Satisfies International and Humanities Requirement.
May be repeated to a maximum of nine credits. Same as AIS 124

PHIL 130 - Topics in Philosophy or Religion
Study of special topics in philosophy or religion taken at the introductory level (e.g., philosophy of atheism, ethics of euthanasia, abortion, etc.).
Credits: 1-3
May be repeated to a maximum of six credits.
PHIL 135 - Introduction to Ethics
Historical and critical introduction to ethics from ancient Greece and Biblical ethics to the present. Includes such topics as conscience and self-betrayal, formation of character, integrity, trust, justice, and corruption.
Credits: 3
Notes: Satisfies International and Humanities Requirement.
Same as AIS 225

PHIL 203 - Existentialism
Series of currents and thinkers in contemporary philosophy examined in order to explore the concept of human existence and life in the work of Kierkegaard, Dilthey, and Nietzsche. Other philosophers include Jaspers, Heidegger, Sartre, and Ortega Y Gasset.
Credits: 3

PHIL 205 - Science and Religion
Selected problems and episodes in the interaction between science and religion, such as the seventeenth-century condemnation of Galileo, the eighteenth-century controversy about natural religion, and the recent creation-evolution debate in the United States.
Credits: 3
Notes: Fulfills Second Year Seminar requirement.

PHIL 210 - World Religions
Critical introduction to the nature of religion. Special emphasis placed on the role of myths, symbols, ritual, religious experience, and religious institutions. Selected topics of the literature of Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, or Islam studied.
Credits: 3

PHIL 217 - Introduction to the Study of Marxism
Fundamentals of Marx’s views; their philosophical, political, and economic origins and implications; their connection to communism, Leninism, and socialism; objections byCroce, Popper, Hook, etc.
Credits: 3
Same as WMST 247

PHIL 225 - Introduction to Indian Philosophy
Introductory critical survey of the classical schools of Indian philosophy such as the Vedas, Upanishads, Bhagavad Gita, Samkhya Yoga, Nyaya, Vaisesika, Mimansa, Vedanta, Jainism, Buddhism, and such recent thinkers as Gandhi.
Credits: 3
wastes; vegetarianism; global warming.
Credits: 3

**PHIL 283 - Philosophy Milestone Experience**

Presents degree requirements, learning outcomes, and success strategies for the UNLV Philosophy B.A. Also describes the professional practice of philosophy, including career opportunities for philosophy majors.
Credits: 1
Prerequisites: Declared Philosophy major.
Notes: S/F grading only.

**PHIL 302 - Intermediate Critical Thinking and Reasoning**

Designed to extend the theory and practice of reasoned argument by the analysis, evaluation, reconstruction, and construction of extended examples drawn from such fields as philosophy, literature, religion, natural and social sciences, the arts, or contemporary affairs.
Credits: 3
Prerequisites: PHIL 102.

**PHIL 304 - Just War Theory and Military History**

Just war theory concepts, directly applied to examples from military history, designed to hone students' abilities to recognize and articulate ethical problems and to utilize the concepts to learn techniques for arriving at ethical decisions in a military environment.
Credits: 3
Prerequisites: PHIL 101 or higher.

**PHIL 310 - Great Philosophers**

Examines the works of one or more great philosophers as a means of addressing some of the central questions of philosophy.
Credits: 3
Prerequisites: Upper-division standing.
Notes: May be repeated to a maximum of nine credits.

**PHIL 311 - Professional Ethics**

Ethical problems current in the law, medicine, finance, government, journalism, and business, with particular emphasis on the classics of our ethical heritage.
Credits: 3
Prerequisites: PHIL 102.

**PHIL 320 - Philosophy of Law**

Study of the meaning of law, particularly legal reasoning, positive and normative functions of the law, and the nature of justice. Such legal theorists as Plato, Aquinas, Hobbes, Kant, Hegel, Hart, and Dworkin studied.
Credits: 3
Prerequisites: PHIL 102.

**PHIL 322 - Inductive Logic and Probability**

Examination of the methods of inductive logic. Alternative concepts of probability. Study of mathematical probability and a study of such topics as the problem of induction, confirmation, and simplicity. Relevance of inductive logic to scientific method.
Credits: 3
Prerequisites: PHIL 105.

**PHIL 330 - Computers and Culture**

Investigates how the computer revolution influences the understanding of people as rational and moral agents. Covers computation and symbol manipulation; artificial intelligence and the mechanization of reason; robotics; virtual realities; and informational complexity.
Credits: 3
Prerequisites: Upper-division standing.

**PHIL 342 - Phenomenology**

Study of the phenomenological method and its application in such fields as social sciences, aesthetics, value theory and theory of science.
Credits: 3
Prerequisites: Upper-division standing.
PHIL 345 - Health Care Ethics
Decision-making about ethics in medical contexts. Addresses intensely personal issues such as pain and suffering, death, God and family relations. Topics include euthanasia, genetic screening, distribution of resources, organ transplants and reproductive technologies.
Credits: 3
Prerequisites: Upper-division standing.

PHIL 352 - Special Topics
Intensive study of one major problem in philosophy.
Credits: 3
Prerequisites: Upper-division standing.
May be repeated to a maximum of 12 credits.

PHIL 356 - Theories of Culture
Study of the nature of culture norms, with reference to art, language, communication, religion, science, etc. Examination of the theoretical underpinnings of the study of culture in the humanities, the social sciences, and in "cultural studies."
Credits: 3
Prerequisites: Upper-division standing.
Notes: Same as SOC 356.

PHIL 401 - Ancient Philosophy
Philosophy from the pre-Socratics to Plotinus, including the Sophists, Plato, Aristotle, the Epicureans, Stoics, Skeptics, and early Christian writers.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 601*. Credit at the 600-level requires additional work.

PHIL 402 - Medieval Philosophy
Philosophy from Augustine to Nicholas of Cusa, including Boethius, Pseudo-Dionysius, John Scotus Eriugena, Anselm, Abelard, Avicenna, Moses Maimonides, Averroes, Bonaventure, Roger Bacon, Aquinas, Duns Scotus, William of Ockham.
Credits: 3
Prerequisites: Upper-division standing.

PHIL 403 - 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.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 603. Credit at the 600-level requires additional work.

PHIL 404 - Nineteenth-Century Philosophy
Study of the major philosophers and philosophical currents of the nineteenth century introduced first by Kant's critical period; the movement from Kant through Hegel's absolute idealism; other important currents, including historical materialism (Marx), positivism (Comte), utilitarianism (Bentham, Mill), and pragmatism (C.S. Peirce).
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 604. Credit at the 600-level requires additional work.

PHIL 405 - Contemporary Philosophy
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 605. Credit at the 600-level requires additional work.

PHIL 406 - American Philosophy
Development of philosophy in America from the Transcendentalists and the St. Louis School through Royce, Peirce, James, Dewey, and Santayana.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 606. 
Credit at the 600-level requires additional work.

PHIL 410 - Plato 
Analysis of selected dialogues. 
Credits: 3 
Prerequisites: Three credits of upper-division philosophy.

PHIL 411 - Aristotle 
Analysis of selected treatises. 
Credits: 3 
Prerequisites: Three credits of upper-division philosophy.

PHIL 415 - 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 Judgment, Metaphysics of Morals. 
Credits: 3 
Prerequisites: 6 credits of Philosophy. 
Notes: This course is crosslisted with PHIL 615. 
Credit at the 600-level requires additional work.

PHIL 420 - Logical Theory 
General study of the nature of argument; how it relates to reasoning, criticism, deduction, logical form, evidence, induction, and persuasion. Emphasizes both the systematic development of logical concepts and their application to actual arguments. 
Credits: 3 
Prerequisites: PHIL 114. 
Notes: This course is crosslisted with PHIL 620. 
Credit at the 600-level requires additional work.

PHIL 422 - 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, Gödel's theorems, and the limits of logicism. 
Credits: 3 
Prerequisites: PHIL 114. 
Notes: This course is crosslisted with PHIL 622. 
Credit at the 600-level requires additional work.

PHIL 425 - Philosophy of Language 
Nature, acquisition and structure of language, including such philosophical issues as meaning, reference, speech acts and semantics. 
Credits: 3 
Prerequisites: Upper-division standing. 
Notes: This course is crosslisted with PHIL 625. 
Credit at the 600-level requires additional work.

PHIL 430 - Philosophy of Science 
Study of the nature of scientific method and theory construction, and of causality, explanation, determinism, indeterminism, and probability. 
Credits: 3 
Prerequisites: Upper-division standing. 
Notes: This course is crosslisted with PHIL 630. 
Credit at the 600-level requires additional work.

PHIL 431 - 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. 
Credits: 3 
Prerequisites: Upper-division standing. 
Notes: This course is crosslisted with PHIL 631. 
Credit at the 600-level requires additional work.

PHIL 432 - Philosophy of the Social Sciences 
Study of problems confronted by social scientists such as cultural relativism, methodological individualism, whether social sciences resemble natural sciences, and the role of value judgments in research. 
Credits: 3 
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 632.
Credit at the 600-level requires additional work.

**PHIL 433 - Philosophical Psychology**
Study of the nature of human consciousness, mind, and intention, and their interrelation with perception and action with reference to relevant scientific findings of artificial intelligence and brain-behavior relationships.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 633.
Credit at the 600-level requires additional work.

**PHIL 434 - Philosophy of 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.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 634.
Credit at the 600-level requires additional work.

**PHIL 435 - Philosophy of Mind**
Study of issues such as the mind-body problems, consciousness, intention, meaning, explaining human action, artificial intelligence, and roles of imagery, language and computer-like processing in cognition.
Credits: 3
Prerequisites: Upper division standing and 3 credits of philosophy.

**PHIL 437 - Philosophy of History**
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.
Credits: 3
Prerequisites: PHIL 101, or PHIL 102 or PHIL 114, or six credits of history.
Notes: Same as HIST 496.

**PHIL 440 - Theory of Knowledge**
Study of how we know. Includes such problems as belief, evidence, perception, skepticism, and other minds.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 640.
Credit at the 600-level requires additional work.

**PHIL 441 - Metaphysics**
Study of theories of being, including such problems as substance, emanation, participation, essence, universals, process and time. Covers such philosophers as Aristotle, Plotinus, Leibniz, Whitehead, and Heidegger.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 641.
Credit at the 600-level requires additional work.

**PHIL 446 - Social and Political Philosophy**
Traditional and contemporary interpretations of the nature of society and the state, and analysis of important concepts such as liberty, justice, law, and right.
Credits: 3
Prerequisites: Upper-division standing.

**PHIL 450 - Ethical Theory**
Study of philosophical theories of human conduct and character, together with relations of ethical theory and moral action.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 650.
Credit at the 600-level requires additional work.

**PHIL 452 - Aesthetics**
Study of aesthetic standards, the nature of art and artistic creativity, and the function of art in human experience.
Credits: 3
Prerequisites: Upper-division standing.
Notes: This course is crosslisted with PHIL 652.
Credit at the 600-level requires additional work.

**PHIL 459 - Philosophy of Religion**
Study of conceptions of God and of the nature and meaning of religious experience.
Credits: 3
Prerequisites: PHIL 101 or completion of the 2 lower-division requirements for the Religious Studies Minor (PHIL 115, PHIL 124, PHIL 205, PHIL 210 or PHIL 225).
Notes: This course is crosslisted with PHIL 659.
Credit at the 600-level requires additional work.

**PHIL 467 - Indian Philosophy**
Critical study of classical Indian philosophy of the Vedic and non-Vedic schools with special reference to their epistemology, metaphysics, and ethics. Includes such topics as the philosophy of the Vedas, Upanishads, Bhagavad Gita, Samkhya Yoga, Vedanta, Jainism, Buddhism, and contemporary thinkers.
Credits: 3
Prerequisites: Upper-division standing.
Notes: Satisfies Humanities and International Requirements.

**PHIL 468 - Chinese and Japanese Philosophy**
Study of Confucianism, Taoism, the School of Names, Legalist School, Ch’an Buddhism, Shintoism, Zen Buddhism, and contemporary issues.
Credits: 3
Prerequisites: Upper-division standing.

**PHIL 469 - Gandhian Welfare Philosophy and Culture**
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.
Credits: 3
Notes: Satisfies International and Humanities Requirement. Same as SW 493.

**PHIL 472 - Selected Topics in Religion**
Intensive study of one major topic in religion.
Credits: 3
Prerequisites: Six credits in philosophy.

**PHIL 482 - Living Philosophers Colloquium**
This one credit course exposes students to the work of living philosophers working in the profession today, by having them attend a series of lectures, each given by a different professional philosopher.
Credits: 1
Prerequisites: Prior course in Philosophy.
Notes: S/F grading only.
May be repeated to a maximum of four credits.

**PHIL 483 - Senior Seminar**
Explores an instructor-chosen special topic in philosophy and discusses the overall aims of a philosophical (and a UNLV University) education in the contemporary world.
Credits: 3
Prerequisites: Declared Philosophy Major, Senior Standing
Repeatable to six credits.

**PHIL 499 - Directed Study**
Directed study in selected problems in philosophy under the supervision of one or more members of the department. Student must submit to the proposed instructor a written prospectus of some research problem.
Credits: 1-3
Prerequisites: Upper-division standing and consent of instructor.
Notes: Topic must be discussed with and approved by the instructor prior to registration.
May be repeated to a maximum of six credits.
Political Science

Degree Objectives/Learning Outcomes
The Department of Political Science seeks to instill in its graduates a variety of skills and levels of knowledge that will serve them regardless of the profession they ultimately choose. Among these objectives are:

1. To enhance their abilities to communicate in both written and oral form;
2. To enhance their ability to think through and compare competing theories and information utilizing logical and analytical means.
3. To be knowledgeable in the six subfields of the discipline including major trends, debates, theories, and methods.
4. To be prepared for graduate study in political science or a related discipline such as law.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
Political Science

Department Policies

Special Areas of Interest
American Politics
Public Policy
Public Law
International Relations/Foreign Policy
Comparative Politics
Political Theory

Course Distribution
Students must take 30 political science credits at the 300–400 level. Courses must be selected from all six areas and be distributed as follows:

1. Two courses in three areas
2. One course in a fourth, fifth and sixth area

Political Science Culminating Experience

Internships
Internships may be taken as general electives.

Advisement
For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors and minors should see a faculty advisor for career advising and for more specialized academic advising.

Political Science Major (BA)

Political Science Major- Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at liberalarts.unlv.edu/Political_Science/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-political-science.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes

1. Use critical reasoning skills for problem solving.
2. Write persuasively so as to articulate, support, and defend an argument.
3. Apply the research process in the social sciences so as to differentiate between normative and empirical perspectives, comprehend the difference between deterministic and probabilistic outcomes, and assess the strengths and weaknesses
of the major analytical approaches used in applied research (e.g., quantitative, qualitative, formal).

4. Consume and understand sophisticated information communicated through the media and scholarly writing.

5. Fulfill the obligations and expectations of citizenship in a democratic society.

6. Explain how political outcomes are shaped by the interplay between preferences and institutions.

7. Describe the multiple motivations and constraints that underlie and shape political behavior.

8. Explain how outcomes in the political and social world are affected by the multiple causal factors.

9. Describe how multiculturalism shapes international political exchanges and outcomes.

University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits

(See Note 1 below)

General Education Requirements - Subtotal: 36-40 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: 3

Distribution Requirement: Credits 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- Social Science
  - Automatically satisfied by Major requirements

- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BA in Political Science - Subtotal: 64 Credits

Social Science - Credits: 9

Fine Arts - Credits: 3

Foreign Languages/Foreign Culture - Credits: 6

Political Science Major Requirements - Credits: 16

- PSC 101 - Introduction to American Politics
- PSC 200 - Survey of Political Theory
- PSC 211 - Introduction to Comparative Politics
PSC 231 - Introduction to International Relations
PSC 302 - Research Methods in Political Science

Special Area of Interest - Credits: 27
Students select two courses from three of the following areas and one course from the remaining three areas:

American Politics:
- PSC 304 - The Legislative Process
- PSC 305 - The American Presidency
- PSC 312 - Political Parties and Interest Groups
- PSC 314 - Religion and the Political Process
- PSC 316 - Politics of Abortion
- PSC 401A - Urban Politics
- PSC 401B - Mass Media and American Politics
- PSC 401C - Money in U.S. Politics
- PSC 401D - State Politics
- PSC 401F - Public Opinion and Political Behavior
- PSC 401G - Political Campaigns and Elections
- PSC 401I - Ethnic and Minority Politics
- PSC 401J - Women in Politics
- PSC 401K - American Political Movements
- PSC 401O - U.S. Elections and Governance
- PSC 401Z - Special Topics in American Politics

Public Policy:
- PSC 320 - Policy Analysis
- PSC 321 - Analyzing Policy Issues
- PSC 403A - Natural Resource Policy
- PSC 403B - Energy Politics and Policy
- PSC 403C - Environmental Policy
- PSC 403F - U.S. Nuclear Policy: Weapons and Waste
- PSC 403I - National Security Policy
- PSC 403J - Political Ethics and Political Corruption
- PSC 403L - Morality Policy
- PSC 403N - Public Policy Around the World
- PSC 403Z - Special Topics in Public Policy

Public Law:
- PSC 330 - Constitutional Law: Governmental Powers
- PSC 332 - Judicial Process
- PSC 411A - Constitutional Law: The First Amendment
- PSC 411B - Constitutional Law: Civil Rights
- PSC 411C - Legal Theory
- PSC 411D - Constitutional Rights of Women
- PSC 411E - Constitutional Rights of the Accused
- PSC 411F - Constitutional Theory
- PSC 411H - Comparative Law
- PSC 411I - Supreme Court and Capitalism
- PSC 411Z - Special Topics in Public Law

International Relations:
- PSC 405B - International Law and Organizations
- PSC 405C - Inter-American Relations
- PSC 405DR - U.S. Foreign Policy
- PSC 405E - Foreign Policy of the Major Powers
- PSC 405J - The European Union
- PSC 405K - International Relations of the Middle East and North Africa
- PSC 405L - East Asia in World Politics
- PSC 405M - The Pacific Rim and World Politics
- PSC 405N - Regional and International Relations of Latin America and the Caribbean
- PSC 405O - Model United Nations
- PSC 405Q - Global Ecopolitics
- PSC 405R - Africa in World Politics
- PSC 405S - U.S. Strategic Intelligence
- PSC 405T - International Environmental Politics
- PSC 405U - International Security
- PSC 405V - International & U.S. Immigration Policy
- PSC 405W - New Issues in Foreign Policy
- PSC 405Y - Global Economic Governance
- PSC 405Z - Special Topics in International Relations and Foreign Policy
- PSC 406B - Politics of Globalization

PSC 405O may not be used as the only course in the International Relations area.

Comparative Politics:
- PSC 407A - Politics of European Democracies
- PSC 407B - Political Systems of East Asia
- PSC 407C - Political Systems of Russia and Post-Soviet Countries
- PSC 407D - Political Systems of the Middle East and North Africa
- PSC 407E - Politics in Latin America
- PSC 407G - Communist Political Systems
- PSC 407I - Politics and Problems in Developing Areas
- PSC 407K - Comparative Religion and Politics
- PSC 407M - The Mexican Revolution
- PSC 407N - Revolution and Reaction in Contemporary Latin America
- PSC 407O - Islamic Politics
- PSC 407Q - Political Violence and Terrorism
- PSC 407T - The Politics of Sub-Saharan Africa
- PSC 407U - Democratization
- PSC 407W - Politics of Catholicism
- PSC 407Z - Special Topics in Comparative Politics

**Political Theory:**
- PSC 371 - Ancient Political Theory
- PSC 373 - Early Modern Political Theory
- PSC 374 - Late Modern Political Theory
- PSC 375 - Recent Political Theory
- PSC 409C - American Political Thought
- PSC 409E - Political Theory and Political Education
- PSC 409H - The Problem of Socrates
- PSC 409I - Marx and Marxism
- PSC 409J - Feminist Political Theory
- PSC 409L - Medieval Political Theory
- PSC 409Z - Special Topics in Political Theory

**Political Science Culminating Experience - Credits: 18-20**
- PSC 499 - Senior Seminar or
- HON 499 - Honors Thesis/Project II

**Electives - Credits: 18-20**

At least 12 of which must be in upper-division courses.

Total Credits: 120

**Note**

1. All political science courses must be completed with a grade of C- or higher to be counted towards the degree program in Political Science.
2. PSC 200 and PSC 302 must be taken to satisfy the Milestone Experience Requirement.

**Political Science Minor**

Courses Include - Total Credits: 25

- PSC 101 - Introduction to American Politics
- PSC 200 - Survey of Political Theory
- PSC 211 - Introduction to Comparative Politics
- PSC 231 - Introduction to International Relations and
- PSC 302 - Research Methods in Political Science

In addition, students must take any three upper-division (300–400 level) PSC courses (9 credits) from among the six areas.

**Political Science**

- PSC 100 - Nevada Constitution
  For students who have met the U.S. Constitution requirement with a course that includes no information about Nevada. Includes a brief history of Nevada prior to statehood, commentary on the Nevada Constitution, and analysis of the political, economic, and social characteristics of the state today.
  Credits: 1
  Notes: Satisfies Nevada Constitution Requirement.

- PSC 101 - Introduction to American Politics
  A survey of American national, state and local governments; includes review of Nevada's constitution, government and contemporary issues.
Credits: 4
Notes: Satisfies the United States and Nevada Constitutions Requirement.

PSC 200 - Survey of Political Theory
Survey of political theory from Plato to contemporary times.
Credits: 3
Notes: Satisfies Social Science Requirement.

PSC 211 - Introduction to Comparative Politics
Major conceptual, methodological, and theoretical tools in comparative politics. Distinguishes between developed and developing systems, and examines contemporary issues of the developed systems and problems of underdevelopment.
Credits: 3
Notes: Satisfies International and Social Science Requirement.

PSC 231 - Introduction to International Relations
General introductory course to the field of foreign policy and international politics. Mainly theoretical in nature but such concepts as revolution, economic and political development, and nationalism also considered.
Credits: 3
Notes: Satisfies International and Social Science Requirement.

PSC 302 - Research Methods in Political Science
Focuses on research design and collection and analysis of empirical data; utilization of library and electronic media. Includes methodological debates within the social sciences; covers questions of measurement, sampling, and data analysis. Equips students to conduct research and to evaluate research critically.
Credits: 3
Prerequisites: PSC 101, PSC 200, PSC 211, PSC 231 and sophomore or junior standing only.
Notes: Satisfies Social Science Requirement.

PSC 304 - The Legislative Process
Study of the legislative process, with special emphasis on the U.S. Congress. Topics covered include internal distribution of power (parties and committees), external influences (the electorate, the executive, interest groups), and current problems (ethics, accountability, and campaign financing).
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies the United States Constitution and Social Science Requirement.

PSC 305 - The American Presidency
Study of the American presidency from 1787 to the present. Analysis of the powers of the President and the relationship of the office to the American political system.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 312 - Political Parties and Interest Groups
Study of major political parties from a historical perspective, with focus on their differing platforms, memberships, and strategies. Types of interest groups and their impact on the policy-making process also analyzed.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 314 - Religion and the Political Process
Examines role of religion in American politics. Topics include constitutional issues of church-state relations, effect of religious beliefs and memberships on political behavior, and normative issues concerning compatibility of obligations of democratic citizenship and religious discipleship.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.
PSC 316 - Politics of Abortion
Examines issue of abortion in American politics. Topics include normative issues regarding rights of the fetus, constitutional issues relating to reproductive freedom, the role of religion in abortion politics, political behavior of pro-life and pro-choice activists, and behavior and attitudes of the mass public.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 320 - Policy Analysis
Analysis of the political and economic values and processes involved in the making of public policy in the United States today.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 321 - Analyzing Policy Issues
Contemporary public policy issues, such as environmental protection, abortion, welfare, legalization of drugs, health care, gun control, taxes, etc. Background of policy issues and skills in analyzing and evaluating arguments on different sides of each issue.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 330 - Constitutional Law: Governmental Powers
Case approach to the interpretation of the United States Constitution, with emphasis on powers of the Judiciary, Congress, and the Presidency. Attention also devoted to the Commerce Clause and federal-state relations.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies the United States Constitution and Social Science Requirement.

PSC 332 - Judicial Process
Analysis of the political context of the judicial process. Topics include the structure and function of American court systems, court staffing, judiciary, roles of lawyers and other actors in the American legal system.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 371 - Ancient Political Theory
Critical study of the major political thinkers before the Christian era. Readings may include Thucydides, Plato, Xenophon, Aristotle, and Cicero.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies Social Science Requirement.

PSC 373 - Early Modern Political Theory
Critical study of the major thinkers from the Renaissance until Rousseau. Readings may include Machiavelli, Luther, Calvin, Hooker, Bacon, Grotius, Hobbes, Descartes, Milton, Spinoza, Locke, Montesquieu, and Hume.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies Social Science Requirement.

PSC 374 - Late Modern Political Theory
Critical study of the major political thinkers from Rousseau until the twentieth century. Readings may include Rousseau, Kant, Blackstone, Smith, Paine, Burke, Bentham, Hegel, J.S. Mill, Marx, and Nietzsche.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies Social Science Requirement.

PSC 375 - Recent Political Theory
Critical study of the major political thinkers and main currents in political thought in the twentieth century. Readings may include Dewey, Husserl, Heidegger, communists, and fascists.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies Social Science Requirement.

**PSC 400A - Elements of Survey Research**
Covers all survey methods from questionnaire design to implementation to analysis using statistical software. Focuses on designing academic survey projects and using survey methods for graduate research projects. Students work on original research design adapted from the class.
Credits: 3
Prerequisites: PSC 101, PSC 302
Notes: Satisfies Social Science Requirement.

**PSC 400E - Politics in Literature**
Examines American politics or comparative politics, international relations, or political theory through literary genres other than the philosophical treatise or political essay (e.g., novel, poetry, play).
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

**PSC 400F - Politics in Film**
Analysis of the political film. Themes treated include political power, corruption, war, revolution, propaganda, political socialization, and participation.
Credits: 3
Prerequisites: PSC 101
Notes: Same as FILM 409.

**PSC 401A - Urban Politics**
Study of formal and informal structures and workings of local, urban, and metropolitan society and politics. Examines variety of issues related to local and regional political process, including governing capacity, local democracy and representation, and economic and racial inequality.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

**PSC 401B - Mass Media and American Politics**
Overview of theoretical and applied literature on mass political communication with attention to historical evolution and legal underpinnings of mass media roles in democratic governance. Focus on types of and interactions between mass media and political actors as well as media effects on public opinion.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

**PSC 401C - Money in U.S. Politics**
Survey of theoretical and applied debates over campaign financing and reform with attention to historical development, legal underpinnings, and principle participants in American national and state systems of campaign finance. Develops students' capacities to analyze and interpret patterns and effects of campaign finance along with implications for democratic government.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

**PSC 401D - State Politics**
Political, constitutional, fiscal, and regulatory aspects of state and local government in the American system, with particular emphasis with selected readings and discussions on campaigns and elections.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies the Nevada Constitution and Social Science Requirement.

**PSC 401F - Public Opinion and Political Behavior**
Study of factors which shape basic political attitudes and circumstances which result in different kinds of political behavior. Political socialization process, both its agents and its consequences, also explored.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.
PSC 401G - Political Campaigns and Elections
Participating in and analyzing an election campaign of choice, students have an opportunity to integrate practical experience with selected readings and discussions on campaigns and elections.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies the Multicultural and Social Science Requirement.

PSC 401I - Ethnic and Minority Politics
Examines the role of subcultures in the American political process. Groups studied include traditionally recognized minorities (women, Blacks, Native Americans) as well as white ethnics, Asians, and various Latin-based groups. Focuses on mobilization efforts, policy concerns and obstacles and accomplishments.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 401J - Women in Politics
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.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 401K - American Political Movements
Overview of the theoretical and applied literature on mass-based political movements applied to the civil rights, students, women's, peace, and environmental movements.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 401O - U.S. Elections and Governance
This course investigates the causes and consequences of the growing chasm between contemporary electoral politics and the capacity for governance in the United States and evaluates potential reforms to each of those processes.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 401Z - Special Topics in American Politics
May be repeated to a maximum of six credits with different topics.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 403A - Natural Resource Policy
Examines environmental policy primarily as it relates to America's 700 million acres of public land—nearly one-third of the entire country. Focuses on the tensions between extractive uses such as mining and timbering on the one hand and conservation goals on the other. Substantial attention paid to the subject of water: The law and politics of who gets it and who does not.
Credits: 3
Prerequisites: PSC 101 or NRES 411
Notes: Satisfies Social Science Requirement.

PSC 403B - Energy Politics and Policy
Study of the impact of energy and its exploitation in political, economic, social, and ecological areas. Primary attention directed at coal, oil, natural gas, and nuclear power. In addition, such exotic energy sources as thermal, wind, fusion, and synthetic fuels considered.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.
PSC 403C - Environmental Policy
An overview of key elements of U.S. environmental policy. Includes an assessment of domestic environmental problems and related environmental legislation. Also focuses on issues of global sustainability and value questions that guide environmental policy-making.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 403F - U.S. Nuclear Policy: Weapons and Waste
Examines the history and political consequences of the U.S. development of the atomic bomb. Traces events from 1939 to present, and addresses current problems of atomic litigation, nuclear waste disposal, and nuclear disarmament. Analyzes life in the shadow of the mushroom cloud.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 403I - National Security Policy
Primarily focuses upon national defense. Covers such topics as the defense establishment, intelligence, strategic theory concepts, strategic weapons systems, war, and war prevention.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 403J - Political Ethics and Political Corruption
Study of political ethics and corruption in the U.S. Attention given to the concepts themselves and to how they have evolved over time.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 403L - Morality Policy
This course is intended to provided critical analyses of the legal, institutional, and behavioral issues underlying issues of public policy which involve questions of personal or social morality. The Politics of Church-state relations, abortion, capital punishment, gun control, obscenity and pornography, and gay rights will be considered.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 403N - Public Policy Around the World
The course comparatively examines the administrative politics of a wide variety of advanced democracies.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 403Z - Special Topics in Public Policy
May be repeated to a maximum of six credits with different topics.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 405B - International Law and Organizations
International legal system, the United Nations, and other international organizations such as E.C.O.S.O.C. and W.H.O.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies International and Social Science Requirement.

PSC 405C - Inter-American Relations
Considers changing relationships among states in the Americas. Covers early interventionism by the U.S., the Cold War period, and the post-Cold War era. Topics include economic development programs, counterinsurgency assistance, immigration policy, the drug "war," the environment, and trade.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies International and Social Science Requirement.
**PSC 405DR - U.S. Foreign Policy**
Theoretical and historical analysis of the formulation and implementation of American foreign policy. Topics include the institutionalization of the cold war, American adaptation to the post-cold war world, and current foreign policy issues facing the United States.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

**PSC 405E - Foreign Policy of the Major Powers**
Systematic and comparative study of the foreign policies of the major powers in light of the general world situation and the internal forces and problems of each country.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

**PSC 405J - The European Union**
Examines the evolution of economic and political integration and the potential future steps toward ever closer union. Institutions, actors, and policies of the European Union analyzed with an emphasis on democracy and tensions between domestic and European interests.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies International and Social Science Requirement.

**PSC 405K - International Relations of the Middle East and North Africa**
Develops a framework for the study of international relations of the Middle East and North Africa. Examines domestic, regional, and global determinants of external politics in this region; analyzes great powers' interests and policies; and studies intraregional problems.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies International and Social Science Requirement.

**PSC 405L - East Asia in World Politics**
Examines the complicated forces at work in international relations of East Asia. Analyzes foreign policies of the major world powers towards East Asia in the postwar era. Emphasis on the important bilateral relationships in the region.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies International and Social Science Requirement.

**PSC 405M - The Pacific Rim and World Politics**
Examines the Pacific Rim and analyzes the cultural, economic, political, and social issues in the region. Special emphasis on how cultural, ethnic, and religious diversities affect independence and interdependence of the region.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies International and Social Science Requirement.

**PSC 405N - Regional and International Relations of Latin America and the Caribbean**
Examination of the regional and international relations of Latin America and the Caribbean. Recent theories of IR, regional economic integration, human rights and democratization, and security issues.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.
Same as LAS 405N

**PSC 405O - Model United Nations**
Examines and practices how the United Nations, the world's largest international organization, works. Studies the mandates and functions of various UN committees and special agencies. Equips students with the unique expertise to represent a country and adopt resolutions to solve global issues through the actual participation in Model UN conferences.
Credits: 3
PSC 405P - Global Political Economy
Politics of international economic relations. Major theories of international political economy are examined and applied to the study of colonialism, dependency, international trade, official development assistance, foreign direct investment, globalization, regional integration, labor, and the environment.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 405Q - Global Ecopolitics
Analysis of demographic, ecological, economic and technological security challenges emerging in an era of deepening globalization, including the challenges of population growth and graying, adequacy of world fuel reserves, challenges of global warming, and issues associated with the worldwide diffusion of new technologies.
Credits: 3
Prerequisites: PSC 231 or URST 205
Notes: Satisfies Social Science Requirement.

PSC 405R - Africa in World Politics
Examines Africa's place in world politics. Relationships between African countries and international organizations and countries of other world regions as well as relationships among African countries. Explores changing nature of Africa's state system and challenges confronting this system.
Credits: 3
Prerequisites: PSC 231
Notes: Same as AAS 405R. Satisfies International and Social Science Requirement.

PSC 405S - U.S. Strategic Intelligence
Overview of U.S. strategic intelligence, with emphasis on U.S. intelligence community and use of intelligence by policy- and decision-makers. Covers various types of intelligence, covert action, counterintelligence, congressional and judicial oversight, and issues related to intelligence and civil liberties.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 405T - International Environmental Politics
Theories of international politics applied to global and regional environmental problems. Addresses the politics of how environmental problems are defined and identified by scientists and activists and the various political solutions proposed. Substantive topics include biodiversity, climate change, trade and the environment, sustainable development, environmental refugees, biosafety, and energy.
Credits: 3
Prerequisites: PSC 231 or URST 205
Notes: Satisfies Social Science Requirement.

PSC 405U - International Security
This course will examine the economic, political, and social causes and conditions of conflict within and between states across the globe. The course will also utilize threats to international security in order to explore the different methods of preventing, managing, and settling issues of terrorism and war.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 405V - International & U.S. Immigration Policy
Exam of political and policy implications of international migration, focusing on the debates surrounding immigration to the U.S. and the international refugee crisis. Topics include political responses to immigration policy making, foreign policy/transnational initiatives, post-9/11 national security policy making, bilingual education policies, affirmative action, and anti-poverty policy.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.
PSC 405W - New Issues in Foreign Policy
Current and emerging situations in the foreign policy of countries, such as migration, environmental concerns, transnational crime, and domestic and foreign conflict. This course is part of the Brookings Public Policy minor.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 405Y - Global Economic Governance
Examines the politics of governance in the global economy focusing on major actors, ideas, and social forces. Topics include theories of cooperation, governance of global institutions, and contemporary debates about reforming global institutions.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 405Z - Special Topics in International Relations and Foreign Policy
May be repeated to a maximum of six credits with different topics.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies International and Social Science Requirement.

PSC 406A - Women and International Politics
Examination of the evolving rights, roles, and status of women in a variety of social and political contexts, drawing upon diverse historical and contemporary political settings. Topics include conflict, terrorism and security, globalization and forced prostitution, reproductive rights, sexual violence, and perspectives on gender equality and empowerment.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 406B - Politics of Globalization
Explores the political economy of globalization and how globalization is hypothesized to influence global institutions, national governments, civil society, international norms, and transnational capital. Emphasis is on how various theories conceptualize the spatiotemporal bounds of globalization and evolving on problems of domestic and global governance attributed to globalization.
Credits: 3
Prerequisites: PSC 231
Notes: Satisfies Social Science Requirement.

PSC 407A - Politics of European Democracies
Examines the theory and practice of politics of European democracies in comparative context. Emphasis will be on issues, social movements, parties, elections, institutions, and governance at the national level.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies International and Social Science Requirement.

PSC 407B - Political Systems of East Asia
Examines the political development and governmental institutions of East Asia. Analyzes how the contemporary political systems in the region have evolved and how they work. Special emphasis on political culture and policy making.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies International and Social Science Requirement.
Same as AIS 407B

PSC 407C - Political Systems of Russia and Post-Soviet Countries
Examines the political systems of Russia and post-Soviet countries, emphasizing developments in political culture, institutions, and governance. Comparative study of the transition of these countries from communism to their current political systems.
Credits: 3
Prerequisites: PSC 211  
Notes: Satisfies International and Social Science Requirement.

**PSC 407D - Political Systems of the Middle East and North Africa**  
Methodological and theoretical tools for the study of developing political systems. Provides students with an in-depth analysis of the political institutions, processes, and policies in the Muslim Middle East and North Africa.  
Credits: 3  
Prerequisites: PSC 211  
Notes: Satisfies International and Social Science Requirement.

**PSC 407E - Politics in Latin America**  
In-depth study of political concepts and events in Latin America. Examines how politicians have used populism, corporatism, authoritarianism, and democracy to channel and repress political participation. Evaluates competing explanations of rise of military regimes. Considers challenges of democratization, such as building political institutions, political parties, and civic society.  
Credits: 3  
Prerequisites: PSC 211  
Notes: Satisfies International and Social Science Requirement.

**PSC 407G - Communist Political Systems**  
Ideology of Marxism-Leninism in different historical, cultural, and geographic settings. Compares and contrasts the setting, rise to power, consolidation, and functioning of former and present communist political systems.  
Credits: 3  
Prerequisites: PSC 211  
Notes: Satisfies Social Science Requirement.

**PSC 407I - Politics and Problems in Developing Areas**  
Explores how developing areas, or Third World, constitute a major portion of the world's population while sharing in a much smaller fraction of its wealth and productivity. Role of the political process in the attempt of a formerly traditional society to come to terms with modernity and better the lot of its citizens. Relationship between politics and the economic and social dimensions of the development.  
Credits: 3  
Prerequisites: PSC 211  
Notes: Satisfies International and Social Science Requirement.

**PSC 407K - Comparative Religion and Politics**  
Various roles played by religious leaders and believers in a variety of national and international systems. Importance of religious markets in particular settings, the role of religion as a source of regime legitimacy or opposition, and the importance of religious doctrine.  
Credits: 3  
Prerequisites: PSC 211  
Notes: Satisfies Social Science Requirement.

**PSC 407M - The Mexican Revolution**  
Study of the origins, major events and personalities, and aftermath of the Mexican Revolution of 1910, tracing Mexico’s political development to modern times.  
Credits: 3  
Prerequisites: PSC 211  
Notes: Same as HIST 476. Satisfies International and Social Science Requirement.

**PSC 407N - Revolution and Reaction in Contemporary Latin America**  
Study of major political movements, leaders, and trends in Latin America from the Cuban Revolution to the present.  
Credits: 3  
Prerequisites: PSC 211  
Notes: Same as HIST 471. Satisfies International and Social Science Requirement.
PSC 407O - Islamic Politics
Examines classical and contemporary Islamic political thought and the impacts of Islam on present institutions and practices in Muslim societies.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies International and Social Science Requirement.

PSC 407Q - Political Violence and Terrorism
Origins, development, and consequences of political violence on both the domestic and international level. Problems of revolution, war, and terrorism as the means used for the achievement of political goals examined.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies Social Science Requirement.

PSC 407T - The Politics of Sub-Saharan Africa
Explores the nature of political development in the states of sub-Saharan Africa. Examines historical, economic and social forces that have shaped political change and conflict in Africa. Special attention to democratization process in Africa.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies International and Social Science Requirement.

PSC 407U - Democratization
Focuses on democratization. Explores how countries transition to democracy. Process by which democracy becomes consolidated. Assesses the state of and prospects for the consolidation of democracy in the world today.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies International and Social Science Requirement.

PSC 407W - Politics of Catholicism
Provides an understanding of the political role played by the Catholic Church in a variety of national, regional, and international settings. A major theme of the course will be the interaction of "objective" moral truth (as defined by the Holy See) and the politics of diverse local and national contexts.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies Social Science Requirement.

PSC 407Z - Special Topics in Comparative Politics
May be repeated to a maximum of six credits with different topics.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies Social Science Requirement.

PSC 409C - American Political Thought
Critical study of the major thinkers and writings from the colonial period to the present, such as The Federalist Papers and Tocqueville, that contribute to an understanding of American political principles.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies the United States Constitution and Social Science Requirement.

PSC 409E - Political Theory and Political Education
Theoretical analysis of education as a problem and function of political life. Particular attention paid to the relationships between education, the liberal arts, citizenship, and civic virtue.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies the Social Science Requirement.

PSC 409H - The Problem of Socrates
Plato's Socrates, the various dimensions of his way of life. Also ancient and modern critiques of Socrates from Aristophanes' Clouds to Socrates' place in the philosophies of Hegel, Kierkegaard, and Nietzsche. Concludes with Kierkegaard's contrast between Socrates and Christ, and with Nietzsche's contrast between Socrates and Dionysus.
PSC 409I - Marx and Marxism
Critical study of the political theories of Karl Marx, Friedrich Engels, and selected theorists in the Marxist tradition.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies Social Science Requirement.

PSC 409J - Feminist Political Theory
Important schools of feminist thought studied: liberal feminism, Marxist feminism, radical feminism, ecofeminism, psychoanalytic feminism, gender feminism, existentialist feminism, postmodern feminism, and multicultural and global feminism. Studies thinkers who provide feminism with its philosophical foundations.
Credits: 3
Prerequisites: PSC 200
Same as WMST 409J

PSC 409L - Medieval Political Theory
Critical study of the major political thinkers and main currents in political thought from the rise of Christianity to the Renaissance.
Credits: 3
Prerequisites: PSC 200
Notes: Satisfies Social Science Requirement.

PSC 409Z - Special Topics in Political Theory
May be repeated to a maximum of six credits with different topics.
Credits: 3
Prerequisites: PSC 200.
Notes: Satisfies Social Science Requirement.

PSC 411A - Constitutional Law: The First Amendment
Case approach to constitutional problems in the First Amendment. Topics covered include speech, press, association, and free exercise and establishment of religion.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 411B - Constitutional Law: Civil Rights
Case approach to civil rights issues including discrimination based on race, sex, sexual orientation, and other factors; affirmative action; and issues of voting and representation rights.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 411C - Legal Theory
Analysis of the concept of law, with special emphasis upon the nature of law, sovereignty, legal validity, the relations between law, politics, morality, and economics.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

PSC 411D - Constitutional Rights of Women
Case approach to legal issues concerning abortion, contraception, sterilization, penalties of pregnancy, voting, access to professions, equal pay, and various forms of political, economic, and social discrimination. Key constitutional provisions considered include judicial review, due process, equal protection, privileges and immunities, and the right to privacy.
Credits: 3
Prerequisites: PSC 101
Notes: Same as WMST 411D. Satisfies the Multicultural and Social Science Requirement.
Same as WMST 411D

PSC 411E - Constitutional Rights of the Accused
Analysis of the legal rights of the accused in the context of the American legal system and political process. Emphasizes constitutional issues involved as well as special problems posed by political conflicts.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

**PSC 411F - Constitutional Theory**
Examines the different approaches to the interpretation of the U.S. Constitution including interpretivism, non-interpretivism, intentionalism, originalism, plain words, strict, and broad construction.
Credits: 3
Prerequisites: PSC 330 or PSC 411A or PSC 411C or PSC 411D
Notes: Satisfies Social Science Requirement.

**PSC 411H - Comparative Law**
Examination of concepts, methods, and contemporary issues in comparative law.
Comparatively analyzes the origins, processes, structures, and codes in the British, French, German, American, Judaic, and Islamic legal systems and traditions.
Credits: 3
Prerequisites: PSC 211
Notes: Satisfies Social Science Requirement.

**PSC 411I - Supreme Court and Capitalism**
A cases and materials approach to the role of the United States Supreme Court in cases dealing with the economy. Cases arising mainly out of the Commerce, General Welfare, Taxing and Spending, Contracts, Due Process and Takings clauses will be covered.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

**PSC 411Z - Special Topics in Public Law**
May be repeated to a maximum of six credits with different topics.
Credits: 3
Prerequisites: PSC 101
Notes: Satisfies Social Science Requirement.

**PSC 480A - Independent Study and Research in Political Science**
Program of independent reading and research in political science, to be selected in consultation with an instructor before registration.
Credits: 1-3
Prerequisites: PSC 101 and PSC 200 or PSC 211 or PSC 231 and junior or senior standing.
Notes: Satisfies Social Science Requirement.
May be repeated to a maximum of six credits.

**PSC 490A - Internship: Administrative**
Students serve for a semester in a public agency and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty.
Credits: 1-6
Prerequisites: PSC 101 and sophomore, junior, or senior standing and PSC major or PSC 101 and junior or senior standing.
May be repeated for a maximum of six credits.

**PSC 490B - Internship: Legislative**
Students serve for a semester in a legislature and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty.
Credits: 1-6
Prerequisites: PSC 101 and junior or senior standing.
May be repeated for a maximum of six credits.

**PSC 490C - Internship: Campaign**
Students serve for a semester on a campaign and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty.
Credits: 1-6
Prerequisites: PSC 101 and sophomore, junior, or senior standing and PSC major
or
PSC 101 and junior or senior standing.
May be repeated for a maximum of six credits.

**PSC 490D - Internship: Legal**
Students serve for a semester in a law office and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty.
Credits: 1-6
Prerequisites: PSC 101 and sophomore, junior, or senior standing and PSC major or PSC 101 and junior or senior standing.
May be repeated for a maximum of six credits.

**PSC 490E - Internship: Political News Broadcast**
Students serve for a semester with a television or radio station and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty.
Credits: 1-6
Prerequisites: PSC 101 and sophomore, junior, or senior standing and PSC major or PSC 101 and junior or senior standing.
May be repeated for a maximum of six credits.

**PSC 499 - Senior Seminar**
Focuses on a topic of the instructor’s choosing. Students will select their topic for a major research paper or a series of papers on a related theme.
Credits: 3
Prerequisites: PSC 302 and senior standing.
Psychology

Purpose and Focus
The Department of Psychology undergraduate curriculum provides a broad and balanced treatment of psychology. Upon completion of this course of study, students will have received upper-division instruction in at least five of the many sub-areas of psychology. Thus, they will have knowledge of the diversity of ideas and activities that constitute the field. This curriculum is designed to meet the needs of both those students seeking a liberal arts undergraduate degree and those intending to enter advanced training in psychology, education, medicine, or related fields.

Degree Objectives/Learning Outcomes
The Psychology degree objectives are:

1. Students will demonstrate broad knowledge of the major theories and findings from the various sub-disciplines of psychological science.
2. Students will be able to conduct and interpret the types of statistical analyses used in psychological research.
3. Students will demonstrate an understanding of the methods of psychological research by proposing research studies and critiquing methods that are used in psychological research studies.
4. Students will present their knowledge of psychological theory, statistical analyses, and research methods through clear written (APA-style research paper) and verbal (oral presentation) communication.
5. Students will demonstrate in-depth knowledge of the research theories and findings in the foundation areas of study in psychological science (e.g., Physiological, Perception, Cognition, Development, Abnormal, and Social).

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
Psychology

Advisement
Students are strongly encouraged to complete PSY 101 and PSY 200 as early as possible. PSY 101 will provide students a broad overview of the field of psychology, and PSY 200 will explain to students what they will learn as a psychology major, including possible career opportunities in psychology. In addition to these two courses, students are strongly encouraged to take PSY 210 and PSY 240 early because these courses provide a foundation for understanding psychological research and serve as prerequisites for many other courses in the major. Students wishing to pursue graduate training in psychology are encouraged to obtain research experiences by working in a faculty member’s research laboratory (e.g., PSY 496, PSY 497, and PSY 498). For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors should consult a faculty advisor in the department for career advising and for more specialized academic advising.

Psychology Major (BA)

Psychology Major- Bachelor of Arts (BA)
Please see the UNLV College of Liberal Arts, Psychology Department web page at psychology.unlv.edu/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-psychology.

Please see advising information at the UNLV Wilson Advising Center at www.liberalarts.unlv.edu/WAC/.
Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Students will demonstrate broad knowledge of the major theories and findings from the various sub-disciplines of psychological science.
2. Students will be able to conduct and interpret the types of statistical analyses used in psychological research.
3. Students will demonstrate an understanding of the methods of psychological research by proposing research studies and critiquing methods that are used in psychological research studies.
4. Students will present their knowledge of psychological theory, statistical analyses, and research methods through clear written (APA-style research paper) and verbal (oral presentation) communication.
5. Students will demonstrate in-depth knowledge of the research theories and findings in the foundation areas of study in psychological science (e.g., Physiological, Perception, Cognition, Development, Abnormal, and Social).

University Graduation Requirements
- Please see Graduation Policies for complete information.

Psychology Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 38-45 Credits

First-Year Seminar - Credits: 3

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 3

Distribution Requirement - Credits: 19-20

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - PHIL 101 - Introduction to Philosophy
  - 3 additional humanities credits outside of philosophy
  - One course in fine arts- 3 credits

- Social Science:
  - Automatically satisfied by Major requirements

- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from Life and Physical Science
    - One of which must include either:
      - BIOL 100 - General Biology for Non-Majors
      - BIOL 189 - Fundamentals of Life Science
      - BIOL 196 Principles of Modern Biology I
  - Analytical Thinking
    - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International - (0-6 due to double dip)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of
approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.

Major Requirements - BA in Psychology - Subtotal: 54 Credits

(see note 1 below)

**Social Science - Credits: 9**
- SOC 101 - Principles of Sociology
- ANTH 101 - Introduction to Cultural Anthropology
and 3 additional social science credits from a different field.

**Fine Arts - Credits: 3**

**Foreign Culture/Foreign Language - Credits: 6**

**Psychology Major Requirements - Credits: 36**
(see note 2 below)
- PSY 101 - General Psychology
- PSY 200 - Introduction to the Psychology Major
- PSY 210 - Introduction to Statistical Methods
- PSY 240 - Research Methods
- PSY 490 - Capstone in Psychology

**Five of the six core courses**
- PSY 303 - Foundations of Physiological Psychology
- PSY 305 - Foundations of Perception
- PSY 316 - Foundations of Cognitive Psychology
- PSY 330 - Foundations of Developmental Psychology: Infant and Child
- PSY 334 - Foundations of Developmental Psychology: Adolescence and Adulthood
- PSY 341 - Foundations of Abnormal Psychology
- PSY 360 - Foundations of Social Psychology

Psychology Electives - Credits: 9 (must be upper division: 300-400)

Electives - Total Credits: 21-28

Total Credits: 120

Notes

1. No more than 11 of the 36 required credits in the required psychology courses may be lower division (100-200). **All psychology course work must be completed with a grade of C- or higher.**
2. The technology requirement will be satisfied through the completion of required courses, PSY 210 and PSY 240.

**Neuroscience Minor**

Neuroscience is a scientific discipline that investigates the organization, development, and function of the nervous system. This research focuses on topics ranging from mechanisms responsible for basic neuronal function to investigations of behavior and neurological/psychiatric disorders. The courses are designed to give students a strong foundational and broad exposure to the neuroscience area.

Neuroscience Minor - Total Credits: 19

**Required Courses - Credits: 7**
No course in which a grade of C- or lower is earned may be applied to this minor.

- PSY 303 - Foundations of Physiological Psychology
- BIOL 196 - Principles of Modern Biology I

**Electives** (choose 12 credits from the following courses)
- PSY 305 - Foundations of Perception
- PSY 422 - Psychopharmacology of Abused Drugs
- PSY 424 - Neurobiology of Learning and Memory
- PSY 425 - Cognitive Neuroscience
- PSY 428 - Cellular and Molecular Approaches to Behavior
- BIOL 304 - Molecular Genetics
- BIOL 445 - Cell Physiology
- PSY 446 - Human Neuropsychology
- BIOL 475 - Neurobiology
Psychology Minor

Courses Include - Total Credits: 22

PSY 101 - General Psychology
PSY 200 - Introduction to the Psychology Major
PSY 210 - Introduction to Statistical Methods
PSY 240 - Research Methods

and 11 upper-division (300–400 level) credits in psychology.

Psychology

PSY 101 - General Psychology
Introduction to psychology including introductory treatment of sensation-perception-cognition, physiological psychology, learning, personality, development, social psychology, assessment, and history.
Credits: 3

PSY 200 - Introduction to the Psychology Major
An introduction to the psychology major, including an overview of topics in psychology, careers in psychology, and preparation for advanced study such as graduate school.
Credits: 1
Prerequisites: PSY 101.
Notes: S/F grading only.

PSY 201 - Development Across the Lifespan
Overview of developmental psychology from a lifespan perspective, including physical, mental, social and emotional changes at all stages of life from conception to death.
Credits: 3
Prerequisites: PSY 101.

PSY 210 - Introduction to Statistical Methods
Study and practice with statistical methods especially useful in the presentation and interpretation of psychological data.
Credits: 4
Prerequisites: PSY 101 and MATH 96, MATH 124, or MATH 126 or satisfactory placement on the mathematics pretest.

PSY 240 - Research Methods
Critical examination of research methods in psychology, including experimental and quasi-experimental designs, correlational methods, clinical research techniques, natural observation, survey methods, and the phenomenological approach.
Credits: 3
Prerequisites: PSY 200 and (PSY 210 or CRJ 302 or ECON 261 or KIN 200 or STAT 152 or STAT 391 or STAT 491). All prerequisites must be completed with a grade of C- or better.

PSY 264 - African American Psychology
Examines current psychological research and literature on the cultural, societal, historical, and political influences on the psychological well-being and characteristics of African Americans.
Contextual issues include world views, values, beliefs, minority status, slavery, and oppression.
Credits: 3
Prerequisites: ENG 101.
Notes: Same as AAS 264.

PSY 299 - Special Topics
Exploration of special topics of current interest.
Credits: 1-6
May be repeated to a maximum of six credits.

PSY 303 - Foundations of Physiological Psychology
Introduction to the study of biological bases of behavior. The course covers the physiological mechanisms and behavior of complex organisms.
Topics include sensory processes, sleep, learning, memory, and neurological disorders.
Credits: 3
Prerequisites: PSY 101 and either BIOL 189 or BIOL 196 or higher.

**PSY 305 - Foundations of Perception**
An introduction to the study of psychophysics, sensory systems, and perceptual phenomena and theories.
Credits: 3
Prerequisites: PSY 101.

**PSY 308 - History of Psychology**
Study of the history of psychology.
Credits: 3
Prerequisites: PSY 101.

**PSY 316 - Foundations of Cognitive Psychology**
An introduction to the theories and concepts of cognitive psychology, including attention, pattern recognition, memory, and language.
Credits: 3
Prerequisites: PSY 101.

**PSY 330 - Foundations of Developmental Psychology: Infant and Child**
An introduction to the study of human development from conception to middle childhood. Topics include physical, cognitive, and social/emotional development.
Credits: 3
Prerequisites: PSY 101.

**PSY 334 - Foundations of Developmental Psychology: Adolescence and Adulthood**
Study of human development from adolescence through adulthood.
Credits: 3
Prerequisites: PSY 101.

**PSY 341 - Foundations of Abnormal Psychology**
An introduction to the psychology of abnormal behavior stressing symptomatology, etiology, dynamics, and problems in diagnosis.
Credits: 3
Prerequisites: PSY 101.

**PSY 342 - Forensic Psychology**
Principles of forensic psychology covering topics such as perspectives of criminal behavior, law enforcement, eyewitnesses, and the manner in which forensic psychologists are involved in the justice system.
Credits: 3
Prerequisites: PSY 101.

**PSY 350 - Introduction to Industrial and Organizational Psychology**
Application of psychology within government, business, and industry. Areas presented include personnel management, morale, organizational behavior, and human engineering.
Credits: 3
Prerequisites: PSY 101.

**PSY 360 - Foundations of Social Psychology**
An introduction to social and group factors affecting individual behavior. Topics include social perception, opinions, attitudes, influence processes, and small group behavior.
Credits: 3
Prerequisites: PSY 101.

**PSY 361 - Healthcare Provider Skills**
Preparation of future healthcare professionals for competency in modern service delivery that includes understanding social determinants of health, working with culturally diverse patient populations, and improving relational skills.
Credits: 3
Prerequisites: PSY 101.

**PSY 406 - Intermediate Statistics**
Theory and application of parametric and non-parametric statistical inference, including special correlation methods.
Credits: 3
Prerequisites: PSY 210 and PSY 240. Minimum C-grade in PSY 240.
**PSY 412 - Motivation and Emotion**
Study of motivation and emotions in humans and animals, including arousal theories, reinforcement, and the physiological and cognitive bases of motivation and emotion.
Credits: 3
Prerequisites: PSY 210, PSY 240 and PSY 360. Min C- grade in PSY 240 and PSY 360.

**PSY 417 - Psycholinguistics**
Examination of speech perception and language acquisition.
Credits: 3
Prerequisites: PSY 210, PSY 240 and PSY 316. Min C- grade in PSY 240 and PSY 316.

**PSY 420 - Psychology of Learning**
Analysis of the principles, theories, and phenomena of learning.
Credits: 3
Prerequisites: PSY 210, PSY 240 and PSY 316. Min C- grade in PSY 240 and PSY 316.
Notes: This course is crosslisted with PSY 620. Credit at the 600-level requires additional work.

**PSY 421 - Behavior Modification**
Examination of the principles, techniques, and applications of the behavior change process.
Credits: 3
Prerequisites: PSY 210, PSY 240 and PSY 341. Min C- grade in PSY 240 and PSY 341.

**PSY 422 - Psychopharmacology of Abused Drugs**
Effects of abused drugs on the nervous system and behavior. After a study of the principles of neurotransmission, the general pharmacodynamics actions of drugs reviewed. Psychological effects of those drugs most commonly abused in contemporary society studied in detail.
Credits: 3
Prerequisites: PSY 303

**PSY 423 - Language Development**
Overview of the concepts, theories, and research on child language development.

**PSY 424 - Neurobiology of Learning and Memory**
Exploration of classic animal and human learning concepts and research as well as a contemporary understanding of the biological processes underlying learning and memory.
Credits: 3
Prerequisites: PSY 303

**PSY 425 - Cognitive Neuroscience**
Examination of methods, theories, and findings from research on how the human brain generates perception, cognition, and action.
Credits: 3
Prerequisites: PSY 210 or an equivalent statistics course, and either PSY 303, PSY 305, or PSY 316

**PSY 428 - Cellular and Molecular Approaches to Behavior**
Examination of the major findings and research methods in the investigation of cellular, molecular, and genetic mechanisms underlying behavior.
Credits: 3
Prerequisites: PSY 303

**PSY 431 - Multicultural Psychology**
Exploration of the meaning and value of diversity, bias, and multicultural competence as they pertain to various psychological issues and everyday events.
Credits: 3
Prerequisites: A minimum grade of C- in each of these classes: PSY 210 and PSY 240.
Notes: Satisfies the Multicultural and Social Science Requirement.

**PSY 432 - Human Memory**
A study of the concepts, theories, and research in human memory.
Credits: 3
Prerequisites: PSY 210, PSY 240 and PSY 316.
PSY 433 - Culture and Personality
Theories of the relationship between the psychological characteristics of the individual and the demands of the cultural milieu, the nature of human psychological plasticity, cultural forces operant in the formation of personality, and cross-cultural studies of personality.
Credits: 3
Prerequisites: PSY 210, PSY 240 and either PSY 341 or PSY 360.
Min C- grade in PSY 240 and (PSY 341 or PSY 360)

PSY 435 - Personality
Study of personality as a psychological construct with emphasis on its structure, development, and measurement.
Credits: 3
Prerequisites: PSY 210, PSY 240 and either PSY 341 or PSY 360.
Min C- grade in PSY 240 and (PSY 341 or PSY 360)

PSY 438 - Childhood Behavior Disorders
Overview of primary psychological disorders of childhood and adolescence, including fear/anxiety, depression, hyperactivity, delinquency, and eating, elimination, and sleep disorders. Topics include epidemiology, etiology, assessment, and treatment. Related problems such as child abuse, divorce, and medical conditions discussed.
Credits: 3
Prerequisites: PSY 210, PSY 240 and either PSY 330 or PSY 341
Min C- grade in PSY 240 and (PSY 330 or PSY 341)

PSY 439 - Field Experience in the Teaching of Psychology
Supervised experience as a teaching assistant for a psychology course.
Credits: 1-3
Prerequisites: Min B grade in PSY 101 and Junior Standing and Instructor Consent
May be repeated for a maximum of 3 credits.

PSY 442 - Psychology of Aging
Exploration of the changes that occur in late adulthood. Areas of study include physiology, sensory and cognitive processes, personality, psychopathology, and death and dying.
Credits: 3
Prerequisites: PSY 210 and PSY 240
Minimum grade of C- in PSY 240.

PSY 446 - Human Neuropsychology
Exploration of neuropsychological approaches to the study of normal and abnormal brain function from anatomical and behavioral perspectives.
Credits: 3
Prerequisites: Min C- grade in PSY 303

PSY 451 - Basic Principles of Psychotherapy
Study of theories and approaches to counseling and psychotherapy.
Credits: 3
Prerequisites: PSY 101, PSY 210, PSY 240 and PSY 341.
Min C- grade in PSY 240 and PSY 341

PSY 466 - Dimensions of Human Sexuality
Psychological, physiological, and comparative study of sexual behavior.
Credits: 3
Prerequisites: PSY 210 and PSY 240. PSY 240 (C- min)

PSY 467 - Psychology of Gender
Examination of gender - the "social role" of being male or female and the effects it has on people as individuals and as a society.
Credits: 3
Prerequisites: PSY 210 and PSY 240.
PSY 240 (C- min)
Notes: Same as WMST 467.

PSY 469 - Psychology and the Legal System
Overview of the application of psychology to the criminal and civil justice systems and introduction to relevant case law. Topics include police psychology, eyewitness accuracy, jury decision-
making, competency to stand trial, criminal responsibility, civil commitment, violence risk assessment, correctional psychology, and juvenile justice.

Credits: 3
Prerequisites: PSY 240 or CRJ 130 and CRJ 301.
Notes: Same as CRJ 469.

**PSY 470 - Health Psychology**
Overview of science and clinical practice of health psychology: promotion of health, treatment of illness, and psychosocial correlates of health and illness.
Credits: 3
Prerequisites: PSY 101, PSY 210 and PSY 240.
PSY 240 (C- min grade)

**PSY 481 - Principles of Psychological Assessment**
Theory, construction, and application of standard psychological tests.
Credits: 3
Prerequisites: PSY 101, PSY 210 and PSY 240.
PSY 240 (C- grade min)

**PSY 490 - Capstone in Psychology**
Capstone course for senior psychology majors that covers major psychological theories, research methods, statistics, ethics, diversity, and communication skills.
Credits: 1
Corequisites: Any 400 level PSY course
Prerequisites: PSY 101, PSY 200, PSY 210, PSY 240, senior status
Min C- grade in PSY 200 & PSY 240, and senior status

**PSY 494 - Undergraduate Internship in Psychology**
Supervised internship allowing students to observe and apply psychology in the workplace and to develop their professional skills.
Credits: 3
Prerequisites: PSY 240 (C- or better), psychology major, senior status.

**PSY 495 - Seminar**
Explores a specific aspect of the advanced study of psychology. Students have a major responsibility for selection and presentation of topics.
Credits: 1-6
Prerequisites: PSY 101, PSY 210, and PSY 240.
PSY 240 (C- min grade)
May be repeated to a maximum of six credits.

**PSY 496 - Advanced Independent Study**
Individual reading projects under the direction of a faculty member.
Credits: 1-6
Prerequisites: Permission of instructor.
Notes: Department approval must be obtained prior to registration.
May be repeated to a maximum of six credits.

**PSY 497 - Supervised Field Experience**
Individual field experience under the supervision of a faculty member.
Credits: 1-6
Prerequisites: PSY 101.
Notes: Department approval must be obtained prior to registration.
May be repeated to a maximum of six credits.

**PSY 498 - Advanced Independent Research**
Individual research projects under the direction of a faculty member.
Credits: 1-6
Prerequisites: PSY 101.
Notes: Department approval must be obtained prior to registration.
May be repeated to a maximum of six credits.

**PSY 499 - Advanced Special Topics**
Exploration of special topics in psychology.
Credits: 1-6
Prerequisites: PSY 101, PSY 210, and PSY 240.
Min C- grade in PSY 240
May be repeated to a maximum of six credits.
**Sociology**

**Purpose and Focus**
The UNLV Department of Sociology combines innovative research teaching and community service to address questions of social change, diversity, social justice, and sustainability in urban environments. Our research and teaching emphasize civic engagement and provides students with skills necessary for personal intellectual growth, active citizenship, and professional success. A UNLV Sociology degree helps students develop skills for success in a wide range of fields such as education, social services, law, politics, urban planning, business management, marketing, and social research analysis. The department also trains majors in the primary skills and knowledge required for successful graduate study in Sociology.

**Degree Objectives/Learning Outcomes**
Sociology's degree objectives for our graduates include:

1. Understanding sociology's key concepts, debates, and trends and how these contribute to our understanding of social reality. Such concepts include: culture, social change, socialization, stratification, social structure, institutions, and differentiations by race/ethnicity, gender, age, and class.

2. Comprehending major sociological paradigms and theories, the historical-cultural contexts in which they were developed, and their role in building sociological knowledge.

3. Understanding sociological research methods, including the role of evidence and qualitative and quantitative methods in sociology, research design, data gathering, and data analysis.

4. Developing a sociological imagination to apply sociological knowledge, concepts and critical thinking to students' own projects, whether intellectual, personal, or political.

5. Developing skills in critical analytical thinking and confidence to express ideas orally and in writing.

**Accreditation**
Northwest Commission on Colleges and Universities

**Undergraduate Major**
Sociology

**Academic Policies**
Sociology majors and minors must earn a grade of C- in every required major and minor course to remain in good standing (i.e., SOC 101 or SOC 102, SOC 403, SOC 404, SOC 421, SOC 422, and SOC 101 or SOC 102, SOC 403, and SOC 421, respectively). Fifty percent of the total required credits in the Sociology major and minor must be completed at UNLV.

**Advisement**
For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Students may also contact the Department of Sociology Undergraduate Director to discuss additional academic and career issues.

**Sociology Major (BA)**

**Department of Sociology Major - Bachelor of Arts (BA)**
Please see the UNLV Department of Sociology web page at www.unlv.edu/sociology/admissions for information about department programs, faculty, and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-sociology.

Please see advising information at the UNLV Department of Sociology Undergraduate Advising at liberalarts.unlv.edu/WAC/
Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
The sociology graduate will have knowledge of:

1. the key concepts, debates, and trends in sociology
2. the major sociological paradigms and theories
3. the variety of methods used in sociological research

Sociology students will be able to:

4. Show evidence of the development of a sociological imagination by applying sociological knowledge in their own projects—whether intellectual, personal, and/or political.
5. Exhibit confidence in expressing ideas orally and in writing.

University Graduation Requirements

- Please see Graduation Policies for complete information

Sociology Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 36-38 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4

Mathematics - Credits: 3

Distribution Requirement: Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities
  - One 3-credit course in fine arts.
- Social Science
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
  - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BA in Sociology - Subtotal: 82-84 Credits

(see note 1 and 2 below)

Degree Requirements: 18

Social Science - Credits: 9

Fine Arts - Credits: 3

Foreign Language/Foreign Culture - Credits: 6

Sociology students are required to complete 6 courses:
Sociology Major Requirements - Total Credits: 20

- SOC 101 - Principles of Sociology
- SOC 102 - Contemporary Social Issues
- SOC 403 - Techniques of Social Research
- SOC 404 - Statistical Methods in the Social Sciences
- SOC 421 - Classical Social Theory
- SOC 422 - Modern Sociological Theory
- SOC 489 - Capstone in Sociology

Related Areas - Credits: 26-28
Additional credits related to the student’s academic or vocational career interests, as approved by the Department of Sociology.

Electives - Credits: 18

18 additional credits of SOC electives selected in consultation with an advisor.

Total Credits: 120

Notes

1. Unless otherwise specified, either SOC 101 or SOC 102 serves as a prerequisite for all other sociology courses at the 200-, 300-, or 400-level.
2. See the department or the Wilson Advising Center for a list of courses that meet the College of Liberal Arts and the University curriculum requirements.

Sociology Minor

Courses Include - Total Credits: 19

- SOC 101 - Principles of Sociology
- SOC 102 - Contemporary Social Issues
- SOC 403 - Techniques of Social Research
- SOC 421 - Classical Social Theory

as well as nine additional credits of SOC courses.

Sociology

SOC 101 - Principles of Sociology
Introduction to understanding human behavior, social life, and social change through the perspective of sociology.
Credits: 3

SOC 102 - Contemporary Social Issues
Designed to explore competing explanations for the causes of and cures for the enduring social issues and problems in the contemporary world. Critically analyzes dominant definitions of social problems, the political, economic, and cultural roots of these problems, and the public policies aimed at reducing them.
Credits: 3

SOC 205 - Ethnic Groups in Contemporary Societies
Examination of the experiences and social context of varying racial and ethnic groups within the United States. Examples of groups often included are African Americans, Korean Americans, Mexican American, Native Americans, Cuban Americans, and Irish Americans.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement

SOC 305 - Field Work in Sociology
Planning and execution of research activity. Includes field work, social history, document analysis, surveys, and other techniques. Students select a research problem and research site.
Credits: 4
Prerequisites: SOC 403 or equivalent.
SOC 306 - Field Work in Sociology
Planning and execution of research activity. Includes field work, social history, document analysis, surveys, and other techniques. Students select a research problem and research site.
Credits: 4
Prerequisites: SOC 403 or equivalent.

SOC 356 - Theories of Culture
Study of the nature of culture norms, with reference to art, language, communication, religion, science, etc. Examination of the theoretical underpinnings of the study of culture in the humanities, the social sciences, and in "cultural studies."
Credits: 3
Prerequisites: Upper-division standing.
Notes: Same as PHIL 356.

SOC 370 - Sociology of Subcultures
Examination of the experiences and social context of varying alternative lifestyles within the United States. Examples of topics often included are same-sex relationships, drug subcultures, youth gangs, and the homeless.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement

SOC 390 - Internship in Sociology
Designed to acquaint students with the everyday practicalities of applied sociology. Internship allows students to interact in a work setting.
Credits: 1-6
Prerequisites: Upper-division standing, and consent of instructor.
May be repeated to a maximum of six credits.

SOC 397 - Independent Study
Consultation course consisting of independent student effort under guidance of the instructor. Students assigned to, or request assignment to, specific problems in sociology on the basis of interest and preparation.
Credits: 1-3
Prerequisites: Nine credits in sociology and consent of instructor.
May be repeated to a maximum of six credits.

SOC 403 - Techniques of Social Research
Introduction to research design, data gathering techniques, and sociological analysis of data.
Credits: 4
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 603.
Credit at the 600-level requires additional work.

SOC 404 - Statistical Methods in the Social Sciences
Study and practice with statistical methods especially useful in the presentation and interpretation of social work, psychological, sociological, and educational data.
Credits: 4
Prerequisites: SOC 403.
Notes: This course is crosslisted with SOC 604.
Credit at the 600-level requires additional work.

SOC 407 - Environment and Society
Focuses on the conflict between private rights and the public interest and the extent to which this conflict affects society in the environmental arena.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Same as ENV 407. This course is crosslisted with SOC 607. Credit at the 600-level requires additional work.

SOC 408 - Qualitative Research
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 608.
Credit at the 600-level requires additional work.
SOC 410 - Sociology of Aging
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with SOC 610. Credit at the 600-level requires additional work. Credit at the graduate-level requires additional work; this course is crosslisted with SOC 610

SOC 411 - Films and Society
Understanding diversity and change in film themes and characterizations from the perspective of sociology. Specific topics vary from year to year and may investigate such things as "The Image of the American Hero," "Films as Social Protest," or "Science Fiction and Social Change." Emphasis on the American film.
Credits: 3
Prerequisites: SOC 101 or SOC 102

SOC 412 - Sociology of Art
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 612. Credit at the 600-level requires additional work.

SOC 413 - Sociology of Sport
Examination of the relationship of sport to societal institutions and processes. Behavior of fans, athletes, and sport organizations analyzed from a sociological view.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 613. Credit at the 600-level requires additional work.

SOC 414 - Popular Culture
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102

SOC 415 - World Population Problems
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies International and Social Science Requirement. This course is crosslisted with SOC 615. Credit at the 600-level requires additional work.

SOC 416 - Sociology of Work and Occupations
Comparative examination of work in industrial society. Topics analyzed include labor markets, job satisfaction, occupational choice, and the leisure-work relationship.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 616. Credit at the 600-level requires additional work.

SOC 417 - Sociology of Leisure
Leisure in the United States and other societies. Leisure and work, family, education and religion. Leisure and quality of life, high culture, mass culture, and the leisure society.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 617. Credit at the 600-level requires additional work.

**SOC 421 - Classical Social Theory**
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 621. Credit at the 600-level requires additional work.

**SOC 422 - Modern Sociological Theory**
Major theorists and important schools of thought in contemporary sociology. Includes some or all of the following: structural functionalism, conflict theory, symbolic interactionism, ethnomethodology.
Credits: 3
Prerequisites: SOC 421.

**SOC 423 - Sociology of the Body**
The systematic study of the body as a social fact shaped by societal institutions. Ideologies about the body are also examined across various perspectives including race, class, gender, sexuality, and ability.
Credits: 3
Prerequisites: SOC 101 or SOC 102 or PSY 101 or ANTH 101

**SOC 427 - Comparative Racial and Ethnic Relations**
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102.
Notes: This course is crosslisted with SOC 627. Credit at the 600-level requires additional work.

**SOC 428 - Special Topics in Comparative Societies**
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with SOC 628. Credit at the 600-level requires additional work.

**SOC 429 - Globalization: Economic, Political, and Cultural Perspectives**
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies International and Social Science Requirement. This course is crosslisted with SOC 629. Credit at the 600-level requires additional work.

**SOC 431 - Crime and Criminal Behavior**
General survey of the field of criminology emphasizing social efforts to understand, explain, and deal with criminal behavior.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 631. Credit at the 600-level requires additional work.

**SOC 433 - Juvenile Delinquency**
Delinquent behavior within its social context, with analysis of gangs, subcultures and the patterns of anti-social activity. Evaluation of institutional controls and treatments.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 633. Credit at the 600-level requires additional work.

SOC 434 - Penology & Social Control
The social and historical development of prison systems and other forms of social control, as well as sociological theories of punishment. Includes recent research on prison population growth, offender rehabilitation, deterrence, recidivism, correctional administration, and inmate culture, as well as political repression and other related topics.
Credits: 3
Prerequisites: SOC 101.
Notes: This course is crosslisted with SOC 634. Credit at the 600-level requires additional work.

SOC 436 - Sociology of Poverty
Theoretical framework for understanding Poverty as a consequence of socio-political structure rather than an individual level issue.
Credits: 3
Prerequisites: SOC 101 or SOC 102

SOC 438 - The Culture and Politics of Reproduction
This course examines the intersections between culture, politics, and contemporary reproductive issues. Specifically, we examine the social construction of beliefs, values, norms, and practices concerning reproduction, and the power of the state and other social institutions in regulating this intimate and fundamental sphere of our lives.
Credits: 3
Prerequisites: SOC 101 or SOC 102

SOC 441 - Social Inequality
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with SOC 641. Credit at the 600-level requires additional work.

SOC 442 - Sociology of Gambling
Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems.
Credits: 3
Prerequisites: GAM 225 or SOC 101.
Notes: Satisfies the Multicultural and Social Science Requirement. Same as GAM 442 This course is crosslisted with SOC 642. Credit at the 600-level requires additional work. Same as GAM 442 Credit at the graduate-level requires additional work; this course is crosslisted with SOC 642.

SOC 443 - Urban Sociology
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 643. Credit at the 600-level requires additional work.

SOC 444 - Sociology of Occupations and Professions
Examination of occupations and professions in the contemporary United States in terms of occupational choice, education, socialization into the occupation, career patterns, as well as changing work roles, functions, and ideologies.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 644. Credit at the 600-level requires additional work.

SOC 445 - Men in Society
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Same as WMST 445 Credit at the graduate-level requires additional work; this course is crosslisted with SOC 645

SOC 447 - Marriage and the Family
Study of the institutions of marriage and the family and analysis of various factors and forces affecting the family. Emphasis upon present trends.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with SOC 647. Credit at the 600-level requires additional work.

SOC 449 - Sex and Social Arrangements
Examination of human sexuality in social contexts. Emphasis on racial, ethnic, class and gender dynamics as well as cross-cultural, and historical comparisons with themes such as sexual identities and commodified sex. Study in script analysis including form, style, literal and metamorphical content and themes.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. Same as WMST 449. This course is crosslisted with SOC 649. Credit at the 600-level requires additional work.

SOC 451 - Russian Society in Transition
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies International and Social Science Requirement. This course is crosslisted with SOC 651. Credit at the 600-level requires additional work.

SOC 452 - Sociology of Youth Cultures
Examines the sources of youth cultures in Western and other societies and explores the causes, forms, and trajectories of various contemporary youth cultures using cross-cultural, historical, and psychological insights.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 652.
Credit at the 600-level requires additional work.

SOC 453 - Gender and Society
(Same as WMST 453.) Examines the social construction of gender across a range of institutional, interactional, intellectual and cultural contexts. Emphasis is on the intersection of gender with race, ethnicity, social class and sexuality.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. Same as WMST 453. This course is crosslisted with SOC 653. Credit at the 600-level requires additional work.

SOC 455 - Social Movements and Social Change
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with SOC 655. Credit at the 600-level requires additional work.
SOC 456 - Life, Death, and Sex: Social Demography
Examines the influences of demography (births, deaths, and mobility) on socioeconomic and political structures. Several topics covered affecting international populations such as race/ethnicity, births, deaths, gender, family, socioeconomic opportunities, poverty, aging, immigration, migration, urbanization, and environment. Links between these trends, policy, and well-being established.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies International and Social Science Requirement.

SOC 457 - Society and Health
Analysis of the social determinants of health, including the way in which social structure produces varying patterns of health and illness.
Credits: 3
Prerequisites: SOC 101 or SOC 102

SOC 458 - Sociology of Mental Health
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with SOC 658. Credit at the 600-level requires additional work.

SOC 459 - Social Dilemmas of Climate Change
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.
Credits: 3

SOC 461 - Self and Society
Emphasis on those areas of social psychology primarily sociological in nature: the development of self and the changing self, the relationship of the individual to the group, and the process of socialization.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 661. Credit at the 600-level requires additional work.

SOC 466 - Sociology of Medicine
Analyzes the medical profession and delivery of health care. Medical education, medicine as social control, ethical issues, and the management of medical knowledge examined.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies the Multicultural and Social Science Requirement. This course is crosslisted with SOC 666. Credit at the 600-level requires additional work.

SOC 467 - Sociology of Science
Examines science as a social institution. Topics include the emergence of science in social context; recruitment, competition, and recognition in scientific careers; the social organization of the scientific community; and science in social change.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 667. Credit at the 600-level requires additional work.

SOC 469 - Crossing Borders/Global Migrations
Examines how immigration policy has altered the social, political, and economic conditions facing undocumented and documented migrants. Additionally, the differences between women’s and men’s experiences with migration and connection between immigration policies and labor markets.
SOC 470 - Sociology of Deviance
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 670. Credit at the 600-level requires additional work.

SOC 471 - Race and Ethnic Relations in America
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102.
Notes: Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 671. Credit at the 600-level requires additional work.

SOC 472 - Latina/Latinos in America
Explores the experiences of Latina/os in the U.S., particularly their social and economic integration. Covers and provides a historical context for how gender, racial, ethnic, sexual, and citizenship inequalities affect the rate of socioeconomic and cultural incorporation.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Same as LAS 472

SOC 474 - Sociology of Religion
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: Satisfies International and Social Science Requirement. This course is crosslisted with SOC 674. Credit at the 600-level requires additional work.

SOC 475 - Political Sociology
Multiple dimensions and uses of power in society: development and resolution of public issues, political socialization, covert manipulation, and political movements.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 675. Credit at the 600-level requires additional work.

SOC 476 - Sociology of Education
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. (Does not meet undergraduate professional education requirement.)
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 676. Credit at the 600-level requires additional work.

SOC 478 - Women and Society
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Same as WMST 478 Credit at the graduate-level requires additional work; this course is crosslisted with SOC 678
SOC 479 - Conflict and Society
Reviews causes, dynamics, escalation, de-escalation, and constructive resolution of conflicts in a variety of social contexts from the interpersonal to the international levels. Emphasis on critical understanding of conflict and knowledge to negotiate, facilitate, arbitrate, and mediate a wide range of situations.
Credits: 3
Prerequisites: SOC 101 or SOC 102

SOC 481 - Sociology of Substance Use, Abuse, and Addiction
Examination of the social contexts of substance use, abuse and addiction, programs for their amelioration and the sociological impact of such behavior. Attention also given to both abuse and its treatment in the local community.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 681.
Credit at the 600-level requires additional work.

SOC 482 - Aging and Social Policy
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.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 682.
Credit at the 600-level requires additional work.

SOC 484 - Sociology of Death and Dying
Examines the process of dying; emphasis placed on managing grief, the role of the dying patient, prolonging life, and the funeral industry.
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 684.
Credit at the 600-level requires additional work.

SOC 489 - Capstone in Sociology
Capstone course for senior sociology majors to synthesize their learning in theory, methods and substantive areas.
Credits: 3
Prerequisites: Minimum C-grade in SOC 403 and SOC 421.

SOC 490 - Seminar
Study of selected topics of current interest in sociology and significance to the discipline. Course content changes each time offered, and students may repeat enrollment under different instructors.
Credits: 1-3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with SOC 690.
Credit at the 600-level requires additional work.

SOC 497 - Special Topics in Sociology
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;
Credits: 3
Prerequisites: SOC 101 or SOC 102
Notes: This course is crosslisted with SOC 697.
Credit at the 600-level requires additional work.
May be repeated to a maximum of nine credits.

SOC 498 - Independent Study in Cultural Studies
Intensive study in a specific area of student interest under the direction of a faculty member.
Credits: 3
Prerequisites: Consent of instructor.
World Languages and Cultures

Purpose and Focus
The Department of World Languages and Cultures offers programs of study leading to degrees in several languages. The department promotes the study of languages and cultures in order to prepare students to live and work in an increasingly interdependent world. While fostering an atmosphere of critical thinking and intellectual growth, the department helps students enhance their language skills and augment their appreciation of varied literatures and cultures. A B.A. in a foreign language is excellent preparation for careers in law, diplomacy, medicine, business, the arts, academics, journalism, and education.

Accreditation
Northwest Commission on Colleges and Universities

General Education International Core Requirement
The vast majority of WLC courses fulfill the General Education International Core Requirement. Consult the current listing of approved courses for verification.

Undergraduate Majors
French Studies
German Studies
Romance Languages: Primary Language Concentration/Secondary Language Concentration
Spanish
Spanish for the Professions

Special Programs
All World Languages and Cultures majors and minors may be fully completed on campus. Alternatively, students may elect to study abroad for a summer, a semester, or a year in a country such as Spain, France, Germany, Italy, Japan, Chile, Mexico, or Costa Rica. Administered by International Programs, such study provides students with first-hand experience of the language and culture of the host country while earning UNLV credits. Credits taken abroad will be recorded as CHI; WLC; FREN; GER; ITAL; or SPAN 187, 287, 387, or 487. Whether they correspond to courses offered by the department or count toward a major or minor will be determined by a departmental advisor in the Department of World Languages and Cultures. Students are strongly encouraged to consult the departmental advisor in the specific language prior to their study abroad, and advised that such study is optimally undertaken after the first year of language study on campus.

Admission Policies
Students who have had foreign language courses in high school, as well as those who are heritage, native, fluent or advanced speakers of a language, are required to take a placement test in that language if they wish to resume its study. The placement exam is free, and the score will determine proper placement. Please consult the department website for further information.

Academic Policies
Heritage, native, fluent or advanced speakers of a language other than English may not enroll in 113, 114, 213, 214 classes in that language. After initial placement, first- and second-year courses must be taken in sequential order. Students may not enroll concurrently in any of these courses and one of a higher level except for those courses taught in English.

Students majoring in Spanish, Spanish for the Professions, French Studies and German Studies must take at least 30 of the 36 upper-division credits required for the major at UNLV. Students may take credit by examination in a given course one time only. Credit by examination may be taken only in 113, 114, 213, 214, 226, 227, 301, or 302, pending departmental approval of level.
Advisement
For general academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors and minors should directly contact the departmental faculty advisor for advice regarding courses in the specific major or minor, as well as for career advising and for more specialized academic advising.

World Languages and Cultures

CHI 100 - Elementary Chinese Conversation
Intensive conversation courses in Mandarin Chinese at the beginning level, focus on pronunciation, vocabulary acquisition, basic grammatical structures, communication skills and cultural awareness.
Credits: 3

CHI 105 - Chinese Business Culture
Introduction to the cultural and linguistic knowledge needed to conduct business in China. Topics covered include business etiquette, business environment in China, current economic and political situation in China. Basic communication skills also covered.
Credits: 3
Notes: Satisfies International and Humanities requirement. Taught in English.

CHI 113 - Elementary Chinese I
Development of language skills in listening, speaking, reading, and writing.
Credits: 3
Notes: Satisfies Humanities and International Requirements.

CHI 114 - Elementary Chinese II
Development of language skills in listening, speaking, reading, and writing.
Credits: 3
Prerequisites: CHI 113 or equivalent.
Notes: Satisfies Humanities and International Requirements.

CHI 126 - Introduction to Chinese for Heritage Speakers
Designed for students who have a Chinese language background (including Mandarin and Chinese dialects) but little or no formal training. Will complement students' existing proficiency with instruction in oral production, listening comprehension, basic grammar, reading, writing, and culture to advance them to intermediate Chinese proficiency level in one semester.
Credits: 3
Prerequisites: Cannot take this course if have taken CHI 113 or CHI 114
Notes: Satisfies International and Humanities Requirements.

CHI 187 - Study Abroad in Foreign Language, Literature, or Culture I
Elementary course work in Chinese language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated for a maximum of thirty credits.

CHI 213 - Intermediate Chinese I
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: CHI 114 or equivalent.
Notes: Satisfies Humanities and International Requirements.

CHI 214 - Intermediate Chinese II
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: CHI 213 or equivalent.
Notes: Satisfies Humanities and International Requirements.

CHI 287 - Study Abroad in Foreign Language, Literature, or Culture II
Intermediate course work in Chinese language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated for a maximum of thirty credits.

CHI 301 - Third-Year Chinese: Conversation and Composition
Intensive practice in oral Chinese. Topics for conversations are drawn from newspaper articles and other media sources on social-cultural issues in China. Develops ability to comprehend Chinese used in various contexts, to write short essays, and to discuss subject-oriented issue.
Credits: 3
Prerequisites: CHI 214 or equivalent.
Notes: Satisfies Humanities and International Requirements.

CHI 302 - Third-Year Chinese: Grammar and Composition
Review of grammar and development of writing skills in Chinese. Develops ability to write narrative, descriptive, and expository writings in Chinese.
Credits: 3
Prerequisites: CHI 214 or equivalent.
Notes: Satisfies Humanities and International Requirements.

CHI 322 - Modern Chinese Literature in Translation
Study of the poems, short stories, and essays by modern Chinese writers. Literary texts woven together with critical texts and occasional films. Explores how works of literature illuminate some of the most significant aspects of modern Chinese society. Credits: 3
Notes: Satisfies International and Humanities requirement.
May be repeated to a maximum of six credits.

CHI 323 - Chinese Popular Culture
Introduction to contemporary Chinese culture and society. Focuses on popular literature, contemporary Chinese cinema, soap operas, political pop in the arts, pop music, and Internet literature in China. Taught in English.
Credits: 3

CHI 387 - Study Abroad in Foreign Language, Literature, or Culture III
Advanced course work in Chinese language, literature, or culture. Offered through the Office of International Programs. Credits: 1-4
Prerequisites: CHI 214.
May be repeated for a maximum of thirty credits.

CHI 416 - Business Chinese I
Acquisition of advanced language skills and content knowledge needed in the Chinese business world. Students will learn terminology and format of business communication in Chinese, and gain a better understanding of business environment and culture in contemporary China. Taught in Chinese.
Credits: 3
Prerequisites: CHI 302

CHI 417 - Business Chinese II
A continuation of CHI 416 with more readings and discussions on business-related topics.
Credits: 3
Prerequisites: CHI 416
CHI 443 - Modern Chinese Culture Through Film
Study of modern Chinese culture from both historical and critical perspectives through selected Chinese films. The primary focus is on the Mainland China but students will also be introduced to Hong Kong, Taiwan, diaspora and transnational Chinese cultures.
Credits: 3
Prerequisites: ENG 101, ENG 102 and ENG 231 or ENG 232.
Notes: Taught in English.
Same as AIS 443

CHI 487 - Study Abroad in Foreign Language, Literature, or Culture IV
Senior-level course work in Chinese language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: CHI 287.
May be repeated for a maximum of thirty credits.

CLA 100 - First Year Seminar
This course will introduce students to university life and the University Undergraduate Learning Outcomes by exploring a specific topic area and discussing the skills and knowledge necessary to succeed as an undergraduate. The topic area will vary by section. See section notes for description of the content of each section.
Credits: 3

CLA 309 - Independent Readings in the Classical Languages
Independent study taken under the supervision of a faculty member.
Credits: 1-3
Prerequisites: 12 credits of course work in Classical Studies and consent of instructor.
May be repeated to a maximum of six credits.

CLA 450 - Classical Drama in Translation
(Same as ENG 463A.) Study of major Greek and Latin playwrights.
Credits: 3

FREN 113 - Elementary French I
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking.
Credits: 3
Notes: Satisfies Humanities and International Requirements. See department for placement.

FREN 114 - Elementary French II
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking.
Credits: 3
Prerequisites: FREN 113 or equivalent.
Notes: Satisfies Humanities and International Requirements. See department for placement.

FREN 187 - Study Abroad in Foreign Language, Literature or Culture I
Elementary course work in French language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

FREN 213 - Intermediate French I
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: FREN 114 or equivalent.
Notes: Satisfies Humanities and International Requirements.

FREN 214 - Intermediate French II
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: FREN 213 or equivalent.
Notes: Satisfies Humanities and International Requirements.

FREN 287 - Study Abroad in Foreign Language, Literature, or Culture II
Intermediate course work in French language, literature, or culture. Offered through the Office of
International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

FREN 300 - French Grammar Review
Review and consolidation of students' knowledge of French grammar structures. Practices advanced and unfamiliar grammatical constructions.
Credits: 3
Prerequisites: FREN 214 or equivalent.
Notes: Satisfies International and Humanities Requirement. Taught in French.

FREN 301 - Third-Year French: Composition and Conversation I
Development of oral proficiency, writing skills, and reading for comprehension.
Credits: 3
Prerequisites: FREN 214.
Notes: Satisfies Humanities and International Requirements.

FREN 302 - Third-Year French: Composition and Conversation II
Development of oral proficiency, writing skills, and reading for comprehension.
Credits: 3
Prerequisites: FREN 214.
Notes: Satisfies Humanities and International Requirements.

FREN 312 - French Phonetics I
Intensive practice of French sounds and intonation. Training in phonetic transcription. Exercises based on words, sentences, and texts designed to help the students achieve a native-like pronunciation.
Credits: 3
Prerequisites: FREN 214.

FREN 313 - French Phonetics II
Continued intensive practice of French sounds and intonation with an emphasis on more varied and regional vocabulary. Knowledge of phonetic transcription assumed. Exercises based on words, sentences, and texts designed to help the students achieve a native-like pronunciation.
Credits: 3
Prerequisites: FREN 312.

FREN 324 - Survey of French Culture
Conducted in French. Introduces the principal cultural, intellectual and artistic events of France and the francophone world that continue to resonate in French culture.
Credits: 3
Prerequisites: FREN 214.

FREN 341 - History of French Literature I
Comprehensive view of French literature from its beginning to the present day.
Credits: 3
Prerequisites: Minimum grade of C+ in FREN 300 or FREN 301 or FREN 302.

FREN 342 - History of French Literature II
Comprehensive view of French literature from its beginning to the present day.
Credits: 3
Prerequisites: Minimum grade of C+ in FREN 300 or FREN 301 or FREN 302.

FREN 387 - Study Abroad in Foreign Language, Literature, or Culture III
Advanced course work in French language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: FREN 214.
May be repeated to a maximum of thirty credits.

FREN 401 - Advanced French Composition and Conversation I
Composition course designed to improve writing skills for students at the senior level. Taught entirely in the target language and emphasizes stylistics.
Credits: 3
Prerequisites: FREN 301, FREN 302.
FREN 402 - Advanced French Composition and Conversation II
Advanced stylistics class with emphasis on writing, vocabulary building, rhetorical figures and analysis of texts.
Credits: 3
Prerequisites: FREN 301, FREN 302.

FREN 409 - Independent Study
Independent study taken under the supervision of a faculty member.
Credits: 1-3
Prerequisites: FREN 302.
May be repeated to a maximum of six credits.

FREN 416 - Business French
Offers foundation in business vocabulary, the study of basic and cultural concepts, and practice in situations common to today’s French-speaking business world.
Credits: 3
Prerequisites: FREN 300 or FREN 301 or FREN 302.

FREN 425 - Topics in French Culture
Analysis of different aspects of French or Francophone culture through art, mass media and popular traditions.
Credits: 3
Prerequisites: FREN 300 or FREN 301 or FREN 302.
Notes: Taught in French.
May be repeated with a different topic for up to six credits

FREN 441 - Topics in French Literature
Concentrated study of selected themes, authors, periods or literary forms in French or Francophone literature.
Credits: 3
Prerequisites: FREN 341 or FREN 342.
May be repeated for a maximum of six credits with a different topic.

FREN 449 - The History of French Film
Survey and evolution of French film from silent to sound: surrealism, realism, and the New Wave.
Includes the work of major filmmakers such as Clair, Renoir, Cocteau, Clouzot, Godard, Truffaut, etc. Films analyzed as works of art, social documents, and instruments of communication.
Credits: 3
Prerequisites: FREN 300 or FREN 301 or FREN 302.

FREN 487 - Study Abroad in Foreign Language, Literature, or Culture IV
Senior-level course work in French language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: FREN 301.
May be repeated to a maximum of thirty credits.

GER 113 - Elementary German I
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking. See department for placement.
Credits: 3
Notes: Satisfies the International and Humanities Requirement. See department for placement.

GER 114 - Elementary German II
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking. See department for placement.
Credits: 3
Prerequisites: GER 113 or equivalent.
Notes: Satisfies Humanities and International Requirements.

GER 116 - Elementary German Conversation
Development of conversation skills based on reading selections, with review of grammar as needed. Not open to students having credit for GER 213, GER 225, or more advanced courses.
Credits: 3
Prerequisites: GER 114.
GER 187 - Study Abroad in Foreign Language, Literature, or Culture I
Elementary course work in German language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

GER 213 - Intermediate German I
Structural review; conversation, reading, and writing.
Credits: 3
Prerequisites: GER 114 or equivalent.
Notes: Satisfies Humanities and International Requirements.

GER 214 - Intermediate German II
Structural review; conversation, reading, and writing.
Credits: 3
Prerequisites: GER 213 or equivalent.
Notes: Satisfies Humanities and International Requirements.

GER 225 - German Grammar Review
Intensive grammar review for those who have completed intermediate German. Reinforces basic grammar concepts as well as practices advanced and unfamiliar constructions. Reading comprehension exercises with appropriate target-language texts also included.
Credits: 3
Prerequisites: GER 214.
Notes: Satisfies the International and Humanities Requirement.

GER 287 - Study Abroad in Foreign Language, Literature, or Culture II
Intermediate course work in German language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

GER 299 - Introductory German Texts in the Humanities
Supplements English-language content of selected 100-200 level courses in the College of Liberal Arts with course-appropriate readings in German for language credit. Offered only in conjunction with specific instructors and course sections.
Credits: 2
May be repeated to a maximum of four credits.

GER 301 - Third-Year German: Composition and Conversation I
Development of oral proficiency, writing skills, and reading for comprehension.
Credits: 3
Prerequisites: GER 214 or equivalent achievement on the placement test.
Notes: Satisfies Humanities and International Requirements.

GER 302 - Third-Year German: Composition and Conversation II
Development of oral proficiency, writing skills, and reading for comprehension.
Credits: 3
Prerequisites: GER 214 or equivalent achievement on the placement test.
Notes: Satisfies the International and Humanities Requirement.

GER 311 - Introduction to German Linguistics
Structure of the German language: phonetics, phonemics, morphemic, and basic notions of the syntactic structure. Offered in English.
Credits: 3
Prerequisites: GER 214 or equivalent.

GER 312 - German Phonetics
Intensive practice of German sounds and intonation. Training in phonetic transcription. Exercises based on words, sentences, and texts designed to help the students achieve a native-like pronunciation. Offered in English.
Credits: 3
GER 321 - German Culture and Civilization
General study of Germany as a nation from earliest times to the present; its cultural, social, economic, and political evolution; its present problems and its role in the world today. Taught in English.
Credits: 3
Prerequisites: Nine credits of English composition and literature.
Notes: Satisfies the International and Humanities Requirement.

GER 322 - Contemporary Germany and Austria
Survey of cultural developments in German-speaking Europe since the fall of the Berlin Wall. Responses of prominent writers, musicians, filmmakers, politicians, etc., to issues such as continued East/West German tension, Nazism's legacy, the role of the EU, violence toward foreigners, the transatlantic partnership, globalization, and more. In English.
Credits: 3
Prerequisites: GER 321.
Notes: Satisfies the International and Humanities Requirement.

GER 331 - German Literature in Translation — Drama
German plays in English translations with the main emphasis on the modern period, including works by Hauptmann, Brecht, Frisch, Durrenmatt, and Weiss.
Credits: 3
Prerequisites: ENG 101 and ENG 102.
Notes: Specifically designed for non-majors; may only be counted toward a German major or minor with written permission of the advisor for the German major.

GER 332 - German Literature in Translation — Prose
German short stories and novels in English translations with the main emphasis on the modern period, including works by Mann, Hesse, Kafka, and Grass.
Credits: 3

GER 341 - German Literature to 1624
Preliminary survey of German literature from the Hildebrand lied to Opitz.
Credits: 3
Prerequisites: GER 214 or equivalent.

GER 342 - German Literature from 1624 to the Present
Preliminary survey of German literature from the early seventeenth century to the present. Presents representative literary texts against their respective socio-historical background.
Credits: 3
Prerequisites: GER 214 or equivalent.

GER 387 - Study Abroad in Foreign Language, Literature, or Culture III
Advanced course work in German language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: GER 214.
May be repeated for a maximum of thirty credits.

GER 399 - Advanced German Texts in the Humanities
Supplements English-language content of selected 300-level courses in the College of Liberal Arts with course-appropriate readings in German for language credit. Offered only in conjunction with specific instructors and course sections.
Credits: 2
May be repeated to a maximum of 4 credits.

GER 401* - Advanced German Composition and Conversation I
Composition course designed to improve writing skills for students at the senior level. Taught entirely in the target language and emphasizes
stylistics.
Credits: 3
Prerequisites: GER 302.

**GER 402* - Advanced German Composition and Conversation II**
Advanced stylistics class with emphasis on writing, vocabulary building, rhetorical figures and analysis of texts.
Credits: 3
Prerequisites: GER 302.

**GER 405 - German Translation and Interpretation**
Introduction to the theory and practice of written translation and oral interpretation from German into English. Includes practice with literary texts from diverse genres as well as business, legal and political texts. Strategies of oral interpretation and computer-based translation also introduced, critiqued and practiced.
Credits: 3
Prerequisites: GER 302.
Notes: Taught in German.

**GER 406 - German Translation Project**
Professor-supervised creation of an English translation, suitable for publication, of an authentic German-language text.
Credits: 3
Prerequisites: GER 405.

**GER 409 - Independent Study**
Independent study under the direction of a faculty member.
Credits: 1-3
May be repeated to a maximum of six credits.

**GER 416 - Business German**
Introduction to the vocabulary and cultural knowledge required to conduct business in German-speaking Europe. Students become familiar with personal finance, industrial relations, the stock market, taxation, banking and hospitality industries in Germany and also gain skills to successfully apply for jobs requiring German.
Credits: 3
Prerequisites: GER 302.
Notes: Taught in German.
GER 455 - German Literature of the Baroque
Study of selected works of Gryphius, Lohenstein, Grimmelshausen.
Credits: 3
Prerequisites: GER 214.

GER 457 - German Literature of the Enlightenment
Enlightenment as a turning point in European culture; examines selected works of Gottsched, Lessing, and Wieland as well as new literary forms such as the familiar essay and the bourgeois tragedy. Credits: 3
Prerequisites: GER 214

GER 461 - Storm and Stress and Classicism
Study of selected works of Goethe and Schiller.
Credits: 3
Prerequisites: GER 214.

GER 471 - Romanticism
Study of selected works of writers such as Tieck, Novalis, Arnim, Brentano, Eichendorff, and Hoffmann.
Credits: 3

GER 472 - Nineteenth-Century Drama and Poetry
Study of selected works of writers such as Kleist, Grillparzer, Hebbel, and Grabbe.
Credits: 3
Prerequisites: GER 214.

GER 473 - Nineteenth-Century Prose
Study of selected works of writers such as Kleist, Stifter, Meyer, Keller, Storm, and Fontane.
Credits: 3
Prerequisites: GER 214.

GER 480 - Modern German Literature I
Study of German literature from Naturalism to the Second World War.
Credits: 3
Prerequisites: GER 214.

GER 481 - Modern German Literature II
Advanced study. Analysis of a wider range of works than in GER 480.
Credits: 3
Prerequisites: GER 480.

GER 482 - Contemporary German Literature
Study of German literature from the Second World War to the present.
Credits: 3
Prerequisites: GER 214.

GER 487 - Study Abroad in Foreign Language, Literature, or Culture IV
Senior-level course work in German language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: GER 301.
May be repeated to a maximum of thirty credits.

GER 490 - Selected Topics of German Literature
Concentrated study of themes, authors, periods, or topics related to German literature.
Credits: 3
Prerequisites: GER 214.
May be repeated to a maximum of six credits.

GER 499 - Intensive Advanced German Texts in the Humanities
Supplements English-language content of selected 400-level or above courses in the College of Liberal Arts with course-appropriate readings in German for language credit. Offered only in conjunction with specific instructors and course sections.
Credits: 3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.

GRE 113 - Classical Greek I
First-year classical Greek grammar, reading, and vocabulary building.
Credits: 3
Notes: Satisfies Humanities and International Requirements.
GRE 114 - Classical Greek II
First-year classical Greek grammar, reading, and vocabulary building.
Credits: 3
Prerequisites: GRE 113 or equivalent.
Notes: Satisfies Humanities and International Requirements.

GRE 115 - Modern Greek I
First-year modern Greek grammar, reading, and vocabulary building.
Credits: 3
Notes: Satisfies Humanities and International Requirements.

GRE 213 - Classical Greek III
Second-year classical Greek grammar, reading, and vocabulary building.
Credits: 3
Prerequisites: GRE 114 or equivalent.
Notes: Satisfies Humanities and International Requirements.

GRE 331 - Greek Literature in Translation
Selected masterpieces of Greek literature in English translations.
Credits: 3
Notes: Satisfies the International and Humanities Requirement.

HEB 113 - Elementary Hebrew I
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Notes: Satisfies the International and Humanities Requirement. See department for placement

HEB 114 - Elementary Hebrew I and II
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Notes: Satisfies the International and Humanities Requirement. See department for placement

HEB 213 - Intermediate Hebrew I
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: HEB 114 or equivalent achievement on the placement test.
Notes: Satisfies Humanities and International Requirements.

HEB 214 - Intermediate Hebrew II
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: HEB 114 or equivalent achievement on the placement test.
Notes: Satisfies Humanities and International Requirements.

ITAL 100 - Italian: Elementary Conversation
Intensive practice in oral Italian at the first-year level: emphasis on communication, vocabulary acquisition and pronunciation. Instruction in grammatical structure as needed.
Credits: 1-3

ITAL 110 - Italian Language Through Music
Aimed at students interested in Italian language and music. Course covers elementary Italian grammar, with emphasis on spelling, pronunciation, and vocabulary. Basic proficiency is developed through reading and listening activities. Language material will be framed within relevant context (lyrics and music culture).
See department for placement.
Credits: 3

ITAL 113 - Elementary Italian I
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Notes: Satisfies Humanities and International Requirements. See department for placement
ITAL 114 - Elementary Italian II
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Prerequisites: ITAL 113 or ITAL 110 or equivalent
Notes: Satisfies Humanities and International Requirements. See department for placement

ITAL 187 - Study Abroad in Foreign Language, Literature, or Culture I
Elementary course work in Italian language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

ITAL 200 - Italian: Intermediate Conversation
Intensive practice in oral Italian at the second-year level: emphasis on communication, vocabulary expansion and fluency development. Discussion based on selected readings and current events.
Credits: 1-3
Prerequisites: ITAL 100 or equivalent ability.

ITAL 203 - Second-Year Readings in Italian
Reading of authentic Italian texts at the advanced beginning level. Emphasis on vocabulary expansion and pronunciation.
Credits: 3
Prerequisites: ITAL 114 or equivalent
Notes: Taught in Italian

ITAL 213 - Intermediate Italian I
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: ITAL 114 or equivalent.
Notes: Satisfies Humanities and International Requirements.

ITAL 214 - Intermediate Italian II
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: ITAL 213 or equivalent.
Notes: Satisfies Humanities and International Requirements.

ITAL 287 - Study Abroad in Foreign Language, Literature, or Culture II
Intermediate course work in Italian language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

ITAL 300 - Italian: Advanced Conversation
Intensive practice in oral Italian at the third-year level: vocabulary expansion and fluency development. Discussion based on selected readings and current events.
Credits: 1-3
Prerequisites: ITAL 214 or equivalent ability.
Notes: Satisfies the International and Humanities Requirement.

ITAL 301 - Third-Year Italian: Composition and Conversation
Development of oral proficiency, writing skills, and reading for comprehension.
Credits: 3
Prerequisites: ITAL 214 or equivalent achievement on placement test.
Notes: Satisfies Humanities and International Requirements.

ITAL 302 - Third-Year Italian: Composition and Conversation
Development of oral proficiency, writing skills, and reading for comprehension.
Credits: 3
Prerequisites: ITAL 301, or equivalent achievement on the placement test.
Notes: Satisfies Humanities and International Requirements.
ITAL 303 - Third-Year Readings in Italian: Subtitle Varies
Reading of authentic Italian literary texts: emphasis on vocabulary expansion and pronunciation.
Credits: 3
Prerequisites: ITAL 214.
Notes: Taught in Italian.
May be repeated to a maximum of 6 credits with different subtitle.

ITAL 315 - Italian Translation I
Introduction to the theory of translation and guidance in the use of materials essential to the translation process. Practice in the translation of texts in various fields from Italian into English and English into Italian.
Credits: 3
Prerequisites: ITAL 302 or equivalent.

ITAL 321 - Italian Culture and Civilization
General study of Italy from earliest times to the present; its cultural, social, economic and political evolution; its present problems and its role in the world today.
Credits: 3
Prerequisites: Nine credits of English composition and literature.
Notes: Satisfies the International and Humanities Requirement. Taught in English.

ITAL 322 - Italian Popular Culture
Examines different aspects of Italian popular culture, from earliest times to the present. Shows the integration of history, geography and folklore in Italy. Analyzes the relationship of food, culture and society in specific regional and cultural groups.
Credits: 3
Prerequisites: Nine credits of English composition and literature.
Notes: Satisfies the International and Humanities Requirement. Taught in English.

ITAL 387 - Study Abroad in Foreign Language, Literature, or Culture III
Advanced course work in Italian language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: ITAL 214.
May be repeated to a maximum of thirty credits.

ITAL 401 - Advanced Italian Grammar and Composition I
Advanced grammar course designed to improve writing skills for students at the senior level. Taught entirely in the target language.
Credits: 3
Prerequisites: ITAL 302 or consent of instructor.

ITAL 402 - Advanced Italian Grammar and Composition II
Advanced grammar course designed to improve writing skills for students at the senior level. Taught entirely in the target language.
Credits: 3
Prerequisites: ITAL 401 or consent of instructor.

ITAL 403 - Advanced Reading Proficiency in Italian
Develops advanced reading skills in Italian through textual analysis of a broad range of reading materials.
Credits: 3
Prerequisites: ITAL 302 or ITAL 402, or consent of instructor.
Notes: This course is cross-listed with ITAL 603. Credit at the 600-level requires additional work.

ITAL 409 - Independent Study
Independent study taken under the supervision of a faculty member.
Credits: 1-3
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.
ITAL 440 - Topics in Italian Literature
Concentration on main authors, themes, regions, periods and movements in Italian literature.
Credits: 3
Prerequisites: ITAL 302, or nine credits of English composition and literature.
Notes: Satisfies the International and Humanities Requirement. Taught in English.
Course may be repeated as topic varies.

ITAL 449 - Italian Culture Through Films
Studies relationship of Italian cinema to Italian culture. Examines particular genres, directors and traditions unique to Italian cinema.
Credits: 3
Prerequisites: Nine credits of English Composition and Literature. Taught in English.
Notes: Satisfies the International and Humanities Requirement.

ITAL 462 - Dante's Divine Comedy
A select reading in the Divine Comedy with some reference to Dante's other works, Convivio, Monarchia, and Vita Nuova.
Credits: 3
Prerequisites: Nine credits of English composition and literature.
Notes: Taught in English. This course is cross-listed with ITAL 662. Credit at the 600-level requires additional work.

ITAL 463 - Boccaccio's Decameron
Reading of Boccaccio's Decameron within the Italian novella tradition.
Credits: 3
Prerequisites: Nine credits of English composition and literature.
Notes: Taught in English. This course is cross-listed with ITAL 663. Credit at the 600-level requires additional work.

ITAL 487 - Study Abroad in Foreign Language, Literature, or Culture IV
Senior-level course work in Italian language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: ITAL 287.
May be repeated to a maximum of thirty credits.

ITAL 490 - Topics in Italian Studies
Comprehensive study of a particular aspect of Italian life, art, history and culture.
Credits: 3
Prerequisites: nine credits of English composition and literature.
Notes: Satisfies the International and Humanities Requirement. Taught in English.
Course may be repeated as topic varies.

JPN 113 - Elementary Japanese I
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Notes: Satisfies Humanities and International Requirements. See department for placement.

JPN 114 - Elementary Japanese II
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Prerequisites: JPN 113 or equivalent.
Notes: Satisfies Humanities and International Requirements. See department for placement.

JPN 213 - Intermediate Japanese I
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: JPN 114 or equivalent achievement on the placement test.
Notes: Satisfies Humanities and International Requirements.

JPN 214 - Intermediate Japanese II
Structural review, conversation, reading, and writing.
Credits: 3
Prerequisites: JPN 213 or equivalent.
Notes: Satisfies Humanities and International Requirements.

JPN 301 - Third-Year Japanese I
Development of speaking and listening skills. Authentic texts introduced with the aim of achieving basic literacy in modern written Japanese.
Credits: 3
Prerequisites: JPN 214 or equivalent achievement on the placement test.
Notes: Satisfies Humanities and International Requirements.

JPN 302 - Third-Year Japanese II
Development of speaking and listening skills. In addition, authentic texts introduced with the aim of achieving basic literacy in modern written Japanese.
Credits: 3
Prerequisites: JPN 301 or equivalent achievement on the placement test.
Notes: Satisfies Humanities and International Requirements.

JPN 401 - Advanced Japanese Composition I
Composition course designed to improve writing skills for students at the senior level with an emphasis on stylistics.
Credits: 3
Prerequisites: JPN 302.
Notes: Taught in Japanese.

JPN 416 - Japanese for Business I
Study of vocabulary and culture knowledge required in Japanese-speaking business setting. Includes a review of grammar, reading, and writing exercise to develop fluency in business-related communicative situations.
Credits: 3
Prerequisites: JPN 302.
Notes: Taught in Japanese.

JPN 417 - Japanese for Business II
Designed for students who have completed JPN 416 and wish to familiarize themselves with common rules as well as practices of Japanese in business setting and to acquire further ready-to-use communicative skills in business Japanese at various levels of formality.
Credits: 3
Prerequisites: JPN 416.
Notes: Taught in Japanese.

JPN 425 - Topics in Japanese Culture
For students who have completed JPN 302 and who wish to broaden their knowledge of the Japanese language, society and culture.
Credits: 3
Prerequisites: JPN 302.
Notes: Taught in Japanese.
May be repeated to a maximum of six credits.
Same as AIS 425

LAT 113 - Elementary Latin I
First-year Latin grammar, reading, and vocabulary building.
Credits: 3
Prerequisites: See department for placement.
Notes: Satisfies the Humanities Requirement.

LAT 114 - Elementary Latin II
First-year Latin grammar, reading, and vocabulary building.
See department for placement.
Credits: 3
Prerequisites: LAT 113
Notes: Satisfies the Humanities Requirement.

LAT 213 - Intermediate Latin I
Intermediate Latin grammar, reading, and vocabulary expansion.
Credits: 3
Prerequisites: LAT 114
Notes: Satisfies the Humanities Requirement.
LAT 214 - Intermediate Latin II
Intermediate Latin grammar, reading, and vocabulary expansion.
Credits: 3
Prerequisites: LAT 213
Notes: Satisfies the Humanities Requirement.

LAT 331 - Latin Literature in Translation
Selected masterpieces of Latin literature in English translation.
Credits: 3
Prerequisites: Nine credits of English composition and literature.
Notes: Satisfies the Humanities Requirement.

SPAN 113 - Elementary Spanish I
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Notes: Satisfies Humanities and International Requirements. See department for placement exam.

SPAN 114 - Elementary Spanish II
Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking.
Credits: 3
Prerequisites: SPAN 113
Notes: Satisfies Humanities and International Requirements. See department for placement exam.

SPAN 115 - Intensive Spanish
Combination of SPAN 113 and SPAN 114. Development of language skills in listening, speaking, reading, and writing; structural analysis.
Credits: 6
Notes: Satisfies Humanities and International Requirements. See department for placement exam.

SPAN 126 - Introduction to Spanish for Heritage Speakers
This course focuses on expanding intermediate-level vocabulary, developing oral and written skills to prepare students for second year courses. The course was designed for students who grew up, or spent significant amounts of time, in a Spanish-speaking environment but need to develop vocabulary and written skills.
Credits: 3
Notes: Satisfies International Requirement. See department website "Spanish placement" for placement, or contact department office.

SPAN 187 - Study Abroad in Foreign Language, Literature, or Culture I
Elementary course work in Spanish language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

SPAN 198 - Reading Proficiency in Spanish for Graduate Students
Enables graduate students to develop vocabulary and skill in rapid reading of Spanish through translation into English. Taught in English.
Credits: 3
Prerequisites: Graduate standing.

SPAN 213 - Intermediate Spanish I
Grammar, conversation, reading, and writing.
Credits: 3
Prerequisites: SPAN 114
Notes: Satisfies Humanities and International Requirements. Not open to students who have credit for SPAN 226 -227.

SPAN 214 - Intermediate Spanish II
Grammar, conversation, reading, and writing.
Credits: 3
Prerequisites: SPAN 213 or equivalent.
Notes: Satisfies Humanities and International
Requirements. Not open to students who have credit for SPAN 226-227.

SPAN 226 - Spanish for Heritage Speakers I
Intended for students who have a Spanish language background but little or no formal training. Emphasis on writing skills, grammar, and vocabulary enrichment.
Credits: 3
Prerequisites: SPAN 126
Notes: Satisfies Humanities and International Requirements. See department website "Spanish placement" for placement, or contact department office. Not open to students who have credit for SPAN 213-214. Same as LAS 227A

SPAN 227 - Spanish for Heritage Speakers II
Intended for students who have a Spanish language background but little or no formal training. Emphasis on writing skills, grammar, and vocabulary enrichment.
Credits: 3
Prerequisites: SPAN 226 or departmental placement exam.
Notes: Satisfies Humanities and International Requirements. See department website "Spanish placement" for placement or contact department office. Not open to students who have credit for SPAN 213-214.

SPAN 287 - Study Abroad in Foreign Language, Literature, or Culture II
Intermediate course work in Spanish language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
May be repeated to a maximum of thirty credits.

SPAN 300 - Spanish Grammar
The course will focus on intermediate high Grammar necessary to read, write and speak on Spanish 300-level course.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227

Notes: Satisfies Humanities Requirement. Students who have completed SPAN 302 may not take this class.

SPAN 301 - Third-Year Spanish: Conversation and Composition
Intensive practice in oral Spanish at the third-year level; includes some review of certain key grammar points and development of writing skills. Not open to heritage speakers or others who speak Spanish with native fluency.
Credits: 3
Prerequisites: Instructor/Department Consent. Not open to heritage speakers or others who speak Spanish with native fluency.
Notes: Satisfies Humanities and International Requirements.

SPAN 302 - Third-Year Spanish: Grammar and Composition
Review of key grammar points and development of writing skills.
Credits: 3
Corequisites: May be taken before, after, or concurrently with, SPAN 301.
Prerequisites: SPAN 214 or SPAN 227.
Notes: Satisfies Humanities and International Requirements.

SPAN 304 - Introduction to Hispanic Linguistics
Provides a general overview of Hispanic linguistics, with emphasis on the phonology, morphology, and syntax of modern Spanish within a theoretical framework.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227
Taught in Spanish.

SPAN 312 - Spanish Phonetics and Phonology
Study of the sound system of Spanish, especially as contrasted with English. Spanish pronunciation practice designed to achieve greater authenticity as well as to teach a native-like pronunciation to others.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227
Same as LAS 312

SPAN 315 - Introduction to Translation
Introduction to the theory of translation and guidance in the use of materials essential to the translation process. Practice in the translation of texts in various fields from Spanish into English and English into Spanish.
Credits: 3
Prerequisites: SPAN 302.

SPAN 317 - Interpretation I
Introduction to the profession of interpreter. Students practice techniques of consecutive, simultaneous, and sight interpreting while expanding their knowledge of the terminology used by interpreters in a variety of settings, with emphasis on court interpretation.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227

SPAN 341 - Introduction to Spanish Literature I
Comprehensive view of Spanish literature from its beginnings to the present day.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227

SPAN 342 - Introduction to Spanish Literature II
Comprehensive view of Spanish literature from its beginnings to the present day.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227

SPAN 343 - Introduction to Spanish American Literature I
Comprehensive view of Spanish American literature from its beginnings to the present day.
Credits: 3
Prerequisites: SPAN 341 or SPAN 342 or SPAN 344

SPAN 344 - Introduction to Spanish American Literature II
Comprehensive view of Spanish American literature from its beginnings to the present day.

Credits: 3
Prerequisites: SPAN 214 or SPAN 227

SPAN 350 - Topics in Hispanic Literature
Topics may focus on a single author or novel, on a particular theme or period in Hispanic literature.
Credits: 3
Prerequisites: SPAN 341 or SPAN 342 or SPAN 343 or SPAN 344
May be repeated up to three times provided the subtitle is different.

SPAN 364 - Spanish for Marketing
The student will acquire vocabulary and general knowledge in marketing, with an emphasis in Latin America. The objectives are to understand market research processes, describe, analyze and evaluate marketing strategies for positioning, launching and commercialization of products and services in Latin American countries.
Credits: 3
Prerequisites: SPAN 302

SPAN 365 - Business Spanish I
Foundation in business vocabulary, the study of basic business and cultural concepts, and practice in situations necessary for function in today’s Spanish-speaking business world. Includes a review of grammar, reading and writing exercise, and the use of World Wide Web for Spanish-language resources.
Credits: 3
Prerequisites: SPAN 302
Notes: Taught in Spanish.

SPAN 366 - Business Spanish II
Foundation in business vocabulary, the study of basic business and cultural concepts, and practice in situations necessary for function in today’s Spanish-speaking business world. Includes a review of grammar, reading and writing exercise, and the use of World Wide Web for Spanish-language resources.
Credits: 3
Prerequisites: SPAN 365.
Notes: Taught in Spanish.

SPAN 367 - Spanish for the Social Services
Study of the main socio-cultural characteristics of the Hispanic world and the specialized vocabulary and the specific situations related to social services. Includes advanced readings, in Spanish, from corresponding fields.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227
Notes: Taught in Spanish.

SPAN 368 - Spanish for the Tourism Industry
Advanced study of vocabulary and specific situations related to the tourism industry. In addition to grammar review, includes translating and interpreting activities that match real world demands.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227
Notes: Taught in Spanish.

SPAN 369 - Spanish for the Legal Profession
Solid foundation in the vocabulary and discourse related to areas such as family law, property, insurance, immigration, international finance, and business law. Presented within specific American contexts and aimed at cross-cultural understanding. Includes the development of speaking, listening, reading, and writing necessary for these fields.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227
Notes: Taught in Spanish.

SPAN 370 - Spanish for the Medical Profession
Development of a wide, practical knowledge of language related to the health sciences with a focus on the understanding of and interaction with Spanish-speaking patients. Includes pertinent reading, grammar, and vocabulary.
Credits: 3
Prerequisites: SPAN 214 or SPAN 227
Notes: Taught in Spanish.

SPAN 387 - Study Abroad in Foreign Language, Literature, or Culture III
Advanced course work in Spanish language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: SPAN 214 or SPAN 227
May be repeated to a maximum of thirty credits.

SPAN 401 - Reading Proficiency in Spanish
Develops advanced reading skills in Spanish. Covers a broad range of reading materials. Advanced oral proficiency developed through critical discussion of texts.
Credits: 3
Prerequisites: SPAN 302.

SPAN 402 - Advanced Reading and Writing Techniques in Spanish
Further development of advanced reading and composition skills in Spanish. Readings used to study the organization, underlying structures, and inner mechanisms of texts.
Credits: 3
Prerequisites: SPAN 302 or SPAN 401.

SPAN 409 - Independent Study
Independent study under the direction of a faculty member.
Credits: 1-3
May be repeated to a maximum of six credits.

SPAN 410 - Topics in Hispanic Linguistics
Study of current approaches to different aspects of Hispanic linguistics.
Credits: 3
Prerequisites: SPAN 226 or SPAN 227 or SPAN 301
May be repeated with a different topic for a maximum of six credits.

SPAN 412 - Advanced Translation
Examines the main aspects of contrastive grammar and stylistics used in Spanish/English translation, while providing practical opportunities to incorporate and apply the material. Through
lectures and practical translation exercises, students are also exposed to a variety of translation fields. Taught in Spanish.

Credits: 3
Prerequisites: SPAN 315
Notes: Taught in Spanish. This course is crosslisted with SPAN 612. Credit at the 600-level requires additional work.

SPAN 413 - Interpretation II
Continuation of Interpretation I. Students practice the techniques of consecutive, simultaneous, and sight interpreting while expanding their knowledge of the terminology used by interpreters in a variety of settings, with an emphasis on court interpretation.

Credits: 3
Prerequisites: SPAN 317
Notes: Taught in Spanish. This course is crosslisted with SPAN 613. Coursework at the 600-level requires additional work.

SPAN 425 - Topics in Hispanic Culture
Analysis of different aspects of Hispanic culture, through art, mass media, and popular traditions.

Credits: 3
Prerequisites: SPAN 302.
Notes: Taught in Spanish.
May be repeated with a different topic for up to six credits.
Same as LAS 425

SPAN 450 - Advanced Topics in Hispanic Literature
In-depth critical study of selected themes, modes, literary forms and strategies in Hispanic literature.

Credits: 3
Prerequisites: SPAN 300 or SPAN 301 or SPAN 302
Notes: This course is cross-listed with SPAN 650.
Credit at the 600-level requires additional work.
May be repeated up to 3 times provided the subtitle is different.

SPAN 487 - Study Abroad in Foreign Language, Literature, or Culture IV
Senior-level course work in Spanish language, literature, or culture. Offered through the Office of International Programs.

Credits: 1-4
Prerequisites: SPAN 301.
May be repeated to a maximum of thirty credits.

SPAN 496 - Spanish Dialectology
Study of different regional varieties of the Spanish language throughout the world, including differences in pronunciation, grammar, and vocabulary. Sociolinguistic aspects also covered.

Credits: 3
Prerequisites: SPAN 302.
Notes: This course is cross-listed with SPAN 696.
Credit at the 600-level requires additional work.
Same as LAS 496 Credit at the graduate-level requires additional work; this course is crosslisted with SPAN 696

WLC 187 - Study Abroad in Foreign Language, Literature, or Culture I
Elementary course work in language, literature, or culture. Offered through the Office of International Programs.

Credits: 1-4
May be repeated for a maximum of thirty credits.

WLC 198 - Reading Proficiency in a Foreign Language for Graduate Students
Enables graduate students to develop vocabulary and skill in rapid reading of target language through translation into English. Target language varies per semester. Taught in English. May not be used toward an FOL degree.

Credits: 3
Prerequisites: Graduate standing.

WLC 287 - Study Abroad in Foreign Language, Literature, or Culture II
Intermediate course work in language, literature, or culture. Offered through the Office of International Programs.
WLC 303 - Comparative Readings in Romance Languages
Simultaneous development of intermediate reading competence in three romance languages: French, Italian, and Spanish. The course is based on intercomprehension techniques to reinforce knowledge of source language structure (L1) while allowing understanding texts written in target languages (L2).
Credits: 3
Prerequisites: FREN 302 or ITAL 302 or SPAN 302

WLC 311 - Current Linguistic Theory
Examination of current linguistic theory, including basic phonetic transcription, speech sounds, forms, and words in the systems of phonology, morphology, and syntax. Language use in society and language change.
Credits: 3
Prerequisites: Two years of university-level foreign language.

WLC 387 - Study Abroad in Foreign Language, Literature, or Culture III
Advanced course work in language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: WLC 287.
May be repeated to a maximum of thirty credits.

WLC 414 - Romance Linguistics
Historical development of the Romance languages from Latin. Comparison of the structure of the modern Romance languages. Emphasis on Spanish, French, and Italian.
Credits: 3
Prerequisites: FREN 214 or ITAL 214 or SPAN 214 or SPAN 227

WLC 416 - Comparative Linguistics: Languages of the World
Material and functioning of languages in human society examined in theory and on the basis of illustrative examples from a variety of different languages, including English. Interdisciplinary course conducted in English.
Credits: 3

WLC 487 - Study Abroad in Foreign Language, Literature, or Culture IV
Senior-level course work in language, literature, or culture. Offered through the Office of International Programs.
Credits: 1-4
Prerequisites: WLC 287.
May be repeated to a maximum of thirty credits.

WLC 499 - Application of Linguistics to the Teaching of Languages
Examination of second language acquisition theory and its application to the teaching of foreign languages.
Credits: 3
Prerequisites: Two years of university-level foreign language.
College of Sciences

Purpose and Focus
Science and technology influence every aspect of our lives. We live in a period marked by astonishing changes in communications, information processing, genetic engineering, materials sciences, medicine, transportation, and our understanding of the universe. The College of Sciences offers courses that equip students to function in this dynamic age, whether as informed citizens or as practicing professionals. Course offerings cover broad areas and enhance one's general understanding of nature, mathematics and technology. Undergraduate majors are introduced to the fundamentals of the natural and mathematical sciences that serve as the foundation for a host of professional careers.

Accreditation
Northwest Commission on Colleges and Universities
American Chemical Society (B.S. in Chemistry)

Departments, Majors, and Undergraduate Degrees

College of Sciences
Professional Development — Professional Development Degree

Department of Chemistry
Biochemistry — Bachelor of Science
Chemistry — Bachelor of Arts
Chemistry — Bachelor of Science

Department of Geoscience
Earth and Environmental Science — Bachelor of Science
Geology — Bachelor of Science

Department of Mathematical Sciences
Mathematical Sciences — Bachelor of Arts
Mathematical Sciences — Bachelor of Science

Mathematical Sciences — Bachelor of Science, Actuarial Science Concentration

Department of Physics and Astronomy
Physics — Bachelor of Science, Physics Concentration
Physics — Bachelor of Science, Applied Physics Concentration
Physics — Bachelor of Science, Computational Physics Concentration

School of Life Sciences
Biology — Bachelor of Science, Cell and Molecular Biology Concentration
Biology — Bachelor of Science, Ecology and Evolutionary Biology Concentration
Biology — Bachelor of Science, Integrative Physiology Concentration
Biology — Bachelor of Science, Microbiology Concentration
Biology — Bachelor of Science, Pre-Professional Concentration

Graduate Degree Programs
Astronomy —
Master of Science in Astronomy, Doctor of Philosophy in Astronomy
Biochemistry —
Master of Science in Biochemistry
Chemistry —
Master of Science in Chemistry
Doctor of Philosophy in Chemistry
Radiochemistry — Doctor of Philosophy in Radiochemistry
Geoscience —
Master of Science in Geoscience
Doctor of Philosophy in Geoscience
Life Sciences —
Master of Science in Biological Sciences
Doctor of Philosophy in Biological Sciences

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Mathematical Sciences —
Master of Science in Mathematical Sciences
Doctor of Philosophy in Mathematical Sciences
Dual Master of Science in Mathematical Sciences / Economics (M.S./M.A.)
Dual Mathematical Sciences and Electrical Engineering (M.S./M.S. - EG)
Dual Mathematical Sciences and Electrical Engineering (M.S./Ph.D. - EG)
Physics —
Master of Science in Physics
Doctor of Philosophy in Physics
Science —
Master of Arts in Science (M.A.S.)
Water Resources Management —
Master of Science in Water Resources Management

Minors
Actuarial Science
Biological Sciences
Chemistry
Earth and Environmental Science
Geology
Mathematics
Physics
Physical Geography
Statistics

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Sciences.

Admission to the College
Minimum GPA: 2.50

Students must also satisfy department GPA requirements before being admitted to a major within the College.

Admission Policies
A cumulative grade point average of at least 2.50 is required for entrance into the College of Sciences.

The College of Sciences at UNLV requires incoming freshmen students to meet or exceed Nevada System of Higher Education (NSHE) requirements for placement into a college-level gateway course in Mathematics (e.g., MATH 124, 126, or higher) in order to declare a major in one of the major disciplines offered by the College of Sciences.

To declare a major in the College of Sciences, students must satisfy one of the following NSHE and UNLV requirements for placement into a college-level gateway course in Mathematics:

- ACT mathematics score of 23 or better.
- SAT mathematics score of 550 or better.
- Smarter Balanced result of 2628 (Achievement Level 3).
- PARCC result of 4.
- UNLV Mathematics placement test score (online or written) into MATH 126 Precalculus I.
- ALEKS score of 61 or better.

Students who do not meet these minimum mathematics requirements will be able to enroll and take courses at UNLV if they enter the UNLV "Exploring Majors" Program. As a member of the Exploring Majors Program, students will be required to meet and work with advisors in the Academic Success Center, enroll in suitable mathematics courses or bridge programs as directed by their advisors, and enroll in the First Year Seminar (101) course designed for the Exploring Majors Program. Students in the Exploring Majors Program who subsequently meet the minimum requirements of completion of the First Year Seminar with a grade of "C" or higher and MATH 126 Precalculus I with a grade of "C" or higher may then formally declare a major within the College of Sciences.

See additional admission policies of individual departments.
Transfer Policies
The College of Sciences adheres to the University of Nevada, Las Vegas policies for transfer students found elsewhere in this catalog. The college urges all transfer students to meet an advisor without delay after admission in order to evaluate the applicability of previous course work to department majors and graduation requirements.

College Policies
Probation
A student will be placed on probation within the college for any of the following reasons:

1. The student's cumulative GPA falls below 2.00.
2. The student's semester GPA is below 2.00 for all degree courses.
3. The student receives D, F, or I grades in more than two courses in one semester.

English and math requirements should be taken during the student's first year at UNLV, but no later than the end of the second. Please see the catalog Admissions Section for current ACT/SAT placement test scores that will guide placement in the appropriate English and math class.

Requirements for Probationary Students
Once a student has been placed on probation as a major in a department of the college, the following guidelines apply:

The student must meet with an advisor to design and agree upon a probationary course of study. This course of study must include at least 15 credits that apply toward a degree in the major, with a majority of the credits coming from courses in the college, unless all requirements within the college have been completed. Specific courses will be selected in consultation with the advisor based on the student's previous progress and on established degree program requirements. Upon agreement on a course of study, the advisor will place a memorandum outlining the course of study in the student's file.

Students are expected to complete the probationary course of study within two consecutive semesters and one summer. With approval of the faculty advisor, three consecutive semesters (and the intervening summer) may be allowed if course schedules make it necessary. Students who complete the probationary course of study within the allotted time with a cumulative GPA (for the course of study only) of at least 2.00 will be removed from probation.

Students should consult the listings for individual departments within the college for any specific requirements concerning probationary status.

Suspension
A student on probation will be suspended from the college for the following reasons:

1. The student fails to maintain a GPA of at least 2.00 in a probationary course of study within the allotted time period.
2. The student's cumulative grade point balance is -15 or lower.
3. The student has received D, F, or I grade in more than 25 percent of all degree courses taken.

Readmission
A suspended student may apply for readmission to the college after a full calendar year has elapsed. The readmitted student will enter the college on probation and must follow the requirements for probationary students as outlined above. Under these rules, the student may be suspended a second and final time.

Advisement
Students interested in majoring in any curricular area of the college should consult an advisor in the appropriate department or in the office of the College of Sciences Advising Center for further information concerning scheduling of courses, and
curricular revisions too recent to appear in this catalog. It is required that all incoming transfer students obtain advising from the College of Sciences Advising Center prior to the first semester of classes. Freshmen are required to obtain advising before enrolling in their first semester classes at UNLV. As well, those students with any questions regarding degree requirements and graduation applications should contact the Advising Center.

Upperclassmen are encouraged to meet with a faculty advisor regarding career information and graduate/professional schools. Information pertaining to graduate degree programs, including instructions for undergraduate enrollment in graduate courses, is found in the UNLV Graduate Catalog.

Degree Requirements
The graduation requirements outlined below apply to all majors in the College of Sciences.

1. The General Education Core requirements of the university (see Academic Policies section).
2. A total of at least 120 credits with at least 40 credits in courses numbered 300 or higher.
3. The specific requirements for the degree being sought (see departmental listings).
4. A cumulative GPA of at least 2.00 for all courses in the major field.

Health-Related Pre-Professional Students
In addition to pursuing a degree program, many students plan to seek admission to health-related professional schools that provide advanced degrees in specialties such as medicine, osteopathic medicine, veterinary medicine, dentistry, optometry, pharmacy, podiatry, or chiropractic. The College of Sciences provides a complete array of courses that are required by professional schools for admittance. Students who plan to apply to a professional school should be aware of the UNLV Pre-Professional Interview Committee. This committee consists of faculty from a variety of disciplines, including non-science areas and health care professionals from the community. The committee interviews students prior to their applications to professional schools and writes letters of recommendation. When students are ready for their pre-professional interviews (normally in the spring semester of their junior year), they should contact the Office of the Pre-Professional Advisor 702-895-3170 in order to obtain a Pre-Professional interview packet, which contains information and instructions about the interview process. Regardless of the specific major or curricular path within a major that is chosen, students will find excellent Pre-Professional training available in the college.

Certification for Teaching Science or Mathematics in Secondary Schools
Students wanting to prepare themselves to teach science or mathematics at the secondary school level should be aware of the special requirements for teacher certification. It is recommended that these students major in one of the degree programs in the College of Sciences, make their interest in teaching known to their advisor, and consult the College of Education section of this catalog to become aware of specific teacher certification requirements and the availability of the minor in Secondary Education.
Professional Development Degree in Science and Education (PDDSE)

This post-baccalaureate degree is intended for persons who hold at least a bachelor’s degree and are eligible for or hold a teaching certificate (option A) or who hold at least a bachelor’s degree in science, mathematics, or applied science and wish to qualify for a teaching certificate in science or mathematics (option B). The program is intended to deepen and/or broaden the student's background toward those ends. The program consists of a minimum of 24 credits of appropriate course work and is planned with the help of an advisor to meet the needs of individual students. The program plan must be approved by the PDDSE Program Committee consisting of the deans of the College of Sciences and the College of Education or their designees.

Admission
The applicant must possess at least a bachelor’s degree in mathematics or a pure or applied science degree or at least a bachelor’s degree in any field that qualifies the applicant to hold a valid teaching certificate. Applicants must have as a career objective the goal of teaching science or mathematics in the common schools.

Prerequisite Courses
MATH 126 - Precalculus I (Precalculus mathematics I or equivalent)
and either
CHEM 121A - General Chemistry I/ CHEM 121L - General Chemistry Laboratory I (General Chemistry I or equivalent)
or
PHYS 151 - General Physics I
PHYS 151L - General Physics I
or
PHYS 180L - Physics for Scientists and Engineers Lab I
PHYS 180 - Physics for Scientists and Engineers I
Any of these courses may be taken during study for the degree but will not count in the required 24 credits.

Option A
This option is for students who hold at least a B.A./B.S. in any field and who hold or would qualify for a teaching certificate. The student must complete a program of study constructed with the aid of an advisor and approved by the PDDSE Program Committee. The course work will provide the background and competency necessary to instruct in a field or fields of specialization. Generally, this will require the student to meet a major or minor teaching certificate endorsement in mathematics or one of the sciences, or the broad field science option as specified by the Nevada Department of Education. Minimum requirements in the fields available are listed below:

<table>
<thead>
<tr>
<th>Minor</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences</td>
<td>24 credits</td>
</tr>
<tr>
<td>General Science</td>
<td>24 credits</td>
</tr>
<tr>
<td>Mathematics</td>
<td>16 credits</td>
</tr>
</tbody>
</table>

The student must also complete a special methods course for the teaching area of specialization.

Option B
This option is for students who hold at least a B.A./B.S. in science, an applied science, or mathematics. The student must complete a program of study drawn up with the help of an advisor and approved by the PDDSE Program Committee. This includes course work in mathematics or science needed to fulfill requirements for a major or minor in at least one area of teaching specialization, the appropriate teaching methods course(s), and those professional education courses specified by the Nevada Department of Education as necessary for certification as a teacher.
Program Completion Requirements
Students enrolled in either Option A or Option B must complete the following program requirements.

1. A minimum of 24 credits at UNLV. With permission of the advisor, up to seven credits that were earned subsequent to the award of the bachelor's degree may be transferred from another accredited institution of higher learning. No course in which the grade was C- or lower will be accepted.

2. A minimum cumulative grade point average of 2.50 or above in courses that appear on the official program, exclusive of prerequisites.

3. Completion of:
   MATH 127 - Precalculus II (Precalculus Mathematics II) or equivalent and completion of one of the following:
   CHEM 122A - General Chemistry II/ CHEM 122L - General Chemistry Laboratory II (General Chemistry II Lab) or equivalent
   PHYS 152 - General Physics II
   PHYS 152L - General Physics II or equivalent
   PHYS 181 - Physics for Scientists and Engineers II
   PHYS 181L - Physics for Scientists and Engineers Lab II or equivalent
   PHYS 182 - Physics for Scientists and Engineers III
   PHYS 182L - Physics for Scientists and Engineers Lab III

The intent is that students complete at least one year of general chemistry or one year of general or engineering physics.

College of Science Course Descriptions:
SCI 101 is a first year course (fulfills First Year Seminar requirement) designed to foster understanding of scientific methodology, discourse, and ethics, develop analytical and critical thinking skills, and to help students explore, discover, and connect with the university and its academic and scientific resources.

SCI 499 is a seminar course designed to develop and hone leadership skills for undergraduate students. Students acquire skills required for proctoring examination, tutoring of undergraduate students, teaching undergraduate students, and peer advising. Students also receive education regarding ethics that are essential for all responsibilities. Prerequisite: Sophomore standing and cumulative GPA of 3.0 or higher.
Purpose and Focus
Biology is the study of life. The earth is filled with an enormous variety of living organisms; therefore, an understanding of the basic biological processes common to all organisms is essential to understanding the world. In recent decades, great strides have been made in understanding important biological processes, particularly those at the molecular, cellular, and ecosystem levels. An understanding of biological systems depends, in part, on the principles of physics and chemistry; thus a firm background in the physical sciences is also important in the study of biology. For many, an undergraduate major in biology serves as a basis for postgraduate study in the life sciences. School of Life Sciences graduates have gone on to advanced graduate study, leading to careers in college or university teaching, basic and applied research, and public health. Many have entered professional programs in medicine, veterinary medicine, and dentistry. Other graduates have gone directly into secondary (high school) science teaching, the biomedical industry, independent laboratory research, natural resources management, or environmental education.

Accreditation
Northwestern Commission on Colleges and Universities

Undergraduate Major
Biological Sciences

Degree Objectives/Learning Outcomes
The primary mission of the School of Life Sciences is to provide a rich, contemporary learning environment that ensures an integrated educational experience spanning the full spectrum of biology, with focused training available to advanced undergraduate students. Through these efforts, the School of Life Sciences will occupy central roles in creating scientific literacy among the diverse array of UNLV students and in addressing biological issues of local, regional, and global interest.

Students who graduate with a major in biology at UNLV will acquire:

1. Knowledge of the diversity and similarity of living organisms at organizational levels ranging from molecules to the community.
2. Knowledge of processes of inheritance and natural selection as they influence the characteristics of populations and species.
3. Knowledge of scientific methods and the relationships among theory, experiment, analysis of data, and general knowledge.
4. The ability to articulate, in verbal and written form, knowledge of biology, biological methods, and biological issues in context.

Learning Outcome
Students who graduate with a major in biology will have fulfilled their personal expectations and will indicate they have been accepted to a graduate or professional school or an entry-level career position.

Areas of Concentration
Biological Sciences majors at the university have a choice of five areas of specialized study (concentrations) that prepare them for a variety of professional fields. In addition to attending graduate, medical, and other professional schools, Biological Sciences majors may move directly to governmental and private-sector careers in such fields as health care, laboratory sciences, environmental sciences, and teaching. All concentrations provide the necessary background for application to graduate programs and medical or health science professional schools, differing mainly in their emphasis on specialized career trajectories within the life sciences.
Biology — Cell and Molecular Biology
The Cell and Molecular Biology concentration provides Biological Sciences majors with the intellectual tools essential for careers in biotechnology and biomedical science research as well as for transition to graduate Ph.D. programs in Biology, and in Cell and Molecular Biomedical research.

Biology — Ecology and Evolutionary Biology
This concentration is recommended for those students who desire a strong foundation in evolution and the conceptual explanatory core of biology, as well as those whose interests are at the interface between organisms and their environments — that is, ecology. Ecology and Evolutionary Biology students are well-prepared for advanced graduate education in the Biological sciences and for careers in Environmental Biology research in teaching and in natural resources assessment and management.

Biology — Integrative Physiology
The Integrative Physiology concentration provides the biology major with the intellectual and technical tools essential for success in a broad array of life sciences careers including application to all the health care-related professional schools, graduate school or related postgraduate study as well as biomedical science research. Integrative Physiology provides an in-depth examination of how animals and/or plants work from the molecular/cellular level of organization to a systems-level understanding (cardiac, vascular, temperature regulation etc.) and up to the integration of physiology with behavior and evolutionary processes. The integrative nature of this program provides the student with a solid foundation in fundamental areas of biology yet allows a wide choice in course selection ranging from molecular, physiological, ecological, and evolutionary biology.

Biology — Microbiology
The Microbiology concentration provides the biology major with the intellectual and technical skills required for success in the broad area of microbiology, which includes clinical, environmental, ecological, evolutionary, molecular, metabolic, and physiological perspectives of microbes, including aspects of virology and immunology. The skills obtained in this concentration provide training for an array of life sciences careers, including application to all the health care-related professional schools, appropriately related graduate schools, or related postgraduate study as well as biomedical science research. The Microbiology concentration focuses on how microbes function at a variety of levels of organization, from understanding the genetics of micro-organisms, their gene regulation environmental interactions, metabolic regulation, and ecological interactions. Microbiology impacts all levels of biological organization, and as such, students majoring in Biology with a concentration in microbiology are provided with a solid foundation in the life sciences yet are exposed to an in-depth understanding of microbial processes.

Biology — Pre-Professional
The Preprofessional Biology concentration provides Biological Sciences majors with the intellectual tools essential for application to health care-related professional schools, including medical, dental, veterinary, optometric, and related programs.

Biological Sciences - Pre-Professional Biomedical Studies (BS)

Biology Major - Bachelor of Science (BS)

Please see the UNLV College of Sciences, Biology department web page at www.unlv.edu/lifesciences for information about department programs, faculty and

Please see advising information at the UNLV College of Science Advising at www.unlv.edu/sciences/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
All students graduating with a Bachelor of Science in Biological Sciences should be able to:

*Outcomes marked with an asterisk apply to students graduating with a minor in Biological Sciences.

1. Understand the nature of scientific knowledge.
   - Describe the differences between opinions, facts, and scientific theories
   - Appropriately utilize the scientific method within the laboratory environment
   - Apply their understanding of the scientific method to successfully design an experiment
   - Critically analyze scientific content presented both orally and in writing

2. Understand cell structures and functions.
   - Explain the similarities and differences between prokaryotic and eukaryotic cells
   - Explain the similarities and differences between plant and animal cells
   - Describe the structure and function(s) of common eukaryotic organelles (nucleus, ribosomes, rough and smooth endoplasmic reticulum, Golgi apparatus, vesicles, lysosomes, mitochondria, chloroplasts, peroxisomes, vacuoles, and cytoskeleton)
   - Diagram the structure of an animal cell membrane, including the phospholipid bilayer, cholesterol, proteins, and carbohydrates
   - Explain the functions of the cell membrane, including passive and active transport and communication/information processing

3. Understand the physical nature of genetic information.
   - Describe the structure of DNA
   - Diagram the basic structure of a gene, including regulatory and coding sequences
   - Explain how genetic information is used in reproduction, including the processes of mitosis and meiosis
   - Explain how genetic information is utilized during transcription, translation, DNA replication, and cell division
   - Explain how genetic information can be changed through processes of mutation
   - Explain how epigenetic regulation of gene expression can occur

4. Understand that all organisms are genetically related, have evolved, and are evolving.
   - Explain the relationship between genetic information, physical characteristics, and the environment
   - Provide a timeline of major evolutionary events describing the emergence of the main forms of life (prokaryotes, eukaryotes, multicellular life, fungi, plants, insects, fish, amphibians, reptiles, birds, mammals)
   - Articulate the mechanisms of evolution including mutation, selection, and speciation
• Apply their understanding of evolutionary relationships to accurately interpret phylogenetic trees
• Explain experimental techniques used to investigate evolution

5. Understand the metabolic complexity of cells and organisms.

• Provide examples of diverse mechanisms used by cells/organisms to extract energy from the environment
• Explain the reactions of energy transformation that occur in mitochondria, chloroplasts, microbes, and multicellular organisms
• Provide examples of diverse mechanisms used by cells/organisms to synthesize biological molecules
• Explain how cells/organisms regulate the internal environment

6. Understand the complex interplay of how organisms respond to and interact with each other and their environment.

• Describe how interactions change as the scale of life transitions from cells to ecosystems
• Articulate the different patterns of population growth and explain the environmental factors that underlie each pattern
• Explain community structure and the various forms of biodiversity
• Provide examples of the types of interactions that can occur between community members, including competition, predation, parasitism, coexistence, mutualism, and commensalism
• Explain how communities can respond to disturbances
• Discuss the interactions that occur between organisms and the nonliving components of their environment, including the role of biogeochemical cycling

7. Effectively communicate complex biological concepts, orally and in writing.

• Effectively discuss individual biological concepts in short written format such as a two to four paragraph response
• Effectively articulate the relationships between many biological concepts in an extended written format such as an eight to ten-page paper
• Effectively explain individual biological concepts in a ten to fifteen-minute oral presentation
• Effectively answer questions from the audience following an oral presentation
• Summarize key points from a peer-reviewed journal article in a written report or during a group discussion

8. Fulfill their professional goals.

• In addition to the outcomes listed above, concentration specific outcomes are as follows:

Cell and Molecular Biology

• Explain the interrelationship between chemistry and biology, including how physical and chemical laws influence the structure and function of intracellular components and macromolecules.

Ecology and Evolutionary Biology

• Articulate in detail the interactions organisms have with each other and with nonliving components of the environment and how organisms and environments change over time.

Integrative Physiology

• Explain how cells and organisms acquire and process nutrients, transform energy, and maintain homeostasis in a variable environment to survive and reproduce.

Microbiology

• Explain the diversity and similarity of microbes, including their physiology,
mechanisms of pathogenesis and host defenses, and unique ecology.

Pre-professional

- Become competitive candidates for admission into professional schools.

University Graduation Requirements

- Please see Graduation Policies for complete information

Admission

Admission Policies

Minimum GPA Requirement: 2.50

Prospective biology majors with a GPA less than 2.50, but at least 2.0, may be admitted on probationary status. A student placed on probation must meet with an advisor to design and agree upon a probationary course of study based on the student's previous progress and on established degree program requirements. This course of study must include at least 15 credits that apply toward a degree in the major, with a majority of the credits coming from courses in the college, unless all requirements within the college have been completed by the student. The advisor will place a memorandum outlining the course of study in the student’s file. Students are expected to complete the probationary course of study within two consecutive semesters and one summer. Students who complete the probationary course of study within the allotted time with a cumulative GPA of at least 2.00 will be removed from probation.

Biological Sciences Major:

Course requirements:

Biological Sciences majors must complete a set of required 100-level science, math, and composition classes with a satisfactory grade before they can enroll in more advanced 300- and 400-level biology classes. In the first two semesters the typical student will complete the seven biology, chemistry, math, and composition courses listed below with a C or better (C- is not sufficient) as a prerequisite for enrollment in any upper division biology course. These courses, which satisfy university and science major requirements (22 credits), are typically taken in the freshman year:

- BIOL 196 and BIOL 197
- CHEM 121A, 121L and CHEM 122A, 122L
- MATH 181 or MATH 127 or MATH 128
- ENG 102 or ENG 114 or HON 100

With satisfactory completion of these classes ("C" or better in each class), students will be able to enroll in 300- and 400-level biology classes, subject to any additional prerequisites listed in the course catalog.

If a student does not earn a "C" or better the first time they take a required course, it is expected that they will repeat the course one time and utilize available resources to improve their academic performance. Continuation as a biology major requires a C or better (C- is not sufficient) in each course (or equivalent transferred from another institution).

Transfer Policies

Transfer students must have a minimum GPA of 2.50. All students are required to meet with an advisor to determine course work that can be used to satisfy degree requirements. Biology, chemistry, physics and math transfer courses will be accepted to fill specific degree requirements only with a grade of C or better.

Although rare, it is possible for superior pre-professional students to gain admission to a professional school upon completion of 94 units of undergraduate work. Such students may, under certain circumstances, be awarded a baccalaureate degree from UNLV upon successfully completing one year of full-time study with courses equivalent to the School of Life Sciences major at the professional school. To apply for a degree after one year of professional school, students must have completed 94 units at UNLV with a GPA of 3.50 and meet university and college graduation
requirements. Any student contemplating such a program must obtain approval from the departmental chair and college dean in advance of departure from UNLV.

Community College Articulation
The School of Life Sciences has course articulation agreements with several community colleges both within and outside Nevada. For specific information about transfer of credits from two-year institutions, students should seek advising about specific courses of study from the department.

Department Policies

Academic Policies:
In addition to the General Education Core requirements, all study courses must include a minimum of 39 credits in the Biological Sciences and satisfy the specific requirements of one of the five concentration areas offered by the department.

In accord with UNLV requirements, at least 40 credits must be earned in upper-division-level courses. This requirement may be satisfied by selecting courses within and outside the School of Life Sciences.

To graduate with a degree in the biological sciences, a cumulative GPA of at least 2.00 must be maintained for all courses in the major field (BIOL). All BIOL core courses taken (BIOL 196, 197, 300 or 304, 351, and 415) must be passed with a grade of C or better to fulfill prerequisites for other upper-division courses and to apply to the B.S. degree in Biological Sciences.

BIOL 100, 104, 109, 113, 189, 120, 121, 122, 148, 208, 220 are designed for non-biology majors and do not fulfill the School of Life Sciences curricular requirements. Although these credits will apply to the general university total credit requirement; or might be required or advised for other programs or career tracks (e.g., primary or secondary teaching), they are not recommended for Biological Sciences majors and do not fulfill any requirements for the biology major. The faculty of the School of Life Sciences urge all new majors in the department to enroll in and promptly complete fundamental course work, which will serve as a foundation for success in the study of the life sciences. By the end of the second full year of study (or its equivalent), Biological Sciences Instructors will expect that Biological Sciences majors in all concentrations will have completed: ENG 101 and 102; MATH 127, 128 or MATH 181; CHEM 121A and CHEM 122L and CHEM 122A and CHEM 122L; and PHYS 151/151L and 152/152L (or the equivalent from the PHYS 180 series). BIOL course content will reflect these expectations.

Advisement
All majors in the School of Life Sciences are required to meet with an advisor once a year at the College Advising Center located in Paul McDermott Physical Education Building.

Biology Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 33-36 Credits

First-Year Seminar - Credits: 2-3
(see note 1 below)

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics
- MATH 181 - Calculus I - Fulfilled by the major requirement
Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 Credits**
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- **Social Science: 9 Credits**
  - One course each from three different fields.

- **Life and Physical Sciences and Analytical Thinking:**
  - Automatically satisfied by Major requirements

Multicultural and International

(see note 2 below)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: https://www.unlv.edu/facultysenate/student-resources

Milestone Experience

- BIOL 351 Microbiology - Fulfilled by the major requirement

Culminating Experience

- BIOL 415 Evolution - Fulfilled by the major requirement

Major Requirement - BS in Biology - Cell and Molecular Biology Concentration - Subtotal: 78 Credits

(see notes 1-6 below)

**Biology Core Requirements - Credits: 20**

- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics or
- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

**Other Required Courses - Credits: 34**

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences or
- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Recommended Course

- MATH 182 - Calculus II
Cell and Molecular Biology Concentration
- Credits: 24
  - CHEM 475 - Biochemistry II

A minimum of four courses from list below:
  - BIOL 405 - Molecular Biology
  - BIOL 409 - Virology
  - BIOL 425 - Genomics
  - BIOL 445 - Cell Physiology
  - BIOL 453 - Immunology
  - BIOL 460 - Microbial Physiology
  - BIOL 464 - Bacterial Pathogenesis
  - BIOL 466 - Developmental Biology
  - BIOL 470 - Topics in Applied Microbiology
  - BIOL 478 - Genetics and Cell Biology of Cancer

Remaining credits (to total of 24) selected from course focus lists A-C with a minimum of one course from each list A-C.

List A: Focus on Cell Structure and Function
  - BIOL 405 - Molecular Biology
  - BIOL 409 - Virology
  - BIOL 425 - Genomics
  - BIOL 445 - Cell Physiology
  - BIOL 453 - Immunology
  - BIOL 460 - Microbial Physiology
  - BIOL 464 - Bacterial Pathogenesis
  - BIOL 466 - Developmental Biology
  - BIOL 470 - Topics in Applied Microbiology
  - BIOL 478 - Genetics and Cell Biology of Cancer
  - BIOL 485 - Microbial Genetics

List B: Focus on Organismal Structure and Function
  - BIOL 348 - Introduction to Human Anatomy
  - BIOL 414 - Endocrinology
  - BIOL 417 - Biochemical Adaptations
  - BIOL 426 - Plant Anatomy
  - BIOL 440 - Mammalian Physiology
  - BIOL 442 - Principles of Plant Physiology with Laboratory
  - BIOL 447 - Advanced Comparative Animal Physiology
  - BIOL 451 - Comparative Vertebrate Anatomy

List C: Focus on Biological Diversity
  - BIOL 301 - Fossil Record
  - BIOL 305 - Introduction to Conservation Biology
  - BIOL 320 - Invertebrate Zoology
  - BIOL 341 - Principles of Ecology
  - BIOL 412 - Molecular Evolution
  - BIOL 418 - Microbial Ecology
  - BIOL 427 - Bryology
  - BIOL 432 - Herpetology
  - BIOL 434 - Mammalogy
  - BIOL 438 - Soil Plant Water Relations in Arid Environments
  - BIOL 441 - Field Ecology
  - BIOL 444 - Principles of Plant Ecology
  - BIOL 486 - Animal Behavior
  - BIOL 487 - Principles of Systematics
  - BIOL 490 - Biogeography

Electives - Credits: 6-9

Notes:

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above)

Total Credits: 120

Major Requirements - BS in Biology - Ecology and Evolutionary Biology Concentration - Subtotal: 78 Credits

(see note 1-6 below)

**Biology Core Requirements - Credits: 20**
- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics
- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

**Other Required Courses - Credits: 34**
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences or
- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

**Recommended Courses**
- MATH 182 - Calculus II
- CHEM 475 - Biochemistry II

**Biology - Ecology and Evolutionary Biology Requirements - Credits: 24**

- BIOL 341 - Principles of Ecology

A minimum of three courses from list below:
- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
- BIOL 490 - Biogeography

Remaining credits (to total of 24) selected from course focus lists A - C.
Overall minimum of one course from each list A - C

**List A: Focus on Cell Structure and Function**
- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
• BIOL 460 - Microbial Physiology
• BIOL 464 - Bacterial Pathogenesis
• BIOL 466 - Developmental Biology
• BIOL 470 - Topics in Applied Microbiology
• BIOL 478 - Genetics and Cell Biology of Cancer
• BIOL 473 - Advanced Topics in Cell and Molecular Biology
• BIOL 485 - Microbial Genetics

List B: Focus on Organismal Structure and Function

• BIOL 348 - Introduction to Human Anatomy
• BIOL 414 - Endocrinology
• BIOL 417 - Biochemical Adaptations
• BIOL 426 - Plant Anatomy
• BIOL 440 - Mammalian Physiology
• BIOL 442 - Principles of Mammalian Physiology with Laboratory
• BIOL 447 - Advanced Comparative Animal Physiology
• BIOL 451 - Comparative Vertebrate Anatomy
• BIOL 453 - Immunology
• BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
• BIOL 468 - Histology

List C: Focus on Biological Diversity

• BIOL 301 - Fossil Record
• BIOL 305 - Introduction to Conservation Biology
• BIOL 320 - Invertebrate Zoology
• BIOL 341 - Principles of Ecology
• BIOL 412 - Molecular Evolution
• BIOL 418 - Microbial Ecology
• BIOL 427 - Bryology
• BIOL 432 - Herpetology
• BIOL 434 - Mammalogy
• BIOL 438 - Soil Plant Water Relations in Arid Environments
• BIOL 441 - Field Ecology
• BIOL 444 - Principles of Plant Ecology
• BIOL 486 - Animal Behavior
• BIOL 487 - Principles of Systematics
• BIOL 490 - Biogeography

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above).

Total Credits: 120

Major Requirements - BS in Biology - Integrative Physiology Concentration - Subtotal: 78 Credits

(see notes 1-6 below)

**Biology Core Requirements - Credits: 20**

• BIOL 196 - Principles of Modern Biology I
• BIOL 197 - Principles of Modern Biology II
• BIOL 300 - Principles of Genetics or
• BIOL 304 - Molecular Genetics
• BIOL 351 - Microbiology
• BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the
AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses - Credits: 34
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences
- or
- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Other Recommended Courses
- CHEM 475 - Biochemistry II
- MATH 182 - Calculus II

Integrative Physiology Requirements Credits: 24
- BIOL 445 - Cell Physiology

Choose two courses from the following:
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology

Remaining credits (to total of 24) selected from course focus lists A-C.
Overall minimum of one course from each list A-C

List A: Focus on Cell Structure and Function
- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 478 - Genetics and Cell Biology of Cancer
- BIOL 485 - Microbial Genetics

List B: Focus on Organismal Structure and Function
- BIOL 348 - Introduction to Human Anatomy
- BIOL 414 - Endocrinology
- BIOL 417 - Biochemical Adaptations
- BIOL 426 - Plant Anatomy
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 451 - Comparative Vertebrate Anatomy
- BIOL 453 - Immunology
- BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
- BIOL 468 - Histology

List C: Focus on Biological Diversity
- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
• BIOL 490 - Biogeography

Electives - Credits: 6-9

Notes:

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above).

Total Credits: 120

Major Requirements - BS in Biology - Microbiology Concentration - Subtotal: 78 Credits

(see notes 1-6 below)

• BIOL 196 - Principles of Modern Biology I
• BIOL 197 - Principles of Modern Biology II
• BIOL 300 - Principles of Genetics
or
• BIOL 304 - Molecular Genetics
• BIOL 351 - Microbiology
• BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses - Credits: 34

• CHEM 121A - General Chemistry I
• CHEM 121L - General Chemistry Laboratory I
• CHEM 122A - General Chemistry II
• CHEM 122L - General Chemistry Laboratory II
• CHEM 241 - Organic Chemistry I
• CHEM 241L - Organic Chemistry for Life Sciences Lab I
• CHEM 242 - Organic Chemistry II
• CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
• CHEM 474 - Biochemistry I
• MATH 181 - Calculus I
• MATH 182 - Calculus II
• STAT 391 - Applied Statistics for Biological Sciences
or
• STAT 491 - Statistics for Scientists I
• PHYS 151 - General Physics I
• PHYS 152 - General Physics II

Other Recommended Courses

• CHEM 475 - Biochemistry II
• MATH 182 - Calculus II

Microbiology Concentration - Credits: 24

A minimum of three courses from list below:

• BIOL 405 - Molecular Biology
• BIOL 409 - Virology
• BIOL 418 - Microbial Ecology
• BIOL 453 - Immunology
• BIOL 460 - Microbial Physiology
• BIOL 464 - Bacterial Pathogenesis
- BIOL 470 - Topics in Applied Microbiology
- BIOL 485 - Microbial Genetics

Remaining credits (to total of 24) selected from course focus lists A - C.
Overall minimum of one course from each list A - C

List A: Focus on Cell Structure and Function
- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 478 - Genetics and Cell Biology of Cancer
- BIOL 485 - Microbial Genetics

List B: Focus on Organismal Structure and Function
- BIOL 348 - Introduction to Human Anatomy
- BIOL 414 - Endocrinology
- BIOL 417 - Biochemical Adaptations
- BIOL 426 - Plant Anatomy
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 453 - Immunology
- BIOL 451 - Comparative Vertebrate Anatomy
- BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
- BIOL 468 - Histology

List C: Focus on Biological Diversity
- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics

Electives - Credits: 6-9

Notes:
1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above).

Total Credits: 120

Major Requirement - BS in Pre-Professional Concentration - Subtotal: 76 Credits

(see notes 1-6 below)

**Biology Core Requirements - Credits: 20**
- BIOL 196 - Principles of Modern Biology I
• BIOL 197 - Principles of Modern Biology II
• BIOL 300 - Principles of Genetics
or
• BIOL 304 - Molecular Genetics
• BIOL 351 - Microbiology
• BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses - Credits: 36
• CHEM 121A - General Chemistry I
• CHEM 121L - General Chemistry Laboratory I
• CHEM 122A - General Chemistry II
• CHEM 122L - General Chemistry Laboratory II
• CHEM 241 - Organic Chemistry I
• CHEM 241L - Organic Chemistry for Life Sciences Lab I
• CHEM 242 - Organic Chemistry II
• CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
• CHEM 474 - Biochemistry I
• CHEM 475 - Biochemistry II
• MATH 181 - Calculus I
• STAT 391 - Applied Statistics for Biological Sciences
or
• STAT 491 - Statistics for Scientists I
• PHYS 151 - General Physics I
• PHYS 152 - General Physics II

Recommended Course
• MATH 182 - Calculus II

Pre-Professional Requirements - Credits: 20

A minimum of six courses from focus course lists A, B, and C (total of 20 credits) selected from course focus lists A - C.

Overall minimum of one course from each list A - C

List A: Focus on Cell Structure and Function
• BIOL 405 - Molecular Biology
• BIOL 409 - Virology
• BIOL 425 - Genomics
• BIOL 445 - Cell Physiology
• BIOL 460 - Microbial Physiology
• BIOL 464 - Bacterial Pathogenesis
• BIOL 466 - Developmental Biology
• BIOL 470 - Topics in Applied Microbiology
• BIOL 473 - Advanced Topics in Cell and Molecular Biology
• BIOL 478 - Genetics and Cell Biology of Cancer

List B: Focus on Organismal Structure and Function
• BIOL 348 - Introduction to Human Anatomy
• BIOL 414 - Endocrinology
• BIOL 417 - Biochemical Adaptations
• BIOL 426 - Plant Anatomy
• BIOL 453 - Immunology
• BIOL 440 - Mammalian Physiology
• BIOL 442 - Principles of Plant Physiology with Laboratory
• BIOL 447 - Advanced Comparative Animal Physiology
• BIOL 451 - Comparative Vertebrate Anatomy
• BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
• BIOL 468 - Histology

List C: Focus on Biological Diversity
• BIOL 301 - Fossil Record
• BIOL 305 - Introduction to Conservation Biology
• BIOL 320 - Invertebrate Zoology
• BIOL 341 - Principles of Ecology
• BIOL 412 - Molecular Evolution
• BIOL 418 - Microbial Ecology
• BIOL 427 - Bryology
• BIOL 432 - Herpetology
• BIOL 434 - Mammalogy
Electives - Credits: 8-11

Total Credits: 120

Notes:

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
5. At least 40 credits must be earned at the upper-division level (300 and above).

Biology Minor

Courses Include - Total Credits: 24

The Biological Sciences Minor is appropriate for all students with interests in the life sciences and especially for those who seek careers that may be enhanced by a background in biology. These include, but are not limited to, biochemistry, chemistry, geology, psychology, anthropology, and sociology. To minor in Biological Sciences, students must complete the biological sciences core;

BIOL 189 - Fundamentals of Life Science
BIOL 196 - Principles of Modern Biology I
BIOL 197 - Principles of Modern Biology II
and 12 upper-division credits. A genetics course, either BIOL 300 - Principles of Genetics or BIOL 304 - Molecular Genetics and BIOL 415 - Evolution are recommended. No more than three credits of independent study (BIOL 492, 493, 494, 496,) may be applied toward the minor. A Biological Sciences Minor will be awarded only if the overall Biology GPA is 2.00 or above. At least nine credits must be earned at UNLV.

Biology

BIOL 100 - General Biology for Non-Majors
Introduction to biology of the human species. For non-majors; emphasizing those aspects of structure, function, ecology, and evolution which provide a biological perspective for problems facing modern society.
Credits: 4
Prerequisites: The maximum number of attempts for BIOL 100 is three, including earned grades, withdrawals and audits.
Notes: Satisfies the General Education Core requirement for a laboratory science course.

BIOL 103 - Biology Laboratory
Laboratory portion of either BIOL 100 or BIOL 189, for students who have had course work without a laboratory at a previous institution.
Credits: 1
Prerequisites: The maximum number of attempts for BIOL 103 is three, including earned grades, withdrawals and audits. Credits for the lecture portion of either majors or non-majors entry-level course and consent of instructor.
BIOL 104 - Introduction to Human Ecology
Focusing on natural processes that determine where organisms occur and how they change through time, this course for non-science majors will provide introductions to ecology, biogeography, and evolution. The principles learned will be used to understand interrelationships between humans and other organisms and address global issues such as emergent diseases, invasive species, changing landscapes, and wildlife conservation.
Credits: 3
Prerequisites: The maximum number of attempts for BIOL 104 is three, including earned grades, withdrawals and audits.

BIOL 111 - Water, People and the Environment
An introduction to the study of water resources on a local, regional and global scale for non-science students. Special emphasis will be given to how people and societies develop water resources and the environmental consequences of that development. The course will include lectures, readings, videos, class discussions, and local field trips.
Credits: 3
Prerequisites: The maximum number of attempts for BIOL 111 is three, including earned grades, withdrawals and audits.

BIOL 113 - Life in the Ocean
Introduction to the environments and inhabitants of the sea.
Credits: 3
Prerequisites: The maximum number of attempts for BIOL 113 is three, including earned grades, withdrawals and audits.

BIOL 120 - Plants and People
Introduction for non-biology majors to the social, cultural, and economic role of useful and harmful plants and plant products in modern society. Consideration given to the origin, history, and human value of selected plants, especially those used for food, medicine, and industrial raw materials, or religious purposes.
Credits: 3
Prerequisites: The maximum number of attempts for BIOL 120 is three, including earned grades, withdrawals and audits.
Notes: Used for study abroad only.

BIOL 121 - Human Nutrition
(Same as NUTR 121). Description of the nature and role of carbohydrates, lipids, proteins, water, vitamins, and minerals in the human body. Energy relations and various controversies in nutrition examined, as well as the relationships among nutrition, health, and disease.
Credits: 3
Prerequisites: The maximum number of attempts for BIOL 121 is three, including earned grades, withdrawals and audits.

BIOL 122 - Desert Plants
Study of typical desert plant communities, along with the identification of more common species. Additional topics include morphological and physiological adaptations to aridity; and the nature, origin, and occurrence of arid environments.
Credits: 3
Prerequisites: The maximum number of attempts for BIOL 122 is three, including earned grades, withdrawals and audits.
Notes: Satisfies the General Education Core requirement for a laboratory science course.

BIOL 123 - Human Nutrition Laboratory
Laboratory exercises are employed to examine the nature and role of nutrients in the human body and energy relationships. Contemporary controversies in nutrition examined in relation to nutrition, health and disease.
Credits: 1
Corequisites: BIOL 121.
Prerequisites: ENG 101, The maximum number of attempts for BIOL 123 is three, including earned grades, withdrawals and audits.
**BIOL 148 - Natural History of the Desert Southwest**
Introduction for biology non-majors to the desert environments of the American Southwest. Includes the study of climate, geology, plants, animals, and man in desert regions. Includes field trips.
Credits: 4
Prerequisites: The maximum number of attempts for BIOL 148 is three, including earned grades, withdrawals and audits.
Notes: Satisfies the General Education Core requirement for a laboratory science course.

**BIOL 189 - Fundamentals of Life Science**
Survey of contemporary biology; includes structure, function, interactions and evolutionary origins of living systems. For Biological Sciences majors and others who require biology as part of their professional career preparation.
Credits: 4
Prerequisites: The maximum number of attempts for BIOL 189 is three, including earned grades, withdrawals and audits.
Notes: Satisfies General Education Core requirements for laboratory sciences. Aligned with State of Nevada life science content standards for K-8 certification.

**BIOL 196 - Principles of Modern Biology I**
Structural and chemical nature of cells, complex organisms and cellular environments. Transmission and molecular genetics, cell communication, reproduction and energetics. For Biological Sciences majors and others pursuing advanced study in biology.
Credits: 4
Prerequisites: The maximum number of attempts for BIOL 196 is three, including earned grades, withdrawals and audits.
Notes: Satisfies the General Education Core requirement for a laboratory science course.

**BIOL 197 - Principles of Modern Biology II**
Whole-organism biology in an evolutionary context; biodiversity, structure, function and reproduction of prokaryotic and eukaryotic organisms. Evolutionary and ecological pattern and process. For Biological Sciences majors and others pursuing advanced study in biology.
Credits: 4
Prerequisites: The maximum number of attempts for BIOL 197 is three, including earned grades, withdrawals and audits.
Notes: Satisfies the General Education Core requirement for a laboratory science course.

**BIOL 208 - Introduction to Human Genetics**
For non-majors. Aspects of human inheritance and evolution considered.
Credits: 3
Prerequisites: BIOL 100 or BIOL 189.

**BIOL 220 - Introduction to Ecological Principles**
Introduction for environmental science students to the major ecological principles at work in the environment. Focuses not only on these principles but also on understanding the processes that underlie them.
Credits: 3
Prerequisites: BIOL 197 for BIOL majors. The maximum number of attempts for BIOL 220 is three, including earned grades, withdrawals and audits.

**BIOL 223 - Human Anatomy and Physiology I**
Review of the basic organization of human cells and tissues and the structure and function of the skeletal, muscular, nervous, and sensory systems.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 189 or BIOL 196 or BIOL 197. The maximum number of attempts for BIOL/KIN 223 is three, including earned grades, withdrawals and audits.
Notes: Same as KIN 223

**BIOL 224 - Human Anatomy and Physiology II**
Structure and function of the human digestive, circulatory, urogenital, and endocrine systems.
Credits: 4
Prerequisites: Grade of C or better in BIOL 189 or BIOL 196 or BIOL 197 and BIOL 223. The maximum number of attempts for BIOL 224 is three, including earned grades, withdrawals and audits.

Notes: Same as KIN 224

**BIOL 251 - General Microbiology**
Survey of general microbiology including microbiological prokaryotic cell structure and function with an emphasis on microorganisms that associate with humans.

Credits: 4
Prerequisites: Minimum grade of C in the following: BIOL 189 or BIOL 196 or BIOL 197; CHEM 108 or [CHEM 121A and CHEM 121L]. The maximum number of attempts for BIOL 251 is three, including earned grades, withdrawals and audits. Permission to enroll in BIOL 251 is required for students seeking to repeat the course.

Notes: Credit not allowed in both BIOL 251 and BIOL 351.

**BIOL 300 - Principles of Genetics**
Study of the transmission of traits from one generation to the next, the structure and function of genes, and the variation of genes between and within populations.

Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 300 is three, including earned grades, withdrawals and audits.

**BIOL 301 - Fossil Record**
History and evolution of life as recorded in the fossil record.

Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181.

**BIOL 302 - Evolutionary Survey of Vascular Plants**
Evolutionary survey of vascular plants: their classification, appearance in geologic time, comparative life cycles and morphological characteristics.

Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 302 is three, including earned grades, withdrawals and audits.

**BIOL 304 - Molecular Genetics**
Comprehensive survey course designed to cover the basic principles that deal with the physical and chemical nature of genes. Specific topics include the structure/function of genes, genome organization, DNA replication and recombination, protein synthesis, regulation of gene expression, chromatin structure, epigenetic effects, and genetic engineering.

Credits: 4
Prerequisites: Minimum grade of C or better in the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100; and MATH 127 or 128 or 181; Max number of attempts for BIOL 304 is three, including earned grades, withdrawals and audits.

**BIOL 305 - Introduction to Conservation Biology**
Fundamental issues in conservation biology including biodiversity, invasive and endangered species, reserve design, and environmental legislation to provide a scientific examination of the biological underpinnings of conservation issues.

Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 305 is three, including earned grades, withdrawals and audits.
**BIOL 320 - Invertebrate Zoology**
Discussion of the taxonomy, morphology, and physiology of the phyla and classes of invertebrate animals, including some ecological and phylogenetic relationships.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181.
The maximum number of attempts for BIOL 320 is three, including earned grades, withdrawals and audits.

**BIOL 341 - Principles of Ecology**
Fundamentals of ecology and levels of population, community, and ecosystem.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181.
The maximum number of attempts for BIOL 341 is three, including earned grades, withdrawals and audits.

**BIOL 345 - Urban Horticulture**
New field of urban horticulture, which deals with how plants respond to urban stresses. Includes readings on and discussion of the following topics: plant sciences and development, horticultural practices, and stress physiology.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181.
The maximum number of attempts for BIOL 345 is three, including earned grades, withdrawals and audits.

**BIOL 347 - Human Anatomy Lab**
Anatomical nomenclature with a detailed study of gross and histological structures of the human body through hands-on group activities involving anatomical models, medical imaging, and real and digital dissections.
Credits: 1
Corequisites: BIOL 348 - Introduction to Human Anatomy is the lecture to this optional lab. Students will need to either be concurrently enrolled in or have previously successfully completed BIOL 348 with a grade of C or better to take the lab.
Prerequisites: C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L; ENG 102 or ENG 114 or HON 100; and MATH 127 or MATH 128 or MATH 181. Maximum attempts for BIOL 347 is 3, including earned grades, withdrawals and audits.

**BIOL 349 - Human Physiology Foundations**
Primarily examines organ system physiology. The course begins with a unit covering chemistry, cell structure, genetic control, enzymes and bioenergetics, cell respiration and metabolism, extracellular interactions, and membrane potential. Later units cover functions of the following systems in detail: nervous, endocrine, muscular, cardiovascular, lymphatic, immune, respiratory, urinary, digestive, and reproductive.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, or CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100; and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 348 is three, including earned grades, withdrawals and audits.
121L, CHEM 122A, CHEM 122L; ENG 102 or ENG 114 or HON 100; MATH 127 or MATH 128 or MATH 181.

Notes: Fulfills gened requirement: Life and Physical Sciences and Analytical Thinking.

**BIOL 351 - Microbiology**
Microbial systems provides in-depth coverage of prokaryotic cell structure, function, genetics, diversity, ecology, and pathogenesis, with an emphasis on microbial metabolism, bacterial genetics and molecular mechanisms.

Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 351 is three, including earned grades, withdrawals and audits.

Notes: Credit not allowed in both BIOL 251 and BIOL 351.

**BIOL 360 - Introduction to Biomathematics I**
Introduction to the interdisciplinary field of biomathematics; mathematical models of biological systems; applied numerical methods and computer software for solving mathematical models.

Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 360 is three, including earned grades, withdrawals and audits.

Notes: Same as MATH 360.

**BIOL 361 - Introduction to Biomathematics II**
A continuation to the study of biomathematics; part two will consider more advanced mathematical models of biological processes associated with advection, diffusion and pattern formation; computational methods for solving partial differential equations.

Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 361 is three, including earned grades, withdrawals and audits.

Notes: Same as MATH 361.

**BIOL 402 - Great Biological Discoveries**
Students will read original research articles and critically examine ~25 of the most important biological discoveries of all time. Students will learn the basic skills of a structured approach to critically examine data, develop hypotheses, challenge the interpretation of results, identify valid conclusions, and discuss the significance of conclusions and research. The course will help students understand the origins of different biological fields and develop a "big picture" view of science.

Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and a 300- or 400-level BIOL class. The maximum number of attempts for BIOL 402 is three, including earned grades, withdrawals and audits.

**BIOL 403 - Restoration Ecology**
The science and practice of repairing ecosystems that have been damaged or destroyed; including determining reference conditions, restoration practices across ecosystems, and challenges to restoration during an era of global change in climate, disturbance, and biological invasions.

Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts
for BIOL 403 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 603. Credit at the 600-level requires additional work.

BIOL 405 - Molecular Biology
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.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and BIOL 300 or CHEM 474. The maximum number of attempts for BIOL 405 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 603. Credit at the 600-level requires additional work.

BIOL 409 - 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.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and BIOL 300 or CHEM 474. The maximum number of attempts for BIOL 409 is three, including earned grades, withdrawals and audits.

BIOL 412 - Molecular Evolution
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. CHEM 474 recommended. The maximum number of attempts for BIOL 412 is three, including earned grades, withdrawals and audits.

BIOL 413 - Introduction to Scientific Writing
This course introduces students to 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.
Credits: 2
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121 or CHEM 121A, CHEM 121L, CHEM 122 or CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and One upper division course from any of the following; BIOL, CHEM, GEOL, PHYS, MATH, and permission of instructor. The maximum number of attempts for BIOL 413 is three, including earned grades, withdrawals and audits.

BIOL 414 - Endocrinology
Survey of the structure and function of vertebrate endocrine systems, with emphasis on the biochemical basis of hormone action and the role of cell communication in endocrine physiology.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. CHEM 474 recommended. The maximum number of attempts for BIOL 414 is three, including earned grades, withdrawals and audits.
audits.

Notes: Same as CHEM 478. This course is crosslisted with BIOL 648. Credit at the 600-level requires additional work.

**BIOL 415 - Evolution**

Principles of evolutionary biology with a focus on the processes of evolution and patterns generated in the diversification of all life. In discussion sections, students solve evolutionary problems, test evolutionary hypotheses, and critique primary research literature.

Credits: 4

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A; ENG 102 or ENG 114 or HON 100; MATH 127 or 128 or 181; and BIOL 300 or BIOL 304. The maximum number of attempts for BIOL 415 is three, including earned grades, withdrawals and audits.

**BIOL 416 - Bioinformatics**

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.

Credits: 3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and at least one 300-level or 400-level BIOL class; or by consent of the instructor. The maximum number of attempts for BIOL 416 is three, including earned grades, withdrawals and audits.

**BIOL 417 - Biochemical Adaptations**

Exploration of biochemical and molecular characteristics that appear to be adaptive for organisms in their respective environments.

Credits: 3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 445. The maximum number of attempts for BIOL 417 is three, including earned grades, withdrawals and audits.

**BIOL 418 - 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.

Credits: 3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and BIOL 351. The maximum number of attempts for BIOL 418 is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with BIOL 618. Credit at the 600-level requires additional work.

**BIOL 422 - 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.

Credits: 4

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 422 is three, including earned grades, withdrawals and audits.
BIOL 425 - 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 bioinformatics technologies in medical researches.
Credits: 3
Prerequisites: Minimum grade of C in the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100; MATH 127 or 128 or 181; BIOL 300 or BIOL 304; and BIOL 405. The maximum number of attempts for BIOL 425 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 625. Credit at the 600-level requires additional work.

BIOL 426 - Plant Anatomy
Study of the basic structure of plant organs and tissues, particularly with regard to relationships between structure and function.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 426 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 626. Credit at the 600-level requires additional work.

BIOL 427 - Bryology
Biology of mosses, including taxonomy, morphology, reproduction, speciation, desiccation tolerance, resource transfer, spore biology, and biology of the ecologically important soil crusts. Arid environments highlighted. Lab focuses on local identification and includes field trips.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 427 is three, including earned grades, withdrawals and audits.

BIOL 428S - Biometry
Analysis of large data sets, statistical hypothesis testing, and experimental design. Statistical techniques covered include but are not limited to t-test, chi-squared test, ANOVA, regression, likelihood, and others. Examples drawn from molecular biology, ecology, systems biology, and population genetics. Introduction to programming in the R language.
Credits: 3
Prerequisites: Minimum grade of C in STAT 391 or STAT 491.
Credit at the graduate-level requires additional work; this course is crosslisted with BIOL 628

BIOL 431 - Ichthyology
Study of biology of fishes, including morphology, physiology, ecology, and evolution. Emphasis on local fish, field work with state and federal agency biologists.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 431 is three, including earned grades, withdrawals and audits.

BIOL 432 - 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.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 432 is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with BIOL 632. Credit at the 600-level requires additional work.

BIOL 433 - Ornithology
Principles of avian biology and evolution.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 433 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 633. Credit at the 600-level requires additional work.

BIOL 434 - Mammalogy
Study of mammalian biology, evolution, and ecology, with attention to issues in mammal conservation biology.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 434 is three, including earned grades, withdrawals and audits.

BIOL 435 - Forest Ecology
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.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 435 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 635. Course work at the 600-level requires additional work.

BIOL 437 - Entomology
Introduction to the principles of insect classification and biology.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 437 is three, including earned grades, withdrawals and audits.

BIOL 438 - Soil Plant Water Relations in Arid Environments
The class will cover soil plant water relationships relevant to arid environments under limited water resources. Topics that will be discussed in detail include: the hydrologic cycle, water properties, soil physical and chemical properties, environmental demand, plant stress associated with drought and salinity, water quality and irrigation management as it relates to plant growth and productivity.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 438 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 638. Credit at the 600-level requires additional work.
BIOL 440 - Mammalian Physiology
Principles of mammalian physiology, normal functioning of mammalian body as a whole, and interrelationships of organs and organ systems. Emphasis on physiological processes and their interrelationships.
Credits: 3
Corequisites: CHEM 242 and CHEM 242L.
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and CHEM 241 and CHEM 241L. The maximum number of attempts for BIOL 440 is three, including earned grades, withdrawals and audits.

BIOL 441 - Field Ecology
Introduction to ecological research. Weekly field projects emphasize population biology, interactions among species, and ecosystem processes.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 220 or BIOL 341 or consent of instructor. The maximum number of attempts for BIOL 441 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 641.
Credit at the 600-level requires additional work.

BIOL 442 - Principles of Plant Physiology with Laboratory
Introduction to the basic physiological processes in plants: metabolism, nutrition, growth, and development.
Credits: 4
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; CHEM 241 and CHEM 241L. The maximum number of attempts for BIOL 442 is three, including earned grades, withdrawals and audits.

BIOL 443 - Molecular Biotechnology
In recent years, the development of methodologies in experimental biology has proceeded at an unprecedented rate, particularly in the area of DNA technology. The material covered includes the latest techniques, explains their scientific basis, describes their applications in industry, and considers their potential for use or misuse in the future.
Credits: 3
Prerequisites: Minimum grade of C in BIOL 351.
The maximum number of attempts for BIOL 443 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 643.
Credit at the graduate-level requires additional work.

BIOL 444 - Principles of Plant Ecology
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.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 341 or consent of instructor. The maximum number of attempts for BIOL 444 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 644.
Credit at the 600-level requires additional work.

BIOL 445 - Cell Physiology
Cell physiology provides an understanding of the basic processes of eukaryotic cells and their relationship to cellular ultrastructure.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181 and junior standing. The maximum number of attempts for BIOL 445 is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with BIOL 645. Credit at the 600-level requires additional work.

**BIOL 447 - Advanced Comparative Animal Physiology**
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.

Credits: 3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, CHEM 241 and CHEM 241L. The maximum number of attempts for BIOL 447 is three, including earned grades, withdrawals and audits.

**BIOL 448 - Mammalian Physiology Laboratory**
Practical experience with physiological techniques. Emphasis on the integration of tissue, organ, and organ system physiological functions.

Credits: 1 or 2

Corequisites: BIOL 440 or BIOL 447.

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 447 is three, including earned grades, withdrawals and audits.

**BIOL 449 - Comparative Nutrition**
Explore the diversity and complexity of systems that have evolved to adequately support energy requiring processes for life. Topics range from the evolution of digestive systems in a wide array of organisms (single celled, plants and animals) to the development of, for example, simple, complex, and ruminant digestive systems. Methods of acquiring, processing and utilizing nutrients for growth, maintenance and metabolism, including performance are also discussed.

Credits: 3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 449 is three, including earned grades, withdrawals and audits.

**BIOL 451 - Comparative Vertebrate Anatomy**
The companion laboratory courses of BIOL 455. 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.

Credits: 2

Corequisites: BIOL 455.

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 451 is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with BIOL 651. Credit at the 600-level requires additional work.

**BIOL 452 - Comparative Behavioral Endocrinology**
Explores the relationships between hormones, brain and behavior in invertebrate and vertebrate animals. Discussion of the effects of hormones on development and behavior, how behavior and the nervous system influence endocrine physiology and how hormones influence the timing of physiological and behavioral events.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 414 or BIOL 486. The maximum number of attempts for BIOL 452 is three, including earned grades, withdrawals and audits.

**BIOL 453 - Immunology**
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.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 453 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 653. Credit at the 600-level requires additional work.

**BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics**
Examines structure-function relationships in the context of vertebrate evolution. Tissues and structures of the integumentary, skeletal, and muscular system are emphasized. Biomechanics of materials, structures, and movements are related to adaptations of vertebrates to life in their physical worlds.
Credits: 3
Corequisites: BIOL 451.
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 455 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 655. Credit at the 600-level requires additional work.

**BIOL 458 - Stem Cells and Regeneration Biology**
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.
Credits: 3
Prerequisites: A grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, MATH 127 or MATH 128 or MATH 181; BIOL 300 or BIOL 304; and BIOL 405 or BIOL 445 or CHEM 474. The maximum attempts for BIOL 458 is three, including earned grades, withdrawals and audits.

**BIOL 460 - Microbial Physiology**
Exploration of the major aspects of microbial physiology, including structure and growth of bacteria, generation of ATP and intermediary metabolism, synthesis of macromolecules and cellular components, and coordination of intracellular activities.
Credits: 3
Prerequisites: Minimum grade of C in the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A; ENG 102 or ENG 114 or HON 100; MATH 127 or MATH 128 or MATH 181; BIOL 351; CHEM 241; and CHEM 241L or CHEM 347. The maximum number of attempts for BIOL 460 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 660. Credit at the 600-level requires additional work.

**BIOL 463 - Genetics of Human Disease**
Investigate the mechanisms by which gene and genome variations change cell RNA & protein production, biochemistry, and function, resulting in
human disease and disorders. Through clinical case studies, learn from the perspective of a health care professional applying genetic and genomic principles to the practice of medicine.

**Credits:** 3  
**Prerequisites:** Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L; ENG 102 or ENG 114 or HON 100; MATH 127 or 128 or 181; and BIOL 300 or 304.

**BIOL 464 - Bacterial Pathogenesis**  
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.

**Credits:** 3  
**Prerequisites:** Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; and BIOL 351. The maximum number of attempts for BIOL 464 is three, including earned grades, withdrawals and audits.

**Notes:** This course is crosslisted with BIOL 664. Credit at the 600-level requires additional work.

**BIOL 465 - Vertebrate Embryology**  
Development of vertebrates, with emphasis on amphibians, birds, and mammals. Considerations of gametogenesis, fertilization, cleavage, early morphogenesis, and organogenesis included.

**Credits:** 4  
**Prerequisites:** Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 465 is three, including earned grades, withdrawals and audits.

**Notes:** This course is crosslisted with BIOL 665. Credit at the 600-level requires additional work.

**BIOL 466 - Developmental Biology**  
Development biology from the perspective of evolutionary biology and embryology and genetics. Elucidation of general principles about the genetic basis of morphologic changes and regulatory mechanisms, the genetics toolkit for development of model species, and the regulation and function of these genes in the complex hierarchies that govern animal development.

**Credits:** 3  
**Prerequisites:** Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 or BIOL 304 and BIOL 405 or CHEM 474. The maximum number of attempts for BIOL 466 is three, including earned grades, withdrawals and audits.

**Notes:** This course is crosslisted with BIOL 666. Credit at the 600-level requires additional work.

**BIOL 468 - Histology**  
Microscopic structure and function of vertebrate tissues with emphasis on mammals.

**Credits:** 4  
**Prerequisites:** Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 468 is three, including earned grades, withdrawals and audits.

**Notes:** This course is crosslisted with BIOL 668. Credit at the 600-level requires additional work.

**BIOL 469 - RNA Biology**  
Covers multiple types and biological roles of RNA. Topics include role of RNAs in the regulation of important cellular and physiological processes, how alteration of RNA functions could lead to human genetic diseases and RNA-based therapies. Course is crosslisted with BIOL 669. Credit at the 600-level requires additional work.

**Credits:** 3  
**Prerequisites:** BIOL 300 or BIOL 304


**BIOL 470 - Topics in Applied Microbiology**
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.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 and BIOL 351. The maximum number of attempts for BIOL 470 is three, including earned grades, withdrawals and audits.
Notes: Topics published in the class schedule. May be repeated to a maximum of six credits.

**BIOL 471 - Aquatic Ecology**
Principles of aquatic ecology including physical, chemical and biotic attributes - and their interactions - relating to both freshwater and marine systems.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 341 and CHEM 122A and consent of instructor. The maximum number of attempts for BIOL 471 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 671. Credit at the 600-level requires additional work.

**BIOL 473 - Advanced Topics in Cell and Molecular Biology**
Discussion of current literature on a specific topic in cell and molecular biology.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 and consent of instructor. The maximum number of attempts for BIOL 473 is three, including earned grades, withdrawals and audits.
Notes: Topics published in the class schedule. May be repeated to a maximum of six credits.

**BIOL 475 - Neurobiology**
Introduction to the neurosciences, emphasizing cellular, molecular, and physiological aspects. Establishes a foundation of cellular neurobiology and moves on to selected topics in the organization, function, and development of neural systems.
Credits: 3
Prerequisites: Minimum grade of C in the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L; ENG 102 or ENG 114 or HON 100; MATH 127 or MATH 128 or MATH 181; BIOL 300 or BIOL 304. The maximum number of attempts for BIOL 475 is three, including earned grades, withdrawals and audits.

**BIOL 478 - Genetics and Cell Biology of Cancer**
This course examines the molecular mechanisms underlying carcinogenesis, tumorigenesis, and metastasis with a heavy emphasis placed on advanced genetic concepts that underlie basic cell biology. The class utilizes a multi-disciplinary approach to learning that includes a mixture of formal lectures, student presentations, and class discussions.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 or BIOL 304 and BIOL 445. The maximum number of attempts for BIOL 478 is three, including earned grades, withdrawals and audits.
**BIOL 480 - Introduction to Biological Modeling**
Introduction to the modeling of biological systems and processes through the use of computers.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181.
The maximum number of attempts for BIOL 480 is three, including earned grades, withdrawals and audits.
Notes: This course is crosslisted with BIOL 680. Credit at the 600-level requires additional work.

**BIOL 486 - Animal Behavior**
Evolutionary analysis of vertebrate and invertebrate behavior.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 486 is three, including earned grades, withdrawals and audits.

**BIOL 481 - Advanced Cell Biology**
Advanced topics in cell and molecular biology, including membrane structure and function, cytoskeleton, signal transduction, and current research methods.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 101, ENG 102, and MATH 127 or 128 or 181; CHEM 474. The maximum number of attempts for BIOL 481 is three, including earned grades, withdrawals and audits.

**BIOL 485 - Microbial Genetics**
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.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 and BIOL 351. The maximum number of attempts for BIOL 485 is three, including earned grades, withdrawals and audits.
Notes: Emphasis on molecular approaches to systematics. This course is crosslisted with BIOL 685. Credit at the 600-level requires additional work.

**BIOL 487 - Principles of Systematics**
Principles and applications of methods used to reconstruct history and biotic diversity among genes, species, and higher taxa. Considers several approaches to tree construction and significance of phylogenetic history within the context of evolution, biogeography, and conservation biology.
Credits: 3
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 487 is three, including earned grades, withdrawals and audits.
Notes: Emphasis on molecular approaches to systematics. This course is crosslisted with BIOL 687. Credit at the 600-level requires additional work.
**BIOL 489 - Developmental Genetics**

Topics in molecular genetics of developmental processes explored through current literature.

Credits: 3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300, and BIOL 405 or CHEM 474. The maximum number of attempts for BIOL 489 is three, including earned grades, withdrawals and audits.

May be repeated to a maximum of six credits.

**BIOL 490 - Biogeography**

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.

Credits: 3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. The maximum number of attempts for BIOL 490 is three, including earned grades, withdrawals and audits.

Notes: This course is crosslisted with BIOL 690. Credit at the 600-level requires additional work.

**BIOL 492 - Undergraduate Research**

Special problems in some field of the biological sciences for investigation and report.

Credits: 1-3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Two years of biological sciences and consent of instructor.

May be repeated to a maximum of eight credits.

**BIOL 493 - Undergraduate Seminar**

Preparation and presentation of seminars on topics of current interest in biology.

Credits: 1

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Two years of biological sciences and consent of instructor.

Notes: Topic changes by semester; see class schedule.

May be repeated to a maximum of three credits.

**BIOL 494 - Biology Colloquium**

Analysis and critique of topics as presented by speakers drawn from the national biological research community.

Credits: 1

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; Two years of biological sciences. The maximum number of attempts for BIOL 494 is three, including earned grades, withdrawals and audits.

Notes: S/F grading only.

May be repeated to a maximum of three credits.

**BIOL 496 - Advanced Topics in Modern Biology**

Advanced study in a specialized area of biology. Topics selected and published in class schedule.

Credits: 1-3

Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181 and consent of instructor. The maximum number of attempts for BIOL 496 is three, including earned grades, withdrawals and audits.

Notes: Maximum of three different topics may be selected for a total of six credits.
BIOL 498 - Scientific Presentations
Seminar for undergraduate students conducting research projects on any biological discipline. Gives students advice and provides them with practical experience on giving oral and written presentations. Discussion of principles of good visual communication and demonstrations of good and poor selections.
Credits: 1-2
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; and consent of instructor. The maximum number of attempts for BIOL 498 is three, including earned grades, withdrawals and audits.

BIOL 499 - Instruction in Biological Sciences
Significant involvement in instruction of courses in biological sciences. May include laboratory preparation, instruction, and grading.
Credits: 1-2
Prerequisites: Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; consent of instructor.
Notes: S/F grading only.
May be repeated to a maximum of two credits.
Chemistry and Biochemistry

Purpose and Focus
The science of chemistry deals with the composition, analysis, structure, and properties of matter and the various transformations matter may undergo. Chemical processes are at the heart of many diverse systems that are of great interest to mankind, including biological functions, the natural and polluted environment, industrial processes, biotechnology, food and agriculture, mining technology, etc. The Bachelor of Arts degree is designed to allow a student sufficient flexibility to obtain expertise in a discipline other than chemistry so that chemical knowledge can be applied to another field. The Bachelor of Science degree is an accredited program that requires more chemistry, math, and physics than the Bachelor of Arts degree and is intended for students wishing to pursue a career in chemistry. The Bachelor of Science degree in Biochemistry is intended to provide a student with the theoretical and technical skills necessary for employment in industry or to pursue a graduate degree in biochemistry or a related field.

Accreditation
Northwest Commission on Colleges and Universities
American Chemical Society (B.S. in Chemistry)

Undergraduate Majors
Biochemistry-Bachelor of Science
Chemistry-Bachelor of Arts
Chemistry-Bachelor of Science

Areas of Concentration
Education
Environmental Chemistry

Early Admit Fast-Track Program with UNLV — School of Dental Medicine
This program expedites the process of earning a doctor of dental medicine degree. Students admitted to the program complete three years of prerequisite course work at UNLV. Following completion of the second year, students take the DAT and apply to UNLV — School of Dental Medicine (UNLV-SDM) through the Associated American Dental School Application Service (AADSAS). Participation in this early-admit program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to UNLV-SDM matriculate following completion of the third year at UNLV. Course work completed at UNLV-SDM during the first year is transferred to UNLV to complete the Bachelor of Arts in Chemistry. The net result is reduction of the time required to earn the baccalaureate and DMD degrees from eight years to seven. To learn more about the specific details of this program, please contact the pre-health advisor.

Early Admit Fast-Track Program with Touro University — College of Osteopathic Medicine
This program expedites the process of earning an osteopathic medical degree. Students admitted to the program complete three years of prerequisite course work at UNLV. Following completion of the second year, students take the MCAT and apply to Touro University — College of Osteopathic Medicine (TU-COM) through the Association of American Colleges of Osteopathic Medicine Application Service (AACOMAS). Participation in this Early Admit Program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to TU-COM matriculate following completion of the third year at UNLV. Course work completed at TU-COM during the first two years is transferred to UNLV to complete the Bachelor of Arts in Chemistry. The net result is reduction of the time required to earn the baccalaureate and medical degrees from eight years to seven. To learn more about the specific details of this program, please contact the pre-health advisor.
Admission to the Major
Minimum GPA: 2.50

Admissions Policies
Students must meet minimum GPA requirements.

Students with a GPA less than 2.50, but at least 2.0, may be admitted on probationary status. Students on probation must meet with their advisor to devise a course of study that, when successfully completed, will remove the student from probationary status; the course of study must be approved by the department chair. The course of study shall consist of at least 15 units that apply toward a degree in the major; ordinarily, the course of study will be required to be completed in one calendar year (i.e., two semesters and the summer term). The advisor may request that completion time be extended by one semester for good cause (e.g., more than 15 units in the course of study, course offering schedules, etc.). Failure to satisfactorily complete the probationary course of study is grounds for suspension from the department.

Transfer Policies
Transfer students should first have their transcripts evaluated by the Office of the Registrar & Admissions, then schedule a meeting with the College of Sciences Advising Center. Based on the transcripts and catalog descriptions, equivalencies to UNLV courses will be determined and a plan for completion of the degree developed. In cases of questions regarding the transferability of a particular course, satisfactory performance (i.e., a grade of C or better) by a student in a higher numbered UNLV chemistry course for which the proposed UNLV transfer course is a prerequisite shall be accepted as proof that the student has mastery of the course content and the student shall be awarded transfer credit.

Department Policies

Academic Policies
Majors may count no more than one grade of D in chemistry courses toward meeting degree requirements. Chemistry courses taken more than eight years prior to the proposed date of graduation are subject to review by the department, and at the discretion of the department, such courses may not be allowed for application to a degree program. Students potentially affected by this policy should meet with the department chair.

Minors
No grade lower than a C (i.e., C- and below) may be applied to a chemistry minor. Credit toward the minor will not be allowed for both CHEM 220 and CHEM 241. At least nine credits must be earned at UNLV.

Nonchemistry Majors
Nonchemistry majors who seek rigorous preparation in chemistry for medical school, graduate school in other fields, or research positions should consider the sequence CHEM 121A, 121L, 122A, 122L, 241, 241L, 242, 242L, and possibly CHEM 421 and 474–475.

Probation
Students on probation must meet with their advisor to devise a course of study that, when successfully completed, will remove the student from probationary status; the course of study must be approved by the department chair. The course of study shall consist of at least 15 units that apply toward a degree in the major; ordinarily, the course of study will be required to be completed in one calendar year (i.e., two semesters and the summer term). The advisor may request that completion time be extended by one semester for good cause (e.g., more than 15 units in the course of study, course offering schedules, etc.). Failure to satisfactorily complete the probationary course of study is grounds for suspension from the department.
study is grounds for suspension from the department and the College of Sciences.

Advisement
See College of Sciences Advisement section for details.

Biochemistry Major - Bachelor of Science (BS)

Please see the UNLV College of Sciences, Chemistry department web page at www.unlv.edu/chemistry/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-biochemistry.

Please see advising information at the UNLV College of Science Advising at www.unlv.edu/sciences/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
Upon completion of all undergraduate programs in Chemistry and Biochemistry, students will have a broad understanding of chemistry's sub-disciplines by satisfactorily completing

- Introductory and foundational course work in chemistry, and in-depth course work in chemistry; all with laboratory emphasis. Additionally;
  - Students completing the B.S. program in Chemistry will complete intensive and comprehensive courses as identified by the American Chemical Society Guidelines for Bachelor Degree Programs including a research experience that provides for the development of the skills needed to be an effective professional chemist.

- Build and develop communication skills through writing laboratory reports, term papers, and presentation of seminars and poster seminars.
- Develop critical thinking. Critical thinking skills, development of problem solving abilities are implemented in the very first introductory courses common to all

The B.S. program in Chemistry is recognized by the ACS-CPT, and has enjoyed this status for over 40 years. Only about 30% of B.S. Chemistry programs in the United States have achieved this recognition.

- Students completing the B.S. program in Biochemistry will complete most of the same intensive and comprehensive courses in Chemistry with laboratory emphasis as students in the B.S. ACS program above. Additionally, students in this program will complete four intensive and comprehensive courses in Biochemistry along with an advanced Biochemistry Lab. This program also provides for flexibility in the selection of in-depth Biology course electives to complement the rigorous chemistry foundation of the program.

- Students completing the B.A. program in Chemistry will complete much of the in-depth course work in chemistry along with elective courses offered by departments from within the College of Sciences as well as other colleges within the university. There is greater flexibility in program design for customization of the program to individual student's career interests.
undergraduate programs offered. These skills are developed as students’ progress through the sequence of courses (meeting each course prerequisite in a well thought out and logical pattern) required for graduation in all of our programs.

- Develop intellectual growth by integrating into all of our courses concepts of ethics, laboratory safety and environmental stewardship applicable to the profession as well as to local, state, regional, national and international communities and society. Emphasis will be placed on the development of UULOs regarding Global/Multicultural Knowledge and Awareness, and Citizenship and Ethics.

- Graduates shall be able to demonstrate technical competency in the performance of basic laboratory operations, including solution preparation and standardization, common synthetic procedures, standard qualitative and quantitative analysis procedures, and operation of standard laboratory equipment.

- Graduates shall have an in-depth understanding of the theoretical basis of biochemistry, as well as areas of application of chemical principles.

- Graduates must be well versed in the language of biochemistry and should be capable of effectively communicating chemical knowledge in both written and oral forms.

- Graduates shall be able to function as chemical professionals in entry-level jobs or to succeed in graduate studies in biochemistry or related scientific fields.

**University Graduation Requirements**

- Please see Graduation Policies for complete information

**Biochemistry Degree Requirements - Total: 120 Credits**

**General Education Requirements - Subtotal: 33-36 Credits**

**First-Year Seminar - Credits: 2-3**

(See note 1 below)

**English Composition - Credits: 6**

- ENG 101 - Composition I
- ENG 102 - Composition II

**Second-Year Seminar - Credits: 3**

**Constitutions - Credits: 4-6**

**Mathematics - Fulfilled by the major requirements**

**Distribution Requirements - Credits: 18**

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 Credits**
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- **Social Science: 9 Credits**
  - One course each from three different fields

- **Life and Physical Sciences and Analytical Thinking:**
  - Automatically satisfied by Major requirements

**Multicultural and International**

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students
Major Requirements - BS in Biochemistry - Subtotal: 83 Credits

Mathematics - Credits: 8
- MATH 181 - Calculus I
- MATH 182 - Calculus II

Physics - Credits: 8
(see note 2)
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Biology - Credits: 22
- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics

and at least ten credits from the following list of courses:
Note: Make certain the prerequisites for each course selected are met before registration, some prerequisites may not be among those courses listed.
- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 412 - Molecular Evolution
- BIOL 415 - Evolution
- BIOL 417 - Biochemical Adaptations
- BIOL 425 - Genomics
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 445 - Cell Physiology
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 448 - Mammalian Physiology Laboratory
- BIOL 453 - Immunology
- BIOL 460 - Microbial Physiology
- BIOL 466 - Developmental Biology
- BIOL 468 - Histology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 475 - Neurobiology
- BIOL 480 - Introduction to Biological Modeling
- BIOL 481 - Advanced Cell Biology
- BIOL 485 - Microbial Genetics
- CHEM 478 - Endocrinology

Chemistry Major Requirements Credits: 46-49
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 242 - Organic Chemistry II
- CHEM 347 - Laboratory Techniques of Organic Chemistry I
- CHEM 348 - Laboratory Techniques of Organic Chemistry II
- CHEM 355 - Quantitative Analysis
- CHEM 355L - Quantitative Analysis Laboratory
- CHEM 421 - Physical Chemistry I
- CHEM 422 - Physical Chemistry II
- CHEM 455 - Instrumental Analysis
- CHEM 455L - Instrumental Analysis Laboratory
- CHEM 472 - Biochemistry Laboratory
- CHEM 474 - Biochemistry I
- CHEM 475 - Biochemistry II
- CHEM 476 - Advanced Topics in Biochemistry

and three additional credits of upper-division chemistry.

Total Credits: 120

Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First-Year Seminar requirement.
2. The sequence PHYS 180 - PHYS 181 - PHYS 182 (including labs) is an acceptable replacement for PHYS 151-PHYS 152 (including labs) sequence; however, any two course combination from PHYS 180, 181, and 182 is not an acceptable replacement.
3. At least 40 credits must be earned at the upper-division level (300 and above).
Chemistry Major - Bachelor of Arts (BA)

Please see the UNLV College of Sciences, Chemistry department web page at www.unlv.edu/chemistry/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-chemistry.

Please see advising information at the UNLV College of Science Advising at www.unlv.edu/sciences/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
Upon completion of all undergraduate programs in Chemistry and Biochemistry, students will have a broad understanding of chemistry's sub disciplines by satisfactorily completing

- Introductory and foundational course work in chemistry, and in-depth course work in chemistry; all with laboratory emphasis. Additionally;
  - Students completing the B.S. program in Chemistry will complete intensive and comprehensive courses as identified by the American Chemical Society Guidelines for Bachelor Degree Programs including a research experience that provides for the development of the skills needed to be an effective professional chemist. The B.S. program in Chemistry is recognized by the ACS-CPT, and has enjoyed this status for over 40 years. Only about 30% of B.S. Chemistry programs in the United States have achieved this recognition.
  - Students completing the B.S. program in Biochemistry will complete most of the same intensive and comprehensive courses in Chemistry with laboratory emphasis as students in the B.S. ACS program above. Additionally, students in this program will complete four intensive and comprehensive courses in Biochemistry along with an advanced Biochemistry Lab. This program also provides for flexibility in the selection of in-depth Biology course electives to complement the rigorous chemistry foundation of the program. Students completing the B.A. program in Chemistry will complete much of the in-depth course work in chemistry along with elective courses offered by departments from within the College of Sciences as well as other colleges within the university. There is greater flexibility in program design for customization of the program to individual student's career interests.
  - Build and develop communication skills through writing laboratory reports, term papers, and presentation of seminars and poster seminars.
  - Develop critical thinking. Critical thinking skills, development of problem solving abilities are implemented in the very first introductory courses common to all undergraduate programs offered. These skills are developed as students' progress through the sequence of courses (meeting each course pre-requisite in a well thought out and logical pattern)
required for graduation in all of our programs.

- Develop intellectual growth by integrating into all of our courses concepts of ethics, laboratory safety and environmental stewardship applicable to the profession as well as to local, state, regional, national and international communities and society. Emphasis will be placed on the development of UULOs regarding Global/Multicultural Knowledge and Awareness, and Citizenship and Ethics.

- Graduates shall be able to demonstrate technical competency in the performance of basic laboratory operations, including solution preparation and standardization, common synthetic procedures, standard qualitative and quantitative analysis procedures, and operation of standard laboratory equipment.

- Graduate shall have an in-depth understanding of the theoretical basis of chemistry, as well as areas of application of chemical principles.

University Graduation Requirements

Please see Graduation Policies for complete information.

Chemistry Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 33-36 Credits

First-Year Seminar - Credits: 2-3

(See note 1 below)

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics

Fulfilled by Major Requirements

Distribution Requirements - Credit: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- Social Science: 9 Credits
  - EPY 303 - Educational Psychology
  - and two 3 credits social science courses

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: https://www.unlv.edu/provost/multicultural-requirements

Major Degree Requirements - BA in Chemistry - Subtotal: 63 Credits
Mathematics - Credits: 8
- MATH 181 - Calculus I
- MATH 182 - Calculus II

Computer Science - Credits: 3
- CS 117 - Programming for Scientists and Engineers
  or
- CS 135 - Computer Science I

Physics - Credits: 8
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II (See note 3 below)

Chemistry Major Requirements - Credits: 44
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 242 - Organic Chemistry II
- CHEM 347 - Laboratory Techniques of Organic Chemistry I
- CHEM 348 - Laboratory Techniques of Organic Chemistry II
- CHEM 355 - Quantitative Analysis
- CHEM 355L - Quantitative Analysis Laboratory
- CHEM 421 - Physical Chemistry I
- CHEM 474 - Biochemistry I
- CHEM 455 - Instrumental Analysis
- CHEM 489 - Senior Poster Seminar

and eleven credits (including at least two credits of advanced laboratory) selected from:
- CHEM 312 - Introduction to Radiochemistry
- CHEM 422 - Physical Chemistry II
- CHEM 423 - Physical Chemistry Laboratory
- CHEM 428 - Quantum Chemistry
- CHEM 431 - Advanced Inorganic Chemistry
- CHEM 442 - Advanced Organic Chemistry
- CHEM 447 - Advanced Synthesis Laboratory
- CHEM 455L - Instrumental Analysis Laboratory
- CHEM 472 - Biochemistry Laboratory
- CHEM 475 - Biochemistry II
- CHEM 490 - Senior Independent Study in Chemistry
  or
- CHEM 492 - Advanced Topics in Chemistry

Electives Courses other than those listed above - Credits: 21-24

Total Credits: 120

Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First-Year Seminar requirement.
2. At least 40 credits must be earned at the upper-division level (300 and above).
3. The sequence PHYS 180-181-182 (including labs) is an acceptable replacement for PHYS 151-152 (including labs) sequence; however, any two course combination from PHYS 180, 181, and 182 is not an acceptable replacement.

Chemistry Major - Bachelor of Science (BS)

Please see the UNLV College of Sciences, Chemistry department web page at www.unlv.edu/chemistry/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-chemistry.

Please see advising information at the UNLV College of Science Advising at www.unlv.edu/sciences/advising.

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org
Learning Outcomes

Upon completion of all undergraduate programs in Chemistry and Biochemistry, students will have a broad understanding of chemistry's sub-disciplines by satisfactorily completing:

- Introductory and foundational course work in chemistry, and in-depth course work in chemistry; all with laboratory emphasis. Additionally:
  - Students completing the B.S. program in Chemistry will complete intensive and comprehensive courses as identified by the American Chemical Society Guidelines for Bachelor Degree Programs including a research experience that provides for the development of the skills needed to be an effective professional chemist. The B.S. program in Chemistry is recognized by the ACS-CPT, and has enjoyed this status for over 40 years. Only about 30% of B.S. Chemistry programs in the United States have achieved this recognition.
  - Students completing the B.S. program in Biochemistry will complete most of the same intensive and comprehensive courses in Chemistry with laboratory emphasis as students in the B.S. ACS program above. Additionally, students in this program will complete four intensive and comprehensive courses in Biochemistry along with an advanced Biochemistry Lab. This program also provides for flexibility in the selection of in-depth Biology course electives to complement the rigorous chemistry foundation of the program.
  - Students completing the B.A. program in Chemistry will complete much of the in-depth course work in chemistry along with elective courses offered by departments from within the College of Sciences as well as other colleges within the university. There is greater flexibility in program design for customization of the program to individual student's career interests.
  - Build and develop communication skills through writing laboratory reports, term papers, and presentation of seminars and poster seminars.
  - Develop critical thinking. Critical thinking skills, development of problem solving abilities are implemented in the very first introductory courses common to all undergraduate programs offered. These skills are developed as students' progress through the sequence of courses (meeting each course pre-requisite in a well thought out and logical pattern) required for graduation in all of our programs.
  - Develop intellectual growth by integrating into all of our courses concepts of ethics, laboratory safety and environmental stewardship applicable to the profession as well as to local, state, regional, national and international communities and society. Emphasis will be placed on the development of UULOs regarding Global/Multicultural Knowledge and Awareness, and Citizenship and Ethics.
  - Graduates shall be able to demonstrate technical
competency in the performance of basic laboratory operations, including solution preparation and standardization, common synthetic procedures, standard qualitative and quantitative analysis procedures, and operation of standard laboratory equipment.

- Graduates shall have an in-depth understanding of the theoretical basis of chemistry, as well as areas of application of chemical principles.
- Graduates shall be able to function as chemical professionals in entry-level jobs or to succeed in graduate studies in chemistry or related scientific fields.

University Graduation Requirements
- Please see Graduation Policies for complete information

Chemistry Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal 33-36

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6
  - ENG 101 - Composition I
  - ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics

Fulfilled by Major Requirements

Distribution Requirements - Credits: 18

Please see Distribution Requirement for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- Social Science: 9 Credits
  - One course each from three different fields.

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirement.

Multicultural and International
(see note 1 below)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: https://www.unlv.edu/provost/multicultural-requirements

Major Requirements - BS in Chemistry - Subtotal: 84-87 Credits
(see note 2 below)

Mathematics - Credits: 15
- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III
- MATH 431 - Mathematics for Engineers and Scientists I

Statistics- Credits: 3-6
- STAT 152 - Introduction to Statistics
  or
  [Before]
• STAT 411 - Statistical Methods I  
  and  
• STAT 412 - Statistical Methods II  
  or  
• [Before]  
• STAT 491 - Statistics for Scientists I  
  and  
• STAT 492 - Statistics for Scientists II

**Physics - Credits: 12**

• PHYS 180 - Physics for Scientists and Engineers I  
• PHYS 180L - Physics for Scientists and Engineers Lab I  
• PHYS 181 - Physics for Scientists and Engineers II  
• PHYS 181L - Physics for Scientists and Engineers Lab II  
• PHYS 182 - Physics for Scientists and Engineers III  
• PHYS 182L - Physics for Scientists and Engineers Lab III

**Chemistry Major Requirements - Credits: 51-57**

• CHEM 121A - General Chemistry I  
• CHEM 121L - General Chemistry Laboratory I  
• CHEM 122A - General Chemistry II  
• CHEM 122L - General Chemistry Laboratory II  
• CHEM 241 - Organic Chemistry I  
• CHEM 242 - Organic Chemistry II  
• CHEM 347 - Laboratory Techniques of Organic Chemistry I  
• CHEM 348 - Laboratory Techniques of Organic Chemistry II  
• CHEM 355 - Quantitative Analysis  
• CHEM 355L - Quantitative Analysis Laboratory  
• CHEM 421 - Physical Chemistry I  
• CHEM 422 - Physical Chemistry II  
• CHEM 423 - Physical Chemistry Laboratory  
• CHEM 428 - Quantum Chemistry  
• CHEM 431 - Advanced Inorganic Chemistry  
• CHEM 447 - Advanced Synthesis Laboratory  
• CHEM 455 - Instrumental Analysis  
• CHEM 455L - Instrumental Analysis Laboratory  
• CHEM 474 - Biochemistry I  
• CHEM 491 - Senior Seminar in Chemistry  
• CHEM 493 - Senior Research in Chemistry I  
• CHEM 494 - Senior Research in Chemistry II  
  and zero to six credits selected from: (to satisfy 120 total credits for degree)  
• CHEM 312 - Introduction to Radiochemistry  
• CHEM 442 - Advanced Organic Chemistry  
• CHEM 472 - Biochemistry Laboratory  
• CHEM 475 - Biochemistry II  
• CHEM 476 - Advanced Topics in Biochemistry  
• CHEM 492 - Advanced Topics in Chemistry

Total Credits: 120

**Notes**

1. German or Russian is strongly recommended. Up to six credits of foreign language may be used to satisfy the General Education Core Humanities requirement.

2. At least 40 credits must be earned at the upper-division level (300 and above).

**Chemistry Minor**

**Courses Include - Total Credits: 24**

CHEM 121A - General Chemistry I,  
CHEM 121L - General Chemistry Laboratory I  
and  
CHEM 122A - General Chemistry II, CHEM 122L - General Chemistry Laboratory II  
plus 16 additional credits of chemistry in courses numbered 220 or higher. At least 12 credits must be upper division. Credit will not be allowed toward the total of 24 for completing both CHEM 220 and CHEM 241. See departmental policies for further details.
Chemistry

CHEM 103 - Preparatory Chemistry
Primarily for students who are Science or Engineering majors and do not place into CHEM 121A. This course will prepare them for CHEM 121A.
Credits: 3
Prerequisites: The department placement exam, and a passing grade of C or better in MATH 96 or placement in MATH 126 or higher.
Notes: Does not satisfy the General Education Core Science requirement.

CHEM 108 - Introduction to Chemistry
Elementary principles of general, organic and biochemistry, and their applications to living systems. For students majoring in nursing, pre-nursing and selected allied health programs.
Credits: 4
Prerequisites: Minimum grade of C- in MATH 120 or MATH 124 or higher (Math 126,127,128,132,170,176,181,182, 251, 271, 283).
Notes: Does not satisfy the General Education Core Science requirement, nor the prerequisite for CHEM 121A.

CHEM 121A - General Chemistry I
Fundamental principles of chemistry and their correlation with the properties of the elements.
Credits: 3
Corequisites: MATH 126 or placement into MATH 127 or MATH 128 or higher. CHEM 121L is required if enrolling in CHEM 121A for the first time.
Prerequisites: A passing score on the Chemistry Placement Exam or a grade of C or better in CHEM 103.
Notes: Credit not allowed in both CHEM 121 and CHEM 121A

CHEM 121L - General Chemistry Laboratory I
Laboratory experiments to accompany CHEM 121A.
Credits: 1
Corequisites: MATH 126 or placement into MATH 127 or MATH 128 or higher, and CHEM 121A.
Prerequisites: A passing score on the Chemistry Placement Exam or a grade of C or better in CHEM 103.
Notes: Credit not allowed in both CHEM 121 and CHEM 121L.

CHEM 122A - General Chemistry II
Application of chemical principles to properties of inorganic substances. Emphasis on kinetics, equilibria, thermodynamics, and electrochemistry.
Credits: 3
Corequisites: CHEM 122L is required if enrolling in CHEM 122A for the first time.
Prerequisites: CHEM 121 or CHEM 121A and CHEM 121L, and MATH 126 with a grade of "C" or better.
Notes: Credit not allowed in both CHEM 122 and CHEM 122A.

CHEM 122L - General Chemistry Laboratory II
Laboratory experiments to accompany CHEM 122A.
Credits: 1
Corequisites: CHEM 122A
Prerequisites: Grade of C or better in each of the following: MATH 126, and CHEM 121 or equivalent (CHEM 121A and CHEM 121L).
Notes: Credit not allowed in both CHEM 122 and CHEM 122L.

CHEM 123 - Qualitative Analysis Laboratory
Laboratory portion of CHEM 122A. Open only to students with scores of four or five on the Chemistry Advanced Placement Test of the College Entrance Examination Board. Satisfies CHEM 121-122 for these students.
Credits: 2
Prerequisites: A score of four or five on the Advanced Placement Test in Chemistry.

CHEM 190 - Freshman Independent Study in Chemistry
Introduction to research in a chemistry lab. Students work under close supervision of a faculty member to develop research skills.
Credits: 1
Prerequisites: CHEM 121A and CHEM 121L or a score of three or better on the AP Chemistry Exam; consent of faculty member directing the research prior to registration.
May be repeated to a maximum of three credits.

CHEM 241 - Organic Chemistry I
Intensive introduction to the theory of carbon chemistry with particular emphasis on understanding the relationship between the structure and behavior of organic molecules. Credit toward meeting chemistry program requirements not allowed in both CHEM 220 and CHEM 241.
Credits: 3
Prerequisites: CHEM 122A, 122L.
Students are limited to two (2) attempts for this course regardless of first registration status (grade, drop, withdraw or audit). Students who require permission for additional registrations should contact the Chemistry Department.

CHEM 241L - Organic Chemistry for Life Sciences Lab I
Laboratory exercises in introductory organic chemistry. Stereochemistry, separation and purification techniques, micro-scale organic reaction procedures.
Credits: 1
Corequisites: CHEM 241.
Prerequisites: Students are limited to two (2) attempts for this course regardless of first registration status (grade, drop, withdraw or audit). Students who require permission for additional registrations should contact the Chemistry Department.
Biochemistry and Chemistry majors should not take CHEM 241L.

CHEM 242 - Organic Chemistry II
Continuation of CHEM 241 with emphasis on complex reactions and mechanisms, and introduction to advanced approaches for the synthesis of organic molecules. Credit not allowed in both CHEM 220 and CHEM 241-242.
Credits: 3
Prerequisites: Minimum grade of C- in CHEM 241. Students are limited to two (2) attempts for this course regardless of first registration status (grade, drop, withdraw or audit). Students who require permission for additional registrations should contact the Chemistry Department.

CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
Laboratory exercises in intermediate organic chemistry with continued emphasis on micro-scale organic reaction procedures. Introduction to the identification of organic compounds using chemical and instrumental means (qualitative analysis).
Credits: 1
Corequisites: CHEM 242.
Prerequisites: CHEM 241L
Students are limited to two (2) attempts for this course regardless of first registration status (grade, drop, withdraw or audit). Students who require permission for additional registrations should contact the Chemistry Department.
Biochemistry and Chemistry majors should not take CHEM 242L.

CHEM 302 - Chemistry Demonstrations for Science Teachers
Provides an opportunity for science teachers to perform practical chemistry demonstrations and to review fundamental chemical principles. These demonstrations suitable for incorporation into the physical, biological, and earth science curricula.
Credits: 2
Prerequisites: Consent of instructor and either a teaching certificate or bachelor’s degree.

CHEM 312 - Introduction to Radiochemistry
Introduction to the fundamental principles of radiation science for radiochemists. Introduction to radioactivity, interaction of radiation with matter, and effects of radiation on biological systems. Discussion and overview of practical applications of radiochemistry, including nuclear medicine, radiochemical techniques, nuclear chemical
CHEM 347 - Laboratory Techniques of Organic Chemistry I
Laboratory exercises in introductory organic chemistry for chemistry majors. Stereochemistry, separation and purification techniques, macro-scale organic reaction procedures.
Credits: 2
Corequisites: CHEM 241.

CHEM 348 - Laboratory Techniques of Organic Chemistry II
Laboratory exercises in intermediate organic chemistry with continued emphasis on macro-scale reaction procedures. Introduction to advanced purification, separation, qualitative analysis, and spectroscopic techniques.
Credits: 2
Corequisites: CHEM 242
Prerequisites: CHEM 347

CHEM 355 - Quantitative Analysis
Theory and techniques of quantitative analysis, particularly gravimetric, titrimetric, complex metric, potentiometric, and calorimetric methods. Standard chromatographic and spectroscopic techniques also covered. Emphasis upon chemical calculations and equilibrium considerations.
Credits: 3
Prerequisites: CHEM 220 or CHEM 241 plus either CHEM 241L or CHEM 347.
Notes: Students are limited to two (2) registrations for this course regardless of first registration status (grade, drop, withdraw or audit). Students can only enroll in this course through the Chemistry Department Office.

CHEM 355L - Quantitative Analysis Laboratory
Laboratory stressing the application and techniques of quantitative analysis, particularly gravimetric, titrimetric, complex metric, and molecular spectroscopy. Credit at the 600-level requires additional work.

CHEM 421 - Physical Chemistry I
Thermodynamics, solution behavior, chemical equilibrium, and kinetics.
Credits: 3
Prerequisites: CHEM 122 or both CHEM 122A and CHEM 122L; and either 1) PHYS 152 and MATH 182 or 2) concurrent registration in PHYS 182.
Notes: This course is crosslisted with CHEM 621.

CHEM 422 - Physical Chemistry II
Introductory quantum mechanics, atomic and molecular structure, chemical bonding, and molecular spectroscopy.
Credits: 3
Prerequisites: CHEM 421.
Notes: This course is crosslisted with CHEM 622.

CHEM 423 - Physical Chemistry Laboratory
Introduction to modern physicochemical laboratory techniques and their use in elucidating chemical and electronic properties.
Credits: 2
Prerequisites: CHEM 421 and CHEM 422

CHEM 428 - Quantum Chemistry
Introduction to quantum mechanics and molecular orbital theory as related to bonding, spectra, and reactivity. Includes an introduction to computerized electronic structure calculations.
Credits: 3
Prerequisites: CHEM 422, MATH 182 and PHYS 181
or PHYS 182.
Notes: This course is crosslisted with CHEM 628. Credit at the 600-level requires additional work.

CHEM 431 - Advanced Inorganic Chemistry
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.
Credits: 3
Corequisites: CHEM 422.
Notes: This course is crosslisted with CHEM 631. Credit at the 600-level requires additional work.

CHEM 442 - Advanced Organic Chemistry
Builds on the background of the one-year organic chemistry course. Emphasizes advanced concepts of reactivity, single-step and multistep transformations, important named reactions, as well as mechanistic and functional group approaches to synthesis.
Credits: 3
Prerequisites: CHEM 242.

CHEM 447 - Advanced Synthesis Laboratory
Preparation, purification, and characterization of organic and inorganic compounds.
Credits: 2
Prerequisites: CHEM 242.

CHEM 449 - Polymer Chemistry
Synthesis, characterization, morphology, bulk and solution properties of polymers; polymerization mechanisms.
Credits: 3
Prerequisites: CHEM 242

CHEM 455 - Instrumental Analysis
Fundamental laws and principles of instrumental determinations, including spectroscopy, spectrophotometry, electrochemical methods, and thermal analysis as main areas of study.
Credits: 3
Corequisites: CHEM 421.

Prerequisites: CHEM 355 and CHEM 355L.
Notes: This course is crosslisted with CHEM 655. Credit at the 600-level requires additional work.

CHEM 455L - Instrumental Analysis Laboratory
Laboratory stressing the application and techniques of instrumental analysis including spectroscopy, spectrophotometry, electrochemical methods, and thermal analysis and the use of these methods in chemical analysis.
Credits: 2
Prerequisites: CHEM 355, CHEM 355L and concurrent enrollment in CHEM 455.

CHEM 472 - Biochemistry Laboratory
Introduction to analytical techniques of biochemistry as tools to study cellular components. Techniques may include centrifugation, spectrophotometry, chromatography, and electrophoresis.
Credits: 3
Prerequisites: CHEM 355, CHEM 355L, CHEM 474, and Biochemistry major.
Notes: Lab/Lecture/Studio Hours: Six-hour laboratory and one-hour lecture Credit at the graduate-level requires additional work; this course is crosslisted with CHEM 672

CHEM 474 - Biochemistry I
Fundamentals of biochemistry with emphasis on the structure-function relationships of proteins, enzymes, carbohydrates, lipids and nucleic acids; bioenergetics; and intermediary metabolism and the mechanisms of its regulation.
Credits: 3
Prerequisites: CHEM 242.
Notes: This course is crosslisted with CHEM 674. Credit at the 600-level requires additional work.

CHEM 475 - Biochemistry II
Continuation of CHEM 474 with emphasis on anabolic and catabolic pathways; gene replication and expression in prokaryotes and eukaryotes; recombinant DNA; and various aspects of physiological chemistry.
CHEM 476 - Advanced Topics in Biochemistry
In-depth study of selected topics of current and general interest in biochemistry. Topics may include enzymes, nucleic acids, metabolism, molecular genetics, neurochemistry, toxicology, and human biochemistry.
Credits: 3
Prerequisites: CHEM 475
Notes: This course is crosslisted with CHEM 676. Credit at the 600-level requires additional work. May be repeated (different topic).

CHEM 477 - Endocrinology
(Same as BIOL 414.) Survey of the structure and function of vertebrate endocrine systems, with emphasis on the biochemical basis of hormone action and the role of cell communication in endocrine physiology.
Credits: 3
Prerequisites: CHEM 474 recommended.
Notes: This course is crosslisted with CHEM 678. Credit at the 600-level requires additional work.

CHEM 489 - Senior Poster Seminar
Topics of current research in all fields of chemistry, matters of professional concern. Includes presentation of a poster seminar on a selected topic.
Credits: 1
Prerequisites: CHEM 355 CHEM 355L, CHEM 421.
May be repeated to a maximum of two credits.

CHEM 490 - Senior Independent Study in Chemistry
Modest research projects for students working toward the Bachelor of Arts degree and demonstrating aptitude for independent work.
Credits: 1-3
Prerequisites: No more than three credits of CHEM 490 may be applied toward a chemistry degree.
Consent of the faculty member directing the project must be obtained prior to registration. May be repeated once.

CHEM 491 - Senior Seminar in Chemistry
Includes oral presentations of topics of current research in any field of chemistry. Only required for BS Chemistry, but recommended as an elective for any student interested in graduate school.
Students in other Chemistry degree programs should take CHEM 489 instead.
Credits: 1
Prerequisites: CHEM 355 and CHEM 421.
May be repeated to a maximum of two credits.

CHEM 492 - Advanced Topics in Chemistry
Selected topics from the various disciplines of chemistry not covered by any other course offerings and of current interest to students and faculty.
Credits: 1-2
Prerequisites: CHEM 242.
May be repeated to a maximum of four credits.

CHEM 493 - Senior Research in Chemistry I
Individual laboratory projects drawn from any field of chemistry. Preliminary library work, equipment acquisition, and apparatus assembly and initiation of laboratory work as time allows.
Credits: 1
Corequisites: CHEM 421.
Prerequisites: (Consent of the faculty member directing the project must be obtained prior to registration.) For students in the general B.S. in Chemistry program, prerequisites are CHEM 242, CHEM 422, CHEM 423, and CHEM 455. For students in the Biochemistry B.S. program, prerequisites are CHEM 355, CHEM 472, and CHEM 475;
May be repeated to a maximum of two credits.
CHEM 494 - Senior Research in Chemistry II  
Continuation of CHEM 493. Intensive experimental work.  
Credits: 2  
Prerequisites: CHEM 493.  
May be repeated to a maximum of four credits.

GEOL 330 - Introduction to Geochemistry  
Introduction to the chemistry of geologic processes, including low-temperature aqueous geochemistry and petro geochemistry.  
Credits: 3  
Prerequisites: [MATH 127 or MATH 128 or higher] and minimum grade of C in GEOL 220.
Geoscience

Purpose and Focus
The Department of Geoscience offers two degree programs for majors interested in the geological sciences. These programs are designed to prepare students for specific career paths in geoscience including the pursuit of graduate degrees. In addition, the department wishes to communicate the flavor and excitement of the geological sciences to all students at the university by offering a number of introductory courses that are directed toward students of all backgrounds and goals.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Majors
Earth and Environmental Science
Geology

Admission to the Major
Minimum GPA: 2.50

Transfer Policies
All transfer students should meet with an advisor without delay after admission in order to evaluate the applicability of previous course work to UNLV, their major, and graduation requirements.

Department Policies
Graduation Requirements
For graduation with a major in Earth and Environmental Science, major in Geology, or minor in Geology, a minimum final grade of C (2.00) is necessary in all required courses with a GEOG or GEOL prefix. In addition, before enrolling in any course with a GEOG or GEOL prefix, the student must have completed all GEOG and GEOL prerequisites for that course with a grade of C or higher.

Probation
A student will be placed on probation for any of the following reasons:

1. The student's cumulative GPA falls below 2.00.
2. The student's semester GPA is below 2.00 for all degree courses.
3. The student receives D, F, or I grade in more than two courses in one semester.
4. The student transfers into the college from another program at UNLV or from another institution with a GPA less than 2.50 but at least 2.00.

Requirements for Probationary Students
Once a student has been placed on probation as a major in the department, the following general guidelines apply:

1. The student must meet with a faculty advisor to agree upon a probationary course of study. This course of study must include at least 15 credits that apply toward a degree in the major, with a majority of the credits coming from courses in the college, unless all requirements within the college have been completed. Specific courses will be selected in consultation with the faculty advisor based on the student’s previous progress and on established degree program requirements. Upon agreement on a course of study, the advisor will place a memorandum outlining the course of study in the student's file.

2. Students are expected to complete the probationary course of study within two consecutive semesters and one summer. With approval of the faculty advisor, three consecutive semesters (and the intervening summer) may be allowed if course schedules make it necessary. Students who complete the probationary course of study within the allotted time
with a GPA (for the course of study only) of at least 2.50 will be removed from probation.

**Advisement**

Students who declare a major in geology or earth and environmental science are automatically assigned a faculty advisor. The student is required to meet with the advisor at least once a year, but the department recommends each semester.

**Earth and Environmental Science Major - Bachelor of Science (BS)**

Please see the UNLV College of Science, Department of Geoscience web page at http://geoscience.unlv.edu for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-earth-environmental-science.

Please see advising information at the UNLV College of Science at www.unlv.edu/sciences/advising.

**Accreditation**

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Learning Outcomes**

1. Demonstrate the ability to recognize, formulate, employ, and interpret the scientific methodology
2. Demonstrate the knowledge of major rock types, geologic time, evolution, and earth history events
3. Demonstrate the knowledge in various specializations within the field of earth science to solve appropriate research or applied problems.
4. Demonstrate the ability to function independently, collaboratively, and ethically with others in the profession as colleagues and supervisors
5. Demonstrate the written and verbal communications skills required to convey contemporary theories in earth science and in how the Earth operates as a system
6. Demonstrate sufficient skills in computers and multi-media systems for the application and presentation in earth science

**University Graduation Requirements**

- Please see Graduation Policies for complete information

**Earth and Environmental Science Degree Requirements - Total: 120 Credits**

**General Education Requirements - Subtotal: 33-36 Credits**

First-Year Seminar - Credits: 2-3

(see note 1 below)

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: (Fulfilled by Major Requirements)

Distribution Requirement: Life and Physical Sciences and Analytical Thinking

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 Credits**
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- **Social Science: 9 Credits**
One course each from three different fields.

- **Life and Physical Sciences and Analytical Thinking:**
  - Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facsenate.unlv.edu/students

Major Requirements - BS in Earth and Environmental Science - Subtotal: 89-92

**Writing Requirement - Credits: 3**
(Select 3 credits from the following)
- ENG 407B - Fundamentals of Technical Writing
- ENG 405B - Research and Editing
- ENG 407A - Fundamentals of Business Writing
- ENG 407C - Advanced Professional Communication

**Required Department Courses - Credits: 14-15**
Any GEOL/GEOG 100 level course for no more than 4 credits and
- GEOL 102 - Earth and Life Through Time
- GEOL 220 - Mineralogy
- GEOG 335 - Earth Resources and the Environment

**Related Required Courses - Credits: 12-14**
- MATH 128 - Precalculus and Trigonometry
  or
- MATH 126 - Precalculus I
- MATH 127 - Precalculus II
  or
- MATH 181 - Calculus I or higher
  and
- CHEM 121A - General Chemistry I or higher
- CHEM 121L - General Chemistry Laboratory I
- PHYS 151 - General Physics I
- PHYS 151L - General Physics I or higher

**Geology Electives at 200 level or above, with at least 21 credits of additional Geology and Geography 300 level or above - Total Credits: 28**

**Additional Electives in Geology or other topics, at least 13 credits above 300 level - Total Credits: 30**

Total Credits: 120

**Notes**

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Students must complete 40 upper-division credits (satisfied by the degree requirements in the major).

**Geology Major - Bachelor of Science (BS)**

Please see the UNLV College of Sciences, Geoscience department web page at http://www.unlv.edu/degree/bs-geology for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-geology

Please see advising information at the UNLV College of Science Advising at www.unlv.edu/sciences/advising.
Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
By the end of the Geology program students will be:

1. Identify common rock-forming minerals in hand specimen and thin section, major rock types and will be able to describe the conditions under which each of them formed. This will include being able to describe the chemical characteristics of various types of rocks, geologic influences on environmental pollutants, and the use of stable and radiogenic isotopes as environmental tracers and tools in dating rocks and water.
2. Identify the common types of invertebrate and vertebrate fossils, their approximate age, and the environments in which they lived, and have a grounding in the historical development of the field of geology.
3. Recognize, in the field, various types of geologic structures, and be able to use these to reconstruct the structural history of a region.
4. Describe the major processes that determine the characteristics of the earth’s surface, and be able to examine a landscape and interpret its geomorphic history.
5. Describe the plate-tectonic history of the earth (when various supercontinents assembled and fragmented), the relationship between plate tectonic processes and mountain building, and the types of data that are used to reconstruct the position of a particular plate in the geologic past.
6. Describe the regional stratigraphic framework of the Southern Nevada region; they will also be able to go into a new region that has a well-exposed stratigraphic record, and reconstruct the sediment logical history of the region.
7. Be facile in computer applications in geology including spatial and imagery analysis applications, quantitative skills, and express themselves well in oral and written reports.
8. Apply the techniques of at least two specializations within the field of geology (e.g., geophysics, hydrogeology, GIS, geochronology, petroleum geology) to the solution of appropriate research or applied problems.
9. Able to demonstrate the ability to function independently, collaboratively, and ethically with others in the profession as colleagues and supervisors.
10. Demonstrate the ability to enter a new field area, construct a geologic map on a topographic base, interpret the geologic history of the area, and write a professional quality report on the geology of the area. This learning objective comprises the Capstone experience for this degree program and is fulfilled through the summer field geology course. It also includes the ability to recognize, formulate, employ, and interpret the scientific methodology, and employ critical thinking skills. Many other learning outcomes for this degree program are also reinforced through this capstone experience (For instance, outcomes 1-5, and 9).

University Graduation Requirements
- Please see Graduation Policies for complete information

Geology Degree Requirements - Total: 120 Credits

To develop a level of geologic competency in our graduates so they are equipped to compete successfully for entry-level jobs in the geological job market and/or for admission to graduate programs offered by accredited universities and colleges. To accomplish the above:
1. The B.S. in Geology degree is intended to recognize, formulate, employ, and interpret the scientific methodology that is appropriate to geological research.

2. All students will graduate with competency in correctly identifying the properties, characteristics, and behavior of earth materials.

3. Graduating students will be proficient in the production and interpretation of geologic maps.

4. All graduates will have a working knowledge of those scientific disciplines ancillary to the science of geology: chemistry, physics, and mathematics.

5. All students will have the ability to function independently, collaboratively, and ethically with others in the profession.

6. Each graduate will demonstrate the written and verbal communications skills required to convey the results of scientific research.

General Education Requirements - Subtotal 33-36 Credits

First-Year Seminar - Credits: 2-3

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics

- Fulfilled by the major requirement
  - MATH 181 - Calculus I or higher

Distribution Requirement - Credits: 18

Please see Distribution Requirement for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- Social Science: 9 Credits
  - One course each from three different fields.

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

(see note 2 below)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BS in Geology - Subtotal: 61 Credits

Writing Requirement - Credits: 3

(Select 3 credits from the following)

- ENG 405B - Research and Editing
- ENG 407A - Fundamentals of Business Writing
- ENG 407B - Fundamentals of Technical Writing
- ENG 407C - Advanced Professional Communication

Required Department Courses - Credits: 33-34
Any GEOL/GEOG 100 level course for no more than 4 credits
- GEOL 102 - Earth and Life Through Time
- GEOL 220 - Mineralogy
- GEOL 333 - Principles of Geomorphology
- GEOL 442 - Structural Geology
- GEOL 448 - Field Geology I
- GEOL 472 - Advanced Field Geology
- GEOL 327 - Igneous and Metamorphic Petrology/Petrography
- GEOL 362 - Principles of Stratigraphy and Sedimentation

Related Required Courses - Credits: 23-24

Math:
- MATH 181 - Calculus I
- MATH 182 - Calculus II
or
- STAT 152 - Introduction to Statistics
or
- STAT 491 - Statistics for Scientists I

Science:
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
and either
- GEOL 330 - Introduction to Geochemistry
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II

- PHYS 151 - General Physics I
and
- PHYS 152 - General Physics II
or
- PHYS 180 - Physics for Scientists and Engineers I
and
- PHYS 180L - Physics for Scientists and Engineers Lab I
and
- PHYS 181 - Physics for Scientists and Engineers II
and
- PHYS 181L - Physics for Scientists and Engineers Lab II

- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Electives - Credits: 28

Additional Electives in Geology and other topics (at least 9 must be 300 level or above in GEOL.)

Total Credits: 120

Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Students must complete 40 upper-division credits (satisfied by the degree requirements in the major).

Earth and Environmental Science Minor

The student and geoscience advisor must agree upon the courses chosen to satisfy the earth and environmental science minor. This list must be signed by the student and advisor and placed on permanent record in the student's file.

Courses Include - Total Credits: 23

The Earth and Environmental Science Minor is tailored for students outside the College of Sciences. It provides a good background in the topics likely to be covered in an earth science teaching position in Clark County and other areas as well as a solid background to appreciate the natural landscapes and resources in Southern Nevada and the world. Consists of the following course work:

- GEOL 101 - Exploring Planet Earth
- GEOL 102 - Earth and Life Through Time
and one of the following:
GEOG 103 - Physical Geography of Earth's Environment
GEOL 105 - Introduction to Geology of National Parks
GEOL 100 - Natural Disasters

Choose at least 12 credits from GEOL and GEOG courses numbered 300 or above. No more than 12 credits taken for the minor may be used to satisfy requirements in a student’s major.

**Geology Minor**

Courses Include - Total Credits: 23

The Geology minor is tailored to the needs of students within the Colleges of Science or Engineering, or is for other majors with a scientific emphasis. Consists of required coursework including:
GEOL 101 - Exploring Planet Earth
GEOL 220 - Mineralogy

and one of the following:
GEOL 221 - Introduction to Optical Mineralogy and Petrography
or
GEOL 102 - Earth and Life Through Time

Choose at least 12 credits from GEOL and GEOG courses numbered 300 or above. No more than 12 credits taken for the minor may be used to satisfy requirements in a major.

No course in which a grade of C or lower is earned may be applied to any minor in the College of Sciences.

**Physical Geography Minor**

Physical Geography Minor - Total Credits: 24

The Physical Geography minor is designed for students in the Colleges of Science, Education, Liberal Arts, Engineering, and others, who desire a scientific understanding of the spatial aspects of the Earth System and analysis of spatial data. The minor emphasizes the four spheres of the Earth System: Atmosphere, Lithosphere, Hydrosphere, and Biosphere.

The minor consists of required coursework including:
- GEOG 103 - Physical Geography of Earth’s Environment
- GEOG 104 - Physical Geography Laboratory
- GEOL 333 - Principles of Geomorphology
- GEOG 430 - Geographic Information Systems (GIS): Theory and Applications

Choose an additional 12 or more elective credits from:
- GEOL 100 - Natural Disasters
- GEOL 101 - Exploring Planet Earth
- GEOL 110 - Global Warming
- GEOL 303 - Global Environmental Change
- GEOG 335 - Earth Resources and the Environment
- GEOG 421 - Climatology

**Geoscience**

GEOG 103 - Physical Geography of Earth’s Environment

Introduction to the processes that influence weather, rivers, oceans, climate, deserts, glaciers and their associated ecosystems. Emphasizes relationships between humans and our environment.
Credits: 3
Notes: Satisfies the General Education Core requirement for a science course. Lecture may be combined with optional lab GEOG 104, which satisfies General Education Core requirement for a laboratory science course.

GEOG 104 - Physical Geography Laboratory

Provides an opportunity to apply concepts in physical geography, including map interpretation,
computer GIS, meteorological processes, development of landforms and an understanding of the dynamics of the earth.
Credits: 1
Corequisites: GEOG 103.

**GEOG 116 - Introduction to Oceanography**
Fundamentals of oceanography will be covered including a brief history followed by the spatial aspects of geological, physical, chemical and biological oceanography. An emphasis will be placed on the role of oceans on climate change in the past, present and future, including global warming.
Credits: 3

**GEOG 140 - Conversations with Earth**
Discussion of current topics on Earth's origin, evolution, and habitability. Topics include: radioactive waste storage, catastrophic floods, evolution and extinction on life, climate change, global warming, volcanism, mountain building, ice ages, Nevada geology, ore deposits, and groundwater, among others.
Credits: 3

**GEOG 335 - Earth Resources and the Environment**
Geological availability, exploitation, and use of nonrenewable natural resources including metallic minerals, nonmetallic, energy resources. Component of the Environmental Studies Program. Duplicate credit not allowed in GEOG/GEOL 335.
Credits: 3
Notes: Same as GEOL 335.

**GEOG 421 - Climatology**
Physical characteristics of the atmosphere. World climatic classification. Local atmospheric field study.
Credits: 3
Prerequisites: GEOG 103.
Notes: This course is crosslisted with GEOG 621.
Credit at the 600-level requires additional work.

**GEOG 430 - 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.
Credits: 4
Prerequisites: MATH 127 or MATH 128.
Notes: This course is crosslisted with GEOL 630.
Credit at the 600-level requires additional work.

**GEOL 100 - Natural Disasters**
Causes of natural disasters and their impact on people and property. Focuses on geological hazards such as earthquakes, volcanic eruptions, landslides, and floods.
Credits: 3

**GEOL 101 - Exploring Planet Earth**
Basics of geology including the birth and evolution of planet Earth, geologic time, plate tectonics, earthquakes, volcanic eruptions, natural resources, and surface processes. Understanding how geology is important to your life.
Credits: 4
Notes: Satisfies the General Education Core requirement for a science course AND a laboratory science course.

**GEOL 102 - Earth and Life Through Time**
Systematic review of the history of the earth and the methods by which the details of earth history are unraveled.
Credits: 4
Prerequisites: A minimum of a C in one of GEOL 101, GEOL 100 or GEOG 103.
Notes: Field trips required.

**GEOL 110 - Global Warming**
Learn the science of global warming, including natural climate variability versus human-caused climate change, and impacts on glaciers, water supplies, oceans, and species. Understand what
models tell us about the future and the impact of our carbon footprints on sustainability.

Credits: 3
Notes: Satisfies the General Education Core requirement for a science course.

GEOL 220 - Mineralogy
Study of classification, chemistry, physical properties, and crystallography of minerals forming rocks, ore deposits and soils. Identification of hand samples. Study of associations of minerals in geologic environments.
Credit: 4
Prerequisites: CHEM 121A and CHEM 121L and (MATH 127 or MATH 128 or higher).

GEOL 221 - Introduction to Optical Mineralogy and Petrography
Optical properties of minerals in thin section. Laboratory identification of minerals based on optical properties. Study of associations of minerals in thin sections of rocks. Introduction to petrography.
Credit: 3
Prerequisites: Minimum grade of C in GEOL 220.

GEOL 301 - Fossil Record
History and evolution of life as recorded in the fossil record.
Credit: 3
Prerequisites: GEOL 102 or BIOL 189 or BIOL 197.

GEOL 302 - Paleontology Laboratory
Identification of the major fossil forming groups and analysis of paleontological data, with emphasis on invertebrates.
Credit: 1
Prerequisites: or Corequisite: GEOL 301.
Notes: Field trips required.

GEOL 303 - Global Environmental Change
Interdisciplinary introduction to the dynamics of the interactions among the lithosphere, biosphere, and atmosphere and their effects on the environment throughout geologic time.

Emphasizes dimensions and consequences of both natural and human induced climate change.
Credit: 3
Prerequisites: Junior standing.

GEOL 327 - Igneous and Metamorphic Petrology/Petrography
Igneous and Metamorphic Petrology/Petrography
Description, classification, and interpretation of igneous and metamorphic rocks in hand specimen and thin section.
Credit: 4
Prerequisites: A minimum grade of C in GEOL 220.

GEOL 333 - Principles of Geomorphology
Description and classification of landforms; evaluation of erosional and depositional processes with respect to earth materials, structure, and geologic history.
Credit: 4
Prerequisites: A minimum of a C in one of GEOL 100 or GEOL 101 or GEOG 103.

GEOL 334 - Environmental Geology
Control and use of the geological environment in modern society. Includes surface and sub-surface processes, mineral resources, and rock properties.
Credit: 3
Prerequisites: GEOL 333.

GEOL 335 - Earth Resources and the Environment
Geological availability, exploitation, and use of nonrenewable natural resources including metallic minerals, nonmetallic, energy resources. Component of the Environmental Studies Program. Duplicate credit not allowed in GEOL/GEOG 335.
Credit: 3
Notes: Same as GEOG 335.

GEOL 352 - Field Trip
Field trip to selected areas of geologic significance.
Credit: 1-3
Prerequisites: GEOL 101 or equivalent and consent of instructor.
May be repeated once for credit.
**GEOL 362 - Principles of Stratigraphy and Sedimentation**
Credits: 4
Prerequisites: Minimum grade of C in both GEOL 102 and GEOL 220.

**GEOL 419 - Medical Geology**
Medical Geology is the science surrounding the relationships among geological factors and health in humans, animals, and plants. This class focuses on the relationships between geology and human health.
Credits: 3
Prerequisites: CHEM 121A, CHEM 121L and minimum C grade in GEOL 220 or GEOL 301.

**GEOL 425 - 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.
Credits: 3
Prerequisites: [CHEM 122A and CHEM 122L] or [GEOL 330 completed with a grade of C or better].
Notes: This course is crosslisted with GEOL 625. Credit at the 600-level requires additional work.

**GEOL 429 - 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.
Credits: 3
Prerequisites: GEOL 425 and MATH 181.
Notes: This course is crosslisted with GEOL 629. Credit at the 600-level requires additional work.

**GEOL 434 - Quaternary Geology**
Survey of global paleo environments, including geologic, climatic, and biotic changes during the Quaternary. Examination of the geological record of marine and terrestrial glaciated and no glaciated environments.
Credits: 3
Prerequisites: GEOL 433.
Notes: This course is crosslisted with GEOL 634. Credit at the 600-level requires additional work.

**GEOL 436 - Quaternary Paleoeoecology**
Examination of the fossil record of the Quaternary including vertebrate, invertebrate, and floral assemblages. Emphasis on paleo environmental and paleo climatological reconstructions.
Credits: 3
Prerequisites: GEOL 333.
Notes: This course is crosslisted with GEOL 636. Credit at the 600-level requires additional work.

**GEOL 437 – Paleoclimatology**
Paleo climatic 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.
Credits: 3
Prerequisites: GEOL 333.
Notes: This course is crosslisted with GEOL 637. Credit at the 600-level requires additional work.

**GEOL 440 - Volcanology**
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.
Credits: 3
Prerequisites: GEOL 327.
Notes: This course is crosslisted with GEOL 640. Credit at the 600-level requires additional work.

**GEOL 442 - Structural Geology**
Study of structural features of the earth’s crust and their development. Laboratory work involves study and preparation of geologic maps and cross sections as well as structural analysis techniques.
Credits: 4
Corequisites: PHYS 151 or PHYS 180 and PHYS 180L.
Prerequisites: [MATH 127 or MATH 128 or higher] and a minimum grade of C in GEOL 220.

**GEOL 443 - Plate Tectonics**
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.
Credits: 3
Prerequisites: GEOL 442.
Notes: This course is crosslisted with GEOL 643. Credit at the 600-level requires additional work.

**GEOL 444 - Tectonics of Orogenic Belts**
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.
Credits: 3
Prerequisites: Minimum C grade in both GEOL 220 and GEOL 442.
Notes: This course is crosslisted with GEOL 644. Credit at the 600-level requires additional work.

**GEOL 448 - Field Geology I**
Basic tools and techniques of geologic mapping, map preparation, and report writing.
Credits: 3
Prerequisites: Minimum C grade in both GEOL 362 and GEOL 333.
Notes: Nine hours field.

**GEOL 449 - Geochronology**
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.
Credits: 3
Prerequisites: CHEM 122A and CHEM 122L or minimum C grade in GEOL 330.
Notes: This course is crosslisted with GEOL 649. Credit at the 600-level requires additional work.

**GEOL 470 - Planetary Geology**
This course introduces geologic processes throughout our solar system. We will compare geologic processes on extraterrestrial bodies to those that occur on Earth. This course is crosslisted with GEOL 670. Credit at the 600-level requires additional work.
Credits: 3
Prerequisites: Minimum grade of C in GEOL 220 or GEOL 327.

**GEOL 472 - Advanced Field Geology**
Advanced field techniques including analysis of geologically complex areas; independent and collaborative field projects, and preparation of professional maps and reports. Oral presentation of projects. Requires three-week commitment after spring semester.
Credits: 3
Corequisites: GEOL 327
Prerequisites: A minimum grade of C in both GEOL 448 and GEOL 442.

**GEOL 474 - Hydrogeology**
Factors controlling the occurrence and distribution of water resource, its quality and quantity, methods of exploration and development.
Credits: 3
Prerequisites: MATH 127, PHYS 151
Notes: This course is crosslisted with GEOL 674. Credit at the 600-level requires additional work.
GEOL 477 - Geology of Metallic Ore Deposits
Geology of metallic ore deposits, origin, occurrence, and alteration. Application of ore deposit characteristics to exploration.
Credits: 4
Prerequisites: [CHEM 121A and CHEM 121L] and a minimum grade of C in GEOL 220.
Notes: This course is crosslisted with GEOL 688. Credit at the 600-level requires additional work.

GEOL 478 - Hydrogeochemistry
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.
Credits: 3
Prerequisites: [CHEM 122A and 122L] or minimum grade of C in GEOL 330.
Notes: This course is crosslisted with GEOL 678. Credit at the 600-level requires additional work.

GEOL 485 - Engineering Geology
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.
Credits: 3
Prerequisites: GEOL 333.
Notes: This course is crosslisted with GEOL 685. Credit at the 600-level requires additional work.

GEOL 488 - Microtechniques in Geoscience
Microanalytical techniques including transmitted and reflected light petrology and petrography, micro-imaging scanning electron microscope (SEM) and electron microprobe (EMP), chemical microanalyses (EMP), fluid inclusion microthermometry, and melt inclusion petrography. Project tailored to the student's interest required.
Credits: 3
Prerequisites: GEOL 220 with a minimum grade of C.
Notes: This course is crosslisted with GEOL 688. Credit at the 600-level requires additional work.

GEOL 491 - Seminar
Weekly lecture in selected fields of geoscience; topics vary by semester. May be repeated to a maximum of three credits.
Credits: 1
Prerequisites: Consent of instructor.

GEOL 495 - Independent Study and Research
Independent study and research projects in some field of geology. Open only to upper-division students. Proposed project for study and/or research must be submitted in writing to the department chair for approval and credit evaluation prior to registration.
Credits: 1-3
Prerequisites: Upper-division student and consent of instructor.
May be repeated to a maximum of six credits.

GEOL 496 - Advanced Topics in Geoscience
Variety of advanced studies of current and/or topical interest in specialized areas of geoscience.
Credits: 1-3
Prerequisites: Varies depending upon the specific topic.
May be repeated to a maximum of six credits.

GEOL 497 - Senior Thesis
Independent original research in geoscience. Requires a written thesis and an oral exam. Proposed project of study must be submitted in writing to the department chair and undergraduate coordinator at least two weeks prior to registration.
Credits: 3-6
Mathematical Sciences

Purpose and Focus
The Department of Mathematical Sciences provides opportunities for learning and research in several fields of concentration. Mathematics provides the language and concepts in terms of which knowledge in almost all disciplines is understood and communicated, and it often provides the means and techniques for solving problems. The courses required in the department’s programs serve several purposes which include helping students along paths leading to branches of science and technology as well as to mathematical specializations. These courses are designed to provide routes by which students may arrive at the research level in any of the special areas listed and to allow students to prepare themselves for work in industry or government or in educational institutions.

Accreditation
Northwest Commission on Colleges and Universities

Degree Objectives/Learning Outcomes
Upon completion of the bachelor’s degree in mathematical sciences, students would have been trained to think analytically, would have rigorous problem-solving skills, and would have a solid background to enable them to pursue graduate studies in mathematical sciences.

Undergraduate Majors
Mathematical Sciences — Bachelor of Arts
Mathematical Sciences — Bachelor of Science
Mathematical Actuarial Sciences — Bachelor of Science

Areas of Concentrations
Actuarial Sciences

Admission to the Major
Minimum GPA: 2.50 and placement into MATH 181 - Calculus I or higher.

Admissions Policies
Students must meet minimum GPA requirements.

Students with a GPA less than 2.50, but at least 2.0, may be admitted on probationary status. Students on probation must meet with an advisor to devise a course of study that, when successfully completed, will remove the student from probationary status; the course of study must be approved by the department chair. The course of study shall consist of at least 15 units that apply toward a degree in the major; ordinarily, the course of study will be required to be completed in one calendar year (i.e., two semesters and the summer term). The advisor may request that completion time be extended by one semester for good cause (e.g., more than 15 units in the course of study, course offering schedules, etc.). Failure to satisfactorily complete the probationary course of study is grounds for suspension from the department.

Advisement
Each student must meet with an academic advisor in the college's Advising Center before first declaring their major or minor in the mathematical sciences at UNLV, and is encouraged to seek advising at least once a year thereafter. Students should meet with a faculty advisor as needed.

Degree Requirements
A grade of C or higher is required in each MATH or STAT course used to satisfy degree requirements for a major or minor in mathematical sciences. At most, six credits of independent study may be used in any undergraduate degree program in mathematical sciences. A student may not major or minor in dual areas of the mathematical sciences.

The following courses cannot count as credit for any degree program in the Department of Mathematical Sciences: STAT 491, STAT 492, MATH
431, MATH 432. Consult with the College of Sciences Advising Center for information on appropriate courses.

**Mathematics Major - Bachelor of Arts (BA)**

Please see the UNLV College of Mathematical Sciences web page at www.unlv.edu/math for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-mathematics.

Please see advising information at the UNLV Sciences Advising Website at www.unlv.edu/sciences/advising/.

**Accreditation**
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Learning Outcomes**
1. Demonstrate a solid understanding of differential, integral and multivariable calculus, and be able to apply these concepts to a variety of problems.
2. Demonstrate a solid understanding of vector calculus, linear algebra, ordinary differential equations, higher level algebra and analysis, and be able to apply these concepts to a variety of problems.
3. Be able to think analytically and critically and to formulate problems, solve them, and interpret their solutions.
4. Achieve an understanding of the nature of proof, in particular should demonstrate a good understanding of rigorous mathematical proof (reading and writing), and apply reasoning based on definitions, axioms, theorems and induction.
5. Communicate effectively in writing.
6. Have experience applying knowledge from one branch of mathematics to another and from mathematics to other disciplines.

**University Graduation Requirements**
- Please see Graduation Policies for complete information.

**Mathematical Science Degree Requirements**
- Total: 120 Credits

(see note 1 below)

**General Education Requirements**
- Subtotal: 33-36 Credits

First-Year Seminar - Credits: 2-3

(see note 2 below)

**English Composition**
- Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

**Second-Year Seminar**
- Credits: 3

**Constitutions**
- Credits: 4-6

**Mathematics**

**Distribution Requirements**
- Credits: 18

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 credits**
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.

- **Social Science: 9 credits**
  - One course each from three different fields

- **Life and Physical Sciences and Analytical Thinking:**
  - Automatically satisfied by Major requirements

Multicultural and International
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.

Major Requirements - BA in Mathematical Science - Subtotal: 51 Credits

**Computer Programming Requirements - Credits: 3**
Select one of:
- CS 117 - Programming for Scientists and Engineers
- CS 135 - Computer Science I

**Science Requirements - Credits: 9**
Select nine (9) credits, including a LAB course, from college-level BIOL, CHEM, GEOG, GEOL, PHYS, CEE, CS, CpE, EE, ME courses.
- MATH 181 - Calculus I - Fulfills Math General Education Requirement
- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I
- MATH 283 - Calculus III
- MATH 330 - Linear Algebra or
- MATH 365 - Computational Linear Algebra
- MATH 427 - Differential Equations I
- MATH 453 - Abstract Algebra I
- MATH 457 - Introduction to Real Analysis I
and 12 additional credits from 400-level MATH or STAT courses.
The program of study must include two (2) one-year 400-level MATH or STAT sequences.

Electives - Credits: 33-36
Total Credits: 120

Notes

1. Every student will be encouraged to take the GRE Advanced Test in Mathematics.
2. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.

**Mathematics Major - Bachelor of Science (BS)**

Please see the UNLV College of Sciences, Mathematical Sciences department web page at www.unlv.edu/math for information about department programs, faculty and facilities. Degree worksheets and 4/5 year plans for the major and concentration are available at www.unlv.edu/degree/bs-mathematics, www.unlv.edu/degree/bs-mathematics-actuarial-science.

Please see advising information at the UNLV College of Science Advising at www.unlv.edu/sciences/advising.

**Accreditation**
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Learning Outcomes**

1. Demonstrate a solid understanding of differential, integral and multivariable calculus, and be able to apply these concepts to a variety of problems.
2. Demonstrate a solid understanding of vector calculus, linear algebra, ordinary differential equations, higher level algebra and analysis, and be able to apply these concepts to a variety of problems.
3. Be able to think analytically and critically and to formulate problems, solve them, and interpret their solutions.
4. Achieve an understanding of the nature of proof, in particular should demonstrate a good understanding of rigorous mathematical proof (reading and writing), and apply reasoning based on definitions, axioms, theorems and induction.

5. Communicate effectively in writing.

6. Have experience applying knowledge from one branch of mathematics to another and from mathematics to other disciplines.

University Graduation Requirements

Please see Graduation Policies for complete information

Mathematics Degree Requirements - Total: 120 Credits

(see notes 1-2 below)

General Education Requirements - Subtotal: 33-36 Credits

First-Year Seminar - Credits: 2-3

(see note 3 below)

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
- Social Science: 9 Credits
  - One course each from three different fields.
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BS in Mathematics - Subtotal: 80 Credits

Computer Programming Requirements - Credits: 3

Select one of:

- CS 117 - Programming for Scientists and Engineers
- CS 135 - Computer Science I

Science Requirements - Credits: 9

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I

and select five credits from the following:

BIOL courses numbered 189 and above; CHEM courses numbered 121 and above except CHEM 201, 203; GEOL courses
numbered 220 and above; GEOG courses numbered 300 and above; PHYS courses numbered 181 and above; CEE courses numbered 241 and above; CS courses numbered 218 and above; CpE courses numbered 300 and above; EE courses numbered 220 and above; ME courses numbered 242 and above.

Required Department Courses - Credits: 39

- MATH 181 - Calculus I - fulfills Mathematics General Education Requirement
- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I
- MATH 283 - Calculus III
- MATH 330 - Linear Algebra
- or MATH 365 - Computational Linear Algebra
- MATH 427 - Differential Equations I
- MATH 453 - Abstract Algebra I
- MATH 457 - Introduction to Real Analysis I

and 12 additional credits from 400-level MATH or STAT courses.
The program of study must include two one-year 400-level MATH or STAT sequences.

Science and Engineering Electives - Credits: 29

Electives - Credits: 4-7

Total Credits: 120

Notes

1. Of the 120 credits required for graduation, 80 or more must be in courses offered by the College of Sciences and the College of Engineering.
2. Every student will be encouraged to take the GRE Advanced Test in Mathematics
3. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.

BS in Mathematics, Concentration in Actuarial Science - Subtotal: 63 credits

Learning Outcomes

Our students that graduate with a B.S. in Mathematics, Actuarial Science Concentration, will...

Demonstrate a solid understanding of differential, integral and multivariable calculus, and be able to apply these concepts to a variety of problems.

Demonstrate a solid understanding of vector calculus, linear algebra, and ordinary differential equations, and be able to apply these concepts to a variety of problems.

Be able to think analytically and critically and to formulate problems, solve them, and interpret their solutions.

Prepare for and complete the two exams offered by the Society of Actuaries (1-Financial Mathematics, and 2-Probability and Statistics).

Communicate effectively in writing.

Have experience applying knowledge from one branch of mathematics to another and from mathematics to other disciplines.

Computer Programming Requirements - Credits: 3

Select one of:
- CS 117 - Programming for Scientists and Engineers
- or
- CS 135 - Computer Science I

Science Requirements - Credits: 9

Select nine (9) credits, including a LAB course, from BIOL courses numbered 189 and above; CHEM courses numbered 121 and above except CHEM 201, 203; GEOL courses numbered 220 and above; GEOG courses numbered 300 and above; PHYS courses numbered 180 and above; CEE courses numbered 300 and above;
CS courses numbered 218 and above; all CpE courses; EE courses numbered 220 and above; all ME courses.

**Required Department Courses - Credits: 42**
- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III
- MATH 320 - Mathematics of Interest
- MATH 330 - Linear Algebra
  or
- MATH 365 - Computational Linear Algebra
- MATH 463 - Advanced Matrix Theory and Applications
  or
- MATH 466 - Numerical Methods I
- MATH 427 - Differential Equations I
- MATH 471 - Actuarial Mathematics I
- MATH 473 - Risk Theory
  or
- STAT 488 - Senior Research Project in Statistics

**Economics and Finance Requirements**
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- FIN 321 - Corporate Risk Management

**Sciences and Engineering Electives - Credits: 6**

**General Electives - Credits: 15-18**

**Total Credits: 120**

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**Actuarial Science Minor**

A minor in the Department of Mathematical Sciences includes at least 20 credits as follows:

**Required Courses**

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Science.

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 320 - Mathematics of Interest
- MATH 330 - Linear Algebra
  or
- MATH 365 - Computational Linear Algebra
- MATH 471 - Actuarial Mathematics I
- MATH 473 - Risk Theory

**Mathematics Minor**

A minor in the Department of Mathematical Sciences includes at least 20 credits as follows:

**Required Courses**

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Science.

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I
  or
- MATH 283 - Calculus III
- MATH 330 - Linear Algebra
  or
- MATH 365 - Computational Linear Algebra

- 9 additional upper division credits in MATH or STAT
Notes

1. No course in which a grade of C- or lower is earned may be applied to any minor in the College of Science.

2. STAT 491 and STAT 492 cannot count as credit for a 400 level requirement in the Department of Mathematical Science.

Statistics Minor

A minor in the Department of Mathematical Sciences includes at least 20 credits as follows:

Required Courses

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Science.

- MATH 181 - Calculus I
- MATH 182 - Calculus II

- MATH 330 - Linear Algebra
  or
- MATH 365 - Computational Linear Algebra

- STAT 391 - Applied Statistics for Biological Sciences
  or
- STAT 411 - Statistical Methods I
  or
- STAT 463 - Applied Statistics for Engineers
  or
- STAT 491 - Statistics for Scientists I

- STAT 413 - Statistical Experimental Design
- STAT 493 - Applied Regression Analysis

Mathematics

MATH 095A - Elementary Algebra
Elementary algebraic topics for students whose mathematical background or placement score indicates that preparation for Intermediate Algebra is desirable. While credit for this course does not count toward the total needed for graduation or factor into the UNLV GPA, successful completion does affect most types of financial aid and scholarships.

Prerequisites: A score of <20 on the ACT, or a score of <470 on the SAT, or an appropriate score on an approved Mathematics Placement Assessment.

MATH 95 - Elementary Algebra
Exploration of mathematics topics for students whose content background, ACT/SAT and/or placement score indicates that additional preparation for Math 120 is desirable. Credit for this course does not count toward the total needed for graduation.

Credits: 3

Prerequisites: ACT Math Score <22; SAT Math Score <500; SAT MSS Score <530; or a satisfactory score on an approved Mathematics Placement Assessment. Completion of Math 95 is NOT a required prerequisite for students whose chosen major requires Math 124/126.

MATH 096A - Intermediate Algebra
Polynomial and rational expressions, linear equations, linear and absolute value inequalities, applications, exponents and radicals, quadratic equations, relations, and their graphs, systems of equations. Credit for this course does not count toward the total needed for graduation.

Credits: 3

Prerequisites: A minimum score of 20 on the ACT, or a minimum score of 470 on the SAT, or a satisfactory score on an approved Mathematics Placement Assessment, or C or better in Math 095A.
MATH 96 - Intermediate Algebra
Exploration of mathematics topics for students whose content background, ACT/SAT and/or placement score indicates that additional preparation for Math 124 or Math 126 is desirable. Topics include polynomial and rational expressions, linear equations, linear inequalities, exponents and radicals, quadratic equations, relations and their graphs, and systems of equations. Credit for this course does not count toward the total needed for graduation.
Credits: 3
Prerequisites: ACT Math Score <22; SAT Math Score <500; SAT MSS Score <530; or a satisfactory score on an approved Mathematics Placement Assessment. Completion of Math 95 is NOT a required prerequisite for Math 96.

MATH 115 - Humane Mathematics
Study of some elementary and elegant examples displaying mathematics as a medium for artistic expression and aesthetic appreciation. Intended for students with limited mathematical background, but not preparation for college algebra or the precalculus mathematics sequence. Does not satisfy the general education core mathematics requirement.
Credits: 3
Prerequisites: One year of high school algebra and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test).

MATH 120 - Fundamentals of College Mathematics
Real numbers; consumer mathematics; variation; functions, relations, and graphs; geometry of measurement; probability and statistics; sets and logic. Broad in scope course, emphasizes applications.
Credits: 3
Prerequisites: Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or MATH 95 with a grade of C or better or equivalent.

MATH 121 - Mathematical Topics and Applications Provided in a Real World Context
Introduction to mathematical concepts such as: logic and analytic thinking, related rates, functions and relations, graphs and representations, properties of numbers, set theory, and consumer mathematics. Students will be exposed to topics within the context of practical applications. Technology will be incorporated.
Credits: 3
Prerequisites: Approval of Department Chair.
Notes: S/F grading only.

MATH 122 - Number Concepts for Elementary School Teachers
Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasis on number concepts. MATH 122 does not satisfy the general education core mathematics requirement.
Credits: 3
Prerequisites: Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or MATH 96 or equivalent.

MATH 123 - Statistical and Geometrical Concepts for Elementary School Teachers
Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasizing concepts in statistics and geometry.
Credits: 3
Prerequisites: C or better in MATH 122.

MATH 124 - College Algebra
Equations and inequalities; relations and functions; linear, quadratic, polynomial, exponential, and logarithm functions; systems of linear equations and inequalities; matrices; sequences and series; binomial theorem.
Credits: 3
Prerequisites: 3 years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT or Math Placement Test) or MATH 96 or equivalent.
Notes: Duplicate credits cannot be earned for MATH 124 and MATH 126 or MATH 128.

MATH 126 - Precalculus I
Topics include fundamentals of algebra, functions and graphs, polynomial, rational, exponential, and logarithmic functions, and systems of linear equations.
Credits: 3
Prerequisites: Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or a minimum grade of C in MATH 96 or MATH 124.
Notes: Duplicate credits cannot be earned for MATH 126 and MATH 124 or MATH 128.

MATH 127 - Precalculus II
Topics include circular functions, trigonometric identities and equations, conic sections, complex numbers, and discrete algebra.
Credits: 3
Prerequisites: Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or C or better in MATH 126 or equivalent. The ALEKS score requires TRIG Sub score of 41% or higher, with an ALEKS score of 61-75%. To enroll using the ALEKS score, please see your academic advising center to obtain consent.
Notes: Duplicate credits cannot be earned for MATH 127 and MATH 128.

MATH 128 - Precalculus and Trigonometry
Relations, functions, and their graphs; polynomial, rational, exponential, logarithm, and trigonometric functions; analytic trigonometry; systems of equations and inequalities; conics; mathematical induction; sequences and series. A combination of MATH 126 and MATH 127.
Credits: 5
Prerequisites: Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test). The ALEKS score requires TRIG Sub score of 41% or higher, with an ALEKS score of 61-75%. To enroll using the ALEKS score, please see your academic advising center to obtain consent.
Notes: Duplicate credits cannot be earned for MATH 128 and any of the following: MATH 124, MATH 126, MATH 127.

MATH 132 - Finite Mathematics
Logic, sets, probability, matrices, and linear programming, and their application to the analysis of business and social science problems.
Credits: 3
Prerequisites: Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or MATH 124 or MATH 126 or equivalent.

MATH 170 - Mathematics of Finance
Mathematical study of interest, annuities, sinking funds, depreciation, amortization, and other topics related to business problems.
Credits: 3
Prerequisites: C or better in MATH 124 or equivalent.

MATH 176 - Introductory Calculus for Business and Social Sciences
Techniques of calculus, with applications to the analysis of business and social science problems. Topics include functions of one and several variables, differentiation and partial differentiation, integration, and optimization.
Credits: 3
Prerequisites: C or better in either MATH 124 or MATH 126 or equivalent.
Notes: Duplicate credits cannot be earned for MATH 176 and MATH 181.
MATH 181 - Calculus I
Differentiation and integration of algebraic and transcendental functions, with applications.
Credits: 4
Prerequisites: Four years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or MATH 128 or equivalent.
Notes: Duplicate credits cannot be earned for MATH 176 and MATH 181.

MATH 182 - Calculus II
Further applications and techniques of integration including integration by parts, sequences and series, polynomial approximations.
Credits: 4
Prerequisites: C or better in MATH 181.

MATH 213 - Introduction to Problem Solving Techniques
Analyzing and solving standard and non-standard problems using a variety of different problem-solving techniques, tools, and technology. Emphasizes different approaches to solving problems and complete oral and/or written explanations of how to solve the problems.
Credits: 3
Prerequisites: C or better in MATH 122 or equivalent.

MATH 214 - Geometry for Middle School Teachers
Study of one- two- and three-dimensional geometry, including figures, properties, and transformations, using classical and analytical methods. Emphasis on developing an appreciation for the widespread use of geometry and using geometry to solve problems.
Credits: 3
Prerequisites: C or better in MATH 123 or equivalent.

MATH 251 - Discrete Mathematics I
Topics include set operations, Cartesian product, relations and functions, equivalence relation, graphs and digraphs, propositional calculus, truth tables, mathematical induction, elementary combinatorics with applications.
Credits: 3
Corequisites: MATH 182

MATH 271 - Elementary Probability
Review of sets, counting, finite and countable probability spaces, random variables and distribution functions, statistical quantities, limit theorems, applications.
Credits: 3
Prerequisites: C or better in MATH 182.

MATH 283 - Calculus III
Vectors; differentiation and integration of vector valued functions; multivariable calculus; partial derivatives; multiple integrals and applications; line, surface and volume integrals; Green's theorem; divergence theorem; and Stoke's theorem.
Credits: 4
Prerequisites: C or better in MATH 182.

MATH 303 - Introduction to Proofs in Metric Spaces and Analysis
Proofs are presented in context of the following topics at the introductory level: logic, set theory, topology of metric spaces, sequences and functions, limits and continuity.
Credits: 3
Prerequisites: Minimum grade of C in both MATH 182 and MATH 251.

MATH 313 - Probability and Combinatorics for Teachers
Topics include sets, functions, relations, propositional logic, induction, elementary combinatorics, and elementary graph theory.
Credits: 3
Prerequisites: C or better in MATH 182 or C or better in both MATH 181 and MATH 213.
MATH 314 - History of Mathematics
Evolution of mathematics from ancient numeral systems to twentieth-century mathematics. Effects of culture on mathematics and impact of mathematics on cultures also considered.
Credits: 3
Prerequisites: C or better in MATH 182.

MATH 320 - Mathematics of Interest
Introduction to the mathematical theory underlying the measurement of interest, accumulated and present values, annuities, amortization, sinking funds, bonds, and securities.
Credits: 3
Prerequisites: C or better in MATH 283, or MATH 330, or MATH 365, or both MATH 182 and MATH 251.

MATH 330 - Linear Algebra
Introduction to linear algebra, including matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors.
Credits: 3
Prerequisites: C or better in MATH 182.
Notes: Duplicate credits cannot be earned for MATH 330 and MATH 365.

MATH 351 - Discrete Mathematics II
Infinite sets, Cantor's diagonal argument, first order logic, formal and informal proofs, combinatorics, Boolean algebra, lattices, and graphs.
Credits: 3
Prerequisites: C or better in MATH 251.

MATH 360 - Introduction to Biomathematics I
Introduction to the interdisciplinary field of biomathematics; mathematical models of biological systems; applied numerical methods and computer software for solving mathematical models.
Credits: 3
Prerequisites: BIOL 197, and C or better in MATH 181.

MATH 361 - Introduction to Biomathematics II
A continuation to the study of biomathematics; part two will consider more advanced mathematical models of biological processes associated with advection, diffusion and pattern formation; computational methods for solving partial differential equations.
Credits: 3
Prerequisites: C or better in either BIOL 360 or MATH 360.
Notes: Duplicate credits cannot be earned for BIOL 361 and BIOL 361.

MATH 365 - Computational Linear Algebra
Matrices, linear systems of equations, linear programming, least-squares approximations, determinants, eigenvalues and eigenvectors, matrix inversion, elimination, iteration and other algorithms, precision and error analysis, of computational cost of algorithms. Emphasizes the practical methods using computer algorithms.
Credits: 3
Prerequisites: C or better in either MATH 182; CS 117 or CS 135.
Notes: Duplicate credits cannot be earned for MATH 330 and MATH 365.

MATH 415 - Graph Theory
This course examines basic concepts and applications of graph theory. Topics include subgraphs, connectivity, trees, cycles, vertex and edge coloring, planar graphs and their colorings, Eulerian graphs, Hamiltonian graphs, matching and factorization, and the applications of graphs as models. Emphasis will be on proofs and proof techniques.
Credits: 3
Prerequisites: C or better in MATH 251 and MATH 330 or consent of instructor.
MATH 427 - Differential Equations I
Theory and solution techniques for solving ordinary differential equations with constant and variable coefficients, systems of linear differential equations, Laplace transform, difference equations and numerical methods. Fourier Series; stability theory and autonomous systems.
Credits: 3
Prerequisites: C or better in MATH 283 , and C or better in either MATH 330 or MATH 365.
Notes: Duplicate credits cannot be earned in any two of MATH 427 and MATH 431.

MATH 428 - Differential Equations II
Theory and solution techniques for solving ordinary differential equations with constant and variable coefficients, systems of linear differential equations, Laplace transform, difference equations and numerical methods. Fourier Series; stability theory and autonomous systems.
Credits: 3
Prerequisites: C or better in MATH 427.

MATH 431 - Mathematics for Engineers and Scientists I
First order linear and non-linear differential equations, second and higher order differential equations with constant coefficients, Laplace transforms and applications, Gaussian elimination and eigenvalue problems, solutions of systems of differential equations.
Credits: 3
Prerequisites: C or better in MATH 283.
Notes: Duplicate credits cannot be earned in any two of MATH 427 and MATH 431. MATH 431 cannot count as credit towards a degree in the Department of Mathematical Science, or as part of a sequence.

MATH 432 - Mathematics for Engineers and Scientists II
Topics include complex functions, analytic functions, Cauchy-Riemann equations, conformal mappings, linear fractional transformations, complex integration, Cauchy's integral theorem and formula, power series, Laurent series, and calculus of residues.
Credits: 3
Prerequisites: C or better in MATH 283.
Notes: Duplicate credit cannot be earned in MATH 432 and MATH 459. MATH 432 cannot count as credit towards a degree in the Department of Mathematical Science, or as part of a sequence.

MATH 451 - Foundations of Mathematics I
Introduction to logic, set algebra and Boolean algebra, with applications to the theory of computing machines.
Credits: 3
Prerequisites: C or better in MATH 251.
Notes: This course is crosslisted with MAT 651.
Credit at the 600-level requires additional work.

MATH 452 - Foundations of Mathematics II
Formalization, proofs, and models of quantificational logic; axiomatics; application to mathematical theories, including set theory.
Credits: 3
Prerequisites: C or better in MATH 451.
Notes: This course is crosslisted with MAT 652.
Credit at the 600-level requires additional work.

MATH 453 - Abstract Algebra I
Sets, functions, groups, quotient groups, homomorphism theorems, Abelian groups, rings, polynomial rings, division rings, Euclidean domains, fields and vector spaces.
Credits: 3
Prerequisites: C or better in MATH 251 and C or better in either MATH 330 or MATH 365.
Notes: This course is crosslisted with MAT 653.
Credit at the 600-level requires additional work.

MATH 454 - Abstract Algebra II
Sets, functions, groups, quotient groups, homomorphism theorems, Abelian groups, rings, polynomial rings, division rings, Euclidean domains, fields and vector spaces.
Credits: 3
Prerequisites: C or better in MATH 453.
Notes: This course is crosslisted with MAT 654. Credit at the 600-level requires additional work.

**MATH 455 - Elementary Theory of Numbers I**
Topics include divisibility, arithmetic functions, congruence’s, quadratic residues, primitive roots, Diophantine equations, continued fractions, algebraic numbers, and partitions.
Credits: 3
Prerequisites: C or better in MATH 251 and C or better in either MATH 330 or MATH 365.
Notes: This course is crosslisted with MAT 655. Credit at the 600-level requires additional work.

**MATH 456 - Elementary Theory of Numbers II**
Topics include divisibility, arithmetic functions, congruence’s, quadratic residues, primitive roots, Diophantine equations, continued fractions, algebraic numbers, and partitions.
Credits: 3
Prerequisites: C or better in MATH 455.
Notes: This course is crosslisted with MAT 656. Credit at the 600-level requires additional work.

**MATH 457 - Introduction to Real Analysis I**
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.
Credits: 3
Prerequisites: C or better in both MATH 251 and MATH 283 and C or better in either MATH 330 or MATH 365.
Notes: This course is crosslisted with MAT 657. Credit at the 600-level requires additional work.

**MATH 458 - Introduction to Real Analysis II**
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.
Credits: 3
Prerequisites: C or better in MATH 457.

Notes: This course is crosslisted with MAT 658. Credit at the 600-level requires additional work.

**MATH 459 - Elementary Complex Analysis**
Complex numbers, analytic functions, contour integration, conformal mapping, applications.
Credits: 3
Prerequisites: C or better in both MATH 251 and MATH 283.
Notes: Duplicate credit cannot be earned in MATH 459 and MATH 432.

**MATH 461 - Probability Theory**
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.
Credits: 3
Prerequisites: C or better in both MATH 271 and MATH 283.
Notes: This course is crosslisted with MAT 661. Credit at the 600-level requires additional work.

**MATH 462 - Stochastic Processes**
Markov chains and jump processes, elements of queuing theory, stationary stochastic processes, the Wiener process and stochastic differential equations.
Credits: 3
Prerequisites: C or better in MATH 461.

**MATH 463 - Advanced Matrix Theory and Applications**
Credits: 3
Prerequisites: C or better in either MATH 330 or MATH 365.
Notes: This course is crosslisted with MAT 663. Credit at the 600-level requires additional work.

**MATH 466 - Numerical Methods I**
Introduction to numerical mathematics and scientific computing. Topics including 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.
Credits: 3
Prerequisites: C or better in CS 202 or equivalent and C or better in either MATH 330 or MATH 365.
Notes: This course is crosslisted with MAT 665. Credit at the 600-level requires additional work.

**MATH 467 - Numerical Methods II**
Intermediate treatment of methods in computational linear algebra, numerical solutions of ordinary and partial differential equations, algorithmic design and analysis, and topics selected by the instructor.
Credits: 3
Prerequisites: C or better in MATH 466 and C or better in either MATH 427 or MATH 431.
Notes: This course is crosslisted with MAT 666. Credit at the 600-level requires additional work.

**MATH 468 - Applied Finite Element Analysis**
Introduction to finite element method with computer applications to engineering continuum problems such as thermodynamics, solid/liquid mechanics. Topics include variational formulation of boundary value problems, natural and essential boundary conditions, discretization of domain based on rectangular, triangular, tetrahedral and other elements, with linear, quadratic and higher order polynomial approximations.
Credits: 3
Prerequisites: C or better in MATH 427 or MATH 431.
Notes: This course is crosslisted with MAT 668. Credit at the 600-level requires additional work.

**MATH 469 - Combinatorics I**
Graph models, covering circuits, graph colorings, trees and searching, general counting methods for arrangements and selections, generating functions, recurrence relations, and inclusion-exclusion.
Credits: 3
Prerequisites: C or better in MATH 251 or equivalent.
Notes: This course is crosslisted with MAT 669. Credit at the 600-level requires additional work.

**MATH 470 - Combinatorics II**
Advanced topics in combinatorics. Topics to be selected by the instructor.
Credits: 3
Prerequisites: C or better in MATH 469.
Notes: This course is crosslisted with MAT 670. Credit at the 600-level requires additional work.

**MATH 471 - Actuarial Mathematics I**
Rigorous mathematical treatment of the following topics: survival distributions, life tables, life insurance, life annuities, net premiums, reserves.
Credits: 3
Prerequisites: C or better in both MATH 320 and STAT 411 or equivalent.

**MATH 472 - Actuarial Mathematics II**
Rigorous mathematical treatment of the following topics: multiple life functions, multiple decrement models, valuation theory for pension plans, insurance models, nonforfeiture benefits, dividends.
Credits: 3
Prerequisites: C or better in MATH 471.

**MATH 473 - Risk Theory**
Rigorous mathematical treatment of the following topics: insurance, individual risk models for short term, collective risk models, applications of risk theory.
Credits: 3
Prerequisites: C or better in STAT 411.
MATH 480 - College Geometry
Study of advanced geometrical topics using the methods of proof of elementary geometry.
Credits: 3
Prerequisites: C or better in MATH 181.
Notes: This course is crosslisted with MAT 680. Credit at the 600-level requires additional work.

MATH 483 - General Topology I
Topological spaces, nets and filters, compactness, continuous functions, product and quotient spaces, introduction to algebraic topology.
Credits: 3
Prerequisites: C or better in MATH 251 and C or better in either MATH 330 or MATH 365.
Notes: This course is crosslisted with MAT 683. Credit at the 600-level requires additional work.

MATH 484 - General Topology II
Topological spaces, nets and filters, compactness, continuous functions, product and quotient spaces, introduction to algebraic topology.
Credits: 3
Prerequisites: C or better in MATH 483.
Notes: This course is crosslisted with MAT 684. Credit at the 600-level requires additional work.

MATH 488 - 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.
Credits: 3
Prerequisites: C or better in either MATH 427 or MATH 431.

MATH 489 - Advanced Mathematical Topics
Undergraduate-level course in advanced topics of mathematics, depending upon the interest of faculty and students.
Credits: 3
Prerequisites: C or better in MATH 283.

Notes: This course is crosslisted with MAT 689. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

MATH 491 - Problem Solving Workshop
Intended for undergraduate students who enjoy solving mathematical olympiad style problems. Typically, such problems are rather challenging and require considerable mathematical ingenuity, but only a modest background. The main objective of the course is to hone student's problem solving skills and to prepare them for mathematical contests. Students in the course are expected to participate in the local and national mathematical competitions.
Credits: 1-3
Prerequisites: C or better in MATH 251 and consent of instructor.
Notes: S/F grading only. May be repeated to a maximum of six credits.

MATH 499 - Independent Study
Library research and reports on topics of mathematical interest.
Credits: 1-3
Prerequisites: C or better in MATH 283.
May be repeated for credit with consent of Mathematical Sciences Department. Except under special circumstances, total credits limited to six.

STAT 152 - Introduction to Statistics
Basic statistical methods with emphasis on application, descriptive statistics, graphical presentation, point and interval estimation, hypothesis testing, regression, experimental design.
Credits: 3
Prerequisites: C or better in MATH 126 or equivalent.
STAT 391 - Applied Statistics for Biological Sciences
Elements of probability, types of biological data, sampling, graphical display of data, commonly used distributions, sampling distributions, point estimations, interval estimation, testing of hypothesis, nonparametric tests, categorical data analysis, introduction to regression and design of experiments.
Credits: 3
Prerequisites: C or better in MATH 127 or equivalent.

STAT 411 - Statistical Methods I
Collection and representation of information; elements of probability; Bernoulli trials, hypergeometric, binomial, Poisson and normal distributions; statistical sampling, estimation; testing hypotheses; parametric procedures for one-sample and two-sample problems.
Credits: 3
Prerequisites: C or better in MATH 182.
Notes: Duplicate credits cannot be earned for STAT 411 and 491.

STAT 412 - Statistical Methods II
Regression analysis; importance and essentials of statistically designed experiments, completely randomized design, randomized block design, factorial design, statistical quality control.
Credits: 3
Prerequisites: C or better in STAT 411.

STAT 413 - Statistical Experimental Design
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; and analysis of covariance.
Credits: 3
Prerequisites: C or better in STAT 411.

STAT 463 - Applied Statistics for Engineers
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.
Credits: 3
Prerequisites: C or better in MATH 283

STAT 467 - Introduction to Mathematical Statistics I
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.
Credits: 3
Prerequisites: C or better in STAT 411 or STAT 463
Notes: This course is crosslisted with STA 667. Credit at the 600-level requires additional work.

STAT 468 - Introduction to Mathematical Statistics II
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.
Credits: 3
Prerequisites: STAT 467

STAT 469 - Environmental Statistics I: Univariate Methods
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.
Credits: 3
Prerequisites: C or better in STAT 411.
Notes: This course is crosslisted with STA 669. Credit at the 600-level requires additional work.

**STAT 488 - Senior Research Project in Statistics**
Special problem in an area of statistics for investigation and report.
Credits: 3
Prerequisites: C or better in STAT 411.

**STAT 489 - Advanced Statistics Topics**
Undergraduate course in advanced topics in statistics, depending upon the interest of faculty and students.
Credits: 3
Prerequisites: C or better in STAT 411.

Notes: This course is crosslisted with STA 669. Credit at the 600-level requires additional work.

**STAT 491 - Statistics for Scientists I**
Frequency distributions, descriptive statistics, elementary probability; Bernoulli, binomial, and normal distributions; statistical sampling, estimation, and hypothesis testing. Less mathematical treatment than STAT 411.
Credits: 3
Prerequisites: C or better in either MATH 127 or MATH 128 or equivalent.
Notes: Duplicate credits cannot be earned for STAT 411 and 491. STAT 491 cannot count as credit towards a degree in the Department of Mathematical Science. This course is cross listed with STA 691. Credit at the 600-level requires additional work.

**STAT 492 - Statistics for Scientists II**
Chi-square tests for goodness-of-fit and independence, simple and multiple linear regression, designing an experiment (analysis of variance), multiple comparisons. Less mathematical treatment than STAT 412.
Credits: 3
Prerequisites: STAT 411 or STAT 467 or STAT 491.
Notes: Stat 492 cannot count as credit towards a degree in the Department of Mathematical Sciences, or as part of a sequence. This course is cross listed with STA 692. Credit at the 600-level requires additional work.

**STAT 493 - Applied Regression Analysis**
Line fitting; multiple linear and curvilinear regression models; variable selection techniques and examination of residuals, estimation, testing, and prediction; simple, multiple, and partial correlation.
Credits: 3
Prerequisites: C or better in STAT 152 and consent of instructor or C or better in STAT 411, STAT 467 or STAT 491.

**STAT 495 - Nonparametric Statistics**
Survey of nonparametric procedures with emphasis on application; binomial, Mann-Whitney, Wilcoxon, Kruskal-Wallis, Friedman, Kolmogorov-Smirnov, and chi-square tests; measures of association; regression. Comparisons with parametric techniques.
Credits: 3
Prerequisites: C or better in STAT 152 and consent of instructor or C or better in STAT 411 or STAT 467 or STAT 491.
Notes: This course is crosslisted with STA 695. Credit at the 600-level requires additional work.

**STAT 499 - Independent Study**
Library research and reports on topics of statistical interest.
Credits: 1-3
Prerequisites: C or better in STAT 411.
May be repeated for credit with consent of the Mathematical Sciences Department. Except under special circumstances, total credits limited to six.
Physics and Astronomy

Purpose and Focus
The Bachelor of Science in Physics provides students with preparation for governmental or industrial positions or for graduate studies in physics or related areas.

Degree Objectives/Learning Outcomes
At the completion of the physics degree programs, students should have developed rigorous communication, analytical, computing, problem solving, and team-work skills.

Accreditation
Northwest Commission on Colleges and Universities.

Undergraduate Major
Physics - Bachelor of Science
Physics - Bachelor of Science, Applied Physics Concentration
Physics - Bachelor of Science, Computational Concentration

Admission to the Major
Admission Policies
Minimum GPA: 2.50

Students unable to meet the 2.50 GPA requirement with a GPA 2.0 or higher may be admitted under contract on a probationary basis. A probationary student must plan a prescribed course of study in physics in consultation with a faculty advisor assigned by the Department of Physics and Astronomy. Only after the course of study is signed by the advisor, may the Department Chair allow the student to register for courses. The student must maintain a GPA of at least 2.50 in the courses taken while on probation. Otherwise, the student will be dropped from the physics program. When the student's overall GPA rises to 2.50, the student is taken off probation.

Transfer Policies
A student transferring from another college or university who declares a major in Physics must meet university GPA requirements.

Department Policies
Academic Policies
For all majors in the programs offered by the Department of Physics and Astronomy, a grade of C or higher is required in each of the Physics Core Requirements. In addition, before enrolling in any major requirement courses, the student must have completed all course prerequisites with a grade of C or higher.

A probationary student must plan a prescribed course of study in physics in consultation with the faculty advisor assigned by the Department of Physics and Astronomy. Only after the course of study is signed by the advisor, may the Department Chair allow the student to register for courses. The student must maintain a GPA of at least 2.50 in the courses taken while on probation. Otherwise, the student will be dropped from the physics program. When the student's overall GPA rises to 2.50, the student is taken off probation. Refer to the College of Sciences section for further requirements.

Advisement
It is required that all incoming freshmen and transfer students obtain advising from the College of Sciences Advising Center and meet with the Chair of the Department of Physics and Astronomy prior to the first semester of classes. As well, those students with any questions regarding degree requirements and graduation applications should contact the Advising Center. All students majoring in Physics, will also be assigned a faculty advisor in the Department of Physics and Astronomy. Students must meet with their advisor in the Department of Physics and Astronomy at least once a semester.
Physics Major - Bachelor of Science (BS)

Please see the UNLV Department of Physics web page at www.physics.unlv.edu/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-physics.

Please see advising information at the College of Science Student Advising Center sci.advising@unlv.edu

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Understanding of classical mechanics
2. Understanding of electricity and magnetism
3. Understanding of thermodynamics
4. Understanding of modern physics and quantum mechanics
5. Ability to perform modern laboratory experiments
6. Ability to perform an independent physics research project and give a public talk on this project
7. Ability to communicate scientific subject matter
8. Understanding and ability to communicate the importance of physics to society
9. Ability to solve critical and fundamental problems in undergraduate physics
10. Ability and confidence to think independently

University Graduation Requirements
- Please see Graduation Policies for complete information

Physics Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 33-36 Credits

First Year Seminar - Credits: 2-3
(see note 1 below)

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics
- MATH 181 - Calculus I - Fulfilled by the major requirement

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Science:
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking - 9 credits
  - Automatically satisfied by Major requirements.

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.
Major Requirements - BS in Physics - Subtotal: 77 Credits

Physics Core Requirements - Credits: 48

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 411 - Modern Physics I
- PHYS 413 - Intermediate Laboratory I
- PHYS 414 - Intermediate Laboratory II
- PHYS 421 - Electricity and Magnetism I
- PHYS 422 - Electricity and Magnetism II
- PHYS 423 - Mechanics I
- PHYS 424 - Mechanics II
- PHYS 467 - Thermodynamics
- PHYS 481 - Quantum Mechanics I
- PHYS 493 - Special Problems

Six additional credits of upper-division physics courses.

Related Core Requirements - Credits: 36

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III

Sixteen additional credits of science, mathematics, computer science, or engineering courses with at least six of them in upper-division courses (300 or higher).

Electives - Credits: 0-3

Total Credits: 120
Physics Core Requirements - Credits 39

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 300 - Introduction to Physics and Scientific Computing
- PHYS 404 - Computational Techniques in Physics
- PHYS 411 - Modern Physics I
- PHYS 413 - Intermediate Laboratory I
- PHYS 421 - Electricity and Magnetism I
- PHYS 423 - Mechanics I
- PHYS 467 - Thermodynamics
- PHYS 481 - Quantum Mechanics I
- PHYS 493 - Special Problems

Related Core Requirements - Credits 38

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III
- CS 135 - Computer Science I
- CS 202 - Computer Science II
- MATH 365 - Computational Linear Algebra

Seventeen (17) additional credits of science, mathematics, computer science, or engineering courses.

Electives - Credits: 7-10

Total Credits: 120

Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. The Department of Physics and Astronomy recommends that students take PHYS 422 and PHYS 424 for the six additional credits of upper-division physics courses needed in the Physics Core Requirements.

Physics Minor

Requirements - Total Credits: 27

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 411 - Modern Physics I
- PHYS 413 - Intermediate Laboratory I

Nine additional credits (three courses) of upper-division physics course work.

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Sciences.

Astronomy

AST 100C - Topics in Astronomy: White Dwarfs, Neutron Stars, and Black Holes

Traces the history of a star’s evolution from its birth in interstellar gas and dust to its end as a placid white dwarf, fiery nova or supernova, or mysterious black hole. Emphasis upon the archetypical Crab Nebula and its rotating neutron star.

Credits: 1
Prerequisites: Consent of instructor.
Notes: Recommended for non-science majors.

AST 103 - Introductory Astronomy: The Solar System

Beginning level survey that discusses the nearby objects of our solar system, the formation and evolution of planetary bodies and the exploration
of space. A minimum of mathematics is required.
Credits: 3
Notes: Recommended for non-science majors.

**AST 104 - Introductory Astronomy: Stars and Galaxies**
Survey course at the beginning level which discusses stellar systems and galaxies. Topics include stellar evolution, formation of galaxies, and cosmology. A minimum of mathematics is required.
Credits: 3
Notes: Recommended for non-science majors.

**AST 105 - Introductory Astronomy Laboratory**
Laboratory exercises in astronomy presented in the tradition of the amateur astronomer. Instruction includes observation of celestial objects as well as laboratory exercises to investigate the physical nature of astronomical objects. Instruction on the use of telescopes and the process of the scientific method presented.
Credits: 1
Prerequisites: AST 103 or AST 104, or concurrent registration in one of these courses.
Notes: Recommended for non-science majors.

**AST 190 - Projects in Observational Astronomy**
Project-oriented course to develop skills in observational astronomy. The material and experience gained quite helpful to those people interested in education or in astronomy. The use of high quality equipment such as cameras, photometers, telescopes, and heliostats emphasized.
Credits: 3
Prerequisites: AST 105.
Notes: Laboratory course recommended for non-science majors.

**AST 301 - Introduction to Astrophysics**
Introduction to modern astrophysics. Discussion of matter and electromagnetic radiation, the physical processes in stars, galaxies, active galactic nuclei, and the large-scale structure of the Universe. Emphasis on applying physical principles and problem-solving techniques to astronomical situations.
Credits: 3
Prerequisites: PHYS 180.

**AST 470 - Special Topics in Astrophysics**
Advanced astrophysics. Material alternates among three topics: solar system astrophysics, stellar structure and evolution, and galactic dynamics. Emphasis on current areas of interest.
Credits: 3
Prerequisites: PHYS 180, PHYS 181, PHYS 182, and PHYS 411.

**Physics**

**PHYS 108 - Physics for A Better Environment**
This is a survey course on energy issues, including the challenges facing us today. Simple physics will be introduced to analyze production and consumption of energy and their impact on the environment. The level is set for beginning students in any field.
Credits: 3

**PHYS 108L - Physics for a Better Environment Laboratory**
Laboratory exercises on energy issues, including the challenges facing us today. Simple physics experiments will be used to analyze the work-energy relationship, energy conservation, and environment related energy problems.
Credits: 1
Prerequisites: PHYS 108, or concurrent registration in PHYS 108.

**PHYS 109 - The Physics of Climate Change**
This is a survey course on climate change. Simple physics will be introduced to analyze the absorption and emission of light by the atmosphere and the effect of various gases on these processes. The level is set for beginning students in any field.
Credits: 3
PHYS 115 - Physics for Future Presidents
Physics that underlies modern society is physics that every budding leader should know. Topics include energy and electricity, weather and weapons, climate and quantum mechanics, information and data, and light and space. Recommended for non-science majors.
Credits: 3
Prerequisites: Enrollment in MATH 96 or placement in MATH 124 or higher.

PHYS 120 - Introduction to Einstein’s Spacetime
Algebra-based exploration of Einstein’s theory of Special Relativity covering time dilation, length contraction, the addition of velocities, the Lorenz transformation, the Twin Paradox, Minkowski space-time diagrams, and other topics time permitting. Beauty and consistency of Special Relativity emphasized.
Credits: 3

PHYS 151 - General Physics I
General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics.
Credits: 4
Prerequisites: Minimum grade of C MATH 128 or equivalent, or placement test.
Note: PHYS 151/PHYS 151L is prerequisite for PHYS 152 / PHYS 152L.

PHYS 151L - General Physics I
General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics.
Credits: 0
Prerequisites: MATH 128 or equivalent, or placement test. PHYS 151 / PHYS 151L is prerequisite for PHYS 152 / PHYS 152L.

PHYS 152 - General Physics II
General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics.
Credits: 4
Prerequisites: Minimum grade of C in PHYS 151 and [MATH 127 or MATH 128 or MATH 181 or MATH 182].

PHYS 152L - General Physics II
General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics.
Credits: 0
Prerequisites: MATH 128 or equivalent, or placement test. PHYS 151 / PHYS 151L is prerequisite for PHYS 152 /152L.

PHYS 180 - Physics for Scientists and Engineers I
Lecture in Newtonian mechanics. Rectilinear motion, particle dynamics, work and energy, momentum and collisions, rotational mechanics, oscillations, wave motion, and gravitation.
Credits: 3
Corequisites: PHYS 180L
Prerequisites: MATH 181

PHYS 180L - Physics for Scientists and Engineers Lab I
Laboratory exercises in Newtonian mechanics. Rectilinear motion, particle dynamics, work and energy, momentum and collisions, rotational mechanics, oscillations, wave motion, and gravitation.
Credits: 1
Corequisites: PHYS 180.
PHYS 181 - Physics for Scientists and Engineers II
Lecture in electromagnetism. Coulomb’s law, electric and magnetic fields, Gauss’ law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell's equations, and electromagnetic waves.
Credits: 3
Prerequisites: PHYS 180 and MATH 182 or HON 182.

PHYS 181L - Physics for Scientists and Engineers Lab II
Laboratory exercises in electromagnetism, Coulomb’s law, electric and magnetic fields, Gauss’ law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell's equations, and electromagnetic waves.
Credits: 1
Corequisites: PHYS 181.

PHYS 182 - Physics for Scientists and Engineers III
Lecture in fluid mechanics, thermodynamics, and optics. Sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction to modern developments.
Credits: 3
Prerequisites: PHYS 180 and MATH 182.

PHYS 182L - Physics for Scientists and Engineers Lab III
Laboratory exercises in fluid mechanics, thermodynamics, and optics. Sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction to modern developments.
Credits: 1
Corequisites: PHYS 182.

PHYS 191 - Directed Study
Individual projects under the direction of a faculty member.
Credits: 1-3
Prerequisites: Three credits of physics.
Notes: Department approval must be obtained prior to registration.

PHYS 250 - Special Relativity
In-depth introduction to the space time of special relativity with emphasis on coherence brought about by the union of three-dimensional Euclidean space time to form a four-dimensional space.
Credits: 3
Prerequisites: PHYS 180 or consent of instructor.

PHYS 300 - Introduction to Physics and Scientific Computing
Basic concepts and methods in solving scientific problems in physics and other disciplines computationally. Emphasis on problems not commonly solvable by analytical means. Hands-on experience with real-life problems in physics and scientific computing.
Credits: 3
Prerequisites: PHYS 152, PHYS 152L or PHYS 180, PHYS 180L.

PHYS 350 - Introduction to General Relativity
Physics in and around black holes is used as a vehicle for learning about the implications of general relativity.
Credits: 3
Prerequisites: PHYS 250 or consent of instructor.

PHYS 404 - Computational Techniques in Physics
Application of numerical methods to simulation of physical systems, including topics in classical mechanics, electrostatics, quantum mechanics, scattering, nonlinear dynamics and chaos.
Credits: 3
Prerequisites: PHYS 181, PHYS 182 and experience with high-level programming language.
Notes: This course is crosslisted with PHYS 604. Credit at the 600-level requires additional work.
PHYS 411 - Modern Physics I
Those aspects of quantum and statistical mechanics and relativity necessary to describe the changes in the physicist's world view wrought by revolutionary theories early in the last century.
Credits: 3
Prerequisites: PHYS 181, PHYS 181L, PHYS 182, PHYS 182L.

PHYS 412 - Modern Physics II
Continuation of the survey of twentieth-century developments in physics. Topics include simple molecular quantum mechanics, quantum statistics, solids, superfluids and superconductors, nuclear processes and models, and elementary particle physics.
Credits: 3
Prerequisites: PHYS 411.

PHYS 413 - Intermediate Laboratory I
Experimental investigation of a variety of phenomena involving the properties of electrons and their interactions with fields and matter, including selected quantum and wave mechanical effects. Experiments designed to reinforce theory learned in previous courses and to develop laboratory techniques.
Credits: 3
Corequisites: PHYS 411.

PHYS 414 - Intermediate Laboratory II
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.
Credits: 3
Prerequisites: PHYS 413.
Notes: This course is crosslisted with PHYS 614. Credit at the 600-level requires additional work.

PHYS 421 - Electricity and Magnetism I
Credits: 3
Prerequisites: PHYS 181, PHYS 421 is prerequisite for PHYS 422.

PHYS 422 - Electricity and Magnetism II
Credits: 3
Prerequisites: PHYS 181, PHYS 421 is prerequisite for PHYS 422.
Notes: This course is crosslisted with PHYS 622. Credit at the 600-level requires additional work.

PHYS 423 - Mechanics I
Credits: 3
Prerequisites: PHYS 180. PHYS 423 is prerequisite for PHYS 424.

PHYS 424 - Mechanics II
Credits: 3
Prerequisites: PHYS 180. PHYS 423 is prerequisite for PHYS 424.
Notes: This course is crosslisted with PHYS 624. Credit at the 600-level requires additional work.
PHYS 426 - Physics of Solids
Structure of crystalline solids. Mechanical, thermal, and electric properties of conducting and non-conducting solids.
Credits: 3
Prerequisites: PHYS 411.
Notes: This course is crosslisted with PHYS 626. Credit at the 600-level requires additional work.

PHYS 431 - Nuclear and Elementary Particle Physics
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.
Credits: 3
Prerequisites: PHYS 411.
Notes: This course is crosslisted with PHYS 631. Credit at the 600-level requires additional work.

PHYS 441 - Mathematical Physics
Application of selected mathematical techniques to problems in physics.
Credits: 3
Prerequisites: PHYS 181.
Notes: This course is crosslisted with PHYS 641. Credit at the 600-level requires additional work.

PHYS 442 - Mathematical Physics II
Application of selected mathematical techniques to problems in physics.
Credits: 3
Prerequisites: PHYS 181, PHYS 441.
Notes: This course is crosslisted with PHYS 642. Credit at the 600-level requires additional work.

PHYS 451 - Modern Scientific Instrumentation
Electronics for scientists, including circuit design and construction using analog and digital integrated circuits. Introduction to machining, glassblowing, and fabrication techniques.
Credits: 3
Prerequisites: PHYS 181, PHYS 181L, PHYS 182, PHYS 182L, PHYS 422.
PHYS 471 - The Physics of Climate
Introduction to climate change in the physical sciences, how physics and chemistry manifest themselves in the atmospheric environment and climate science as an application of fundamental physical principles meshed with observation.
Credits: 3
Prerequisites: Minimum grade of C- in PHYS 182.

PHYS 481 - Quantum Mechanics I
Introduction to the Schroedinger Equation and the interpretation of its solutions, the uncertainty principles, one-dimensional problems, harmonic oscillator, angular momentum, the hydrogen atom.
Credits: 3
Prerequisites: PHYS 422 and PHYS 424.
Notes: This course is crosslisted with PHYS 681. Credit at the 600-level requires additional work.

PHYS 482 - Quantum Mechanics II
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.
Credits: 3
Prerequisites: PHYS 481.
Notes: This course is crosslisted with PHYS 682. Credit at the 600-level requires additional work.

PHYS 483 - Special Topics in Physics
Special topics in physics such as, but not limited to, relativity, plasma physics, hydrodynamics, and particle physics.
Credits: 3
Prerequisites: PHYS 182.
Notes: This course is crosslisted with PHYS 683. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

PHYS 485 - Condensed Matter Physics
Credits: 3
Prerequisites: PHYS 481.
Notes: This course is crosslisted with PHYS 685. Credit at the 600-level requires additional work.

PHYS 491 - Independent Study
Independent study of a topic in physics not specifically included in the regular course offerings. Grade depends on requirements outlined in a written contract between student and instructor agreed upon prior to beginning the course.
Credits: 1-3
Prerequisites: PHYS 180, PHYS 180L, PHYS 181, PHYS 181L, PHYS 182, PHYS 182L and consent of instructor.

PHYS 493 - Special Problems
Laboratory or research work on a project that demonstrates the student's ability to apply his or her knowledge of physics. A 30-minute talk on the project required.
Credits: 1-3
Prerequisites: Nine credits of upper-division physics courses and consent of instructor.

SCI 101 - Introduction to the University for Science Majors
SCI 101 is a first year course (fulfills First Year Seminar requirement) designed to foster understanding of scientific methodology, discourse, and ethics, develop analytical and critical thinking skills, and to help students explore, discover, and connect with the university and its academic and scientific resources.
Credits: 2
Notes: Fulfills First Year Seminar requirement.

SCI 111 - A Preview of Dentistry
Introduces students to the dental profession. Presentations by professionals in various fields expose students to all available options within the profession. Information regarding preparatory coursework and timelines that ensure maximal
competitiveness during the application cycle is presented. Students may interact with admissions officials and administrators from the UNLV-SDM.
Credits: 1
Notes: S/F grading only.

SCI 150 - Modern Biology for Wildland Fire Personnel I
This course is for federal wildland fire personnel. It covers the structural and chemical nature of cells, complex organisms and cellular environments, genetics, reproduction and energetics. There is no laboratory component. This course satisfies the General Education Core requirement for science, but is not for credit toward a science degree.
Credits: 3
Prerequisites: Permission of instructor.

SCI 410L - Standardized Test Lab
Laboratory review of basic sciences for standardized tests required for application to Health Science Professional School.
Credits: 3
Prerequisites: BIOL 196, 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, CHEM 241, 242, PHYS 151, PHYS 152.
Notes: Practice examinations administered on Saturday’s.

SCI 499 - Training in Science Leadership
Seminar course designed to develop and hone leadership skills. Students acquire skills required for proctoring examinations, tutoring of undergraduate students, teaching undergraduate students, and supervising student evaluation of teaching.
Credits: 3
Prerequisites: Sophomore or higher standing, cumulative GPA of 3.00 or higher.
Notes: Students receive education regarding ethics that are essential for responsibilities.
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. Undergraduate and 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*:

**Bachelor of Arts degrees in:**
- Communication Studies
- Criminal Justice
- Journalism and Media Studies

**Bachelor of Science degree in:**
- Urban Studies

**Bachelor of Social Work degree in:**
- Social Work

**Minors in:**
- Brookings Public Policy
- Communication Studies
- Criminal Justice
- Journalism and Media Studies

*For information on graduate degrees and programs refer to the Graduate Catalog.*

Admission Policies

Students are admitted to degree programs offered by the departments and schools in the college; thus, admission requirements vary and prospective students should consult departmental/school requirements in the appropriate sections. The Greenspun College of Urban Affairs has an overall cumulative 2.00 grade point average entrance and graduation requirement. Individual departments and schools within the Greenspun College of Urban Affairs may have specific requirements for their majors.

Transfer Policies

Students should refer to the Student Advising Center for the specific articulation of transfer credit. University policies require that a candidate for the bachelor's degree must complete the last 30 semester credits in uninterrupted residence as a major in the college from which the degree is expected.

College Policies

Academic Requirements

All majors in Greenspun College of Urban Affairs are required to take Civic Engagement in Urban Communities GSC 300. This course also meets the second-year seminar general education requirement.

Probation/Suspension

Students whose cumulative GPA falls below a 2.00 will be put on university probation. Students should consult with the Student Advising Center regarding the college’s processing for the university's probation policy and for the procedure for reinstatement following university suspension.

Advisement

Upon acceptance as a major or minor, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure timely progress and completion of degree requirements students should meet with an advisor once a semester. Upon acceptance as a...
pre-major or major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs’ Student Advising Center at 702-895-1009 to set up an advising appointment.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Advising Center is located on the fourth floor of Greenspun Hall.

**Brookings Public Policy Minor**

**Purpose and Focus**
The UNLV–Brookings Curriculum offers a multidisciplinary curriculum based upon local, national and global themes. UNLV–Brookings courses unite the best teaching and scholarship of UNLV faculty and Brookings experts. This unique collaboration draws upon the diverse faculty and programmatic interests of UNLV to link knowledge, academic inquiry, and practice with the outstanding policy programs of the Brookings Institution.

The UNLV-Brookings collaboration recognizes its responsibility to present multiple perspectives and enhance critical thinking and decision making skills in a broad range of subject areas such as geography, economics, political science, public policy, international security, the environment, history, science, foreign languages, language arts, and fine and applied arts.

In an increasing diverse society, at a metropolitan university located in the heart of a global city, the UNLV-Brookings Curriculum recognizes the unique needs of today’s linguistically, ethnically, and socially diverse classrooms and is committed to creating curriculum materials that model effective ways of working with students of all backgrounds.

UNLV students are coming of age in a world of global markets where democratic forms of government emerge, struggle, and adapt amid a technological revolution that continues to alter how we think, act, and live on a daily basis. The UNLV-Brookings Curriculum addresses the challenge of effective teaching, learning, and communication in this ever-changing global environment. UNLV faculty and students, in collaboration with Brookings colleagues, will meet this challenge, and help build sustainable local, national, and global communities.

In UNLV-Brookings courses students will:
- Learn about real people in real places
- Link societies by their connections and commonalities as much as by their differences
- Integrate general issues of globalization, past and present, into the study of specific people and places in the world
- Include cross-disciplinary approaches to break down conventional academic barriers
- Emphasize experiential as well as classroom learning
- Foster research and information literacy through coordinated lectures, readings, and assignments

**Admission Policies:**
Students may declare Brookings Policy as a minor at any time subsequent to being matriculated. Students must have a minimum overall GPA of 3.00 to declare and to graduate with a minor in Brookings Policy.
Academic Policies:
A minimum overall GPA of 3.00 must be maintained in order to continue in the Brookings Policy minor.

Advisement
Upon acceptance into the minor, we recommend that students meet with an advisor from the Greenspun College of Urban Affairs Advising Center 702-895-1009. Students should meet with their advisor prior to each semester they are taking classes. The program has developed a schedule of when classes will be offered. Meeting with an advisor will ensure the student stays on track and can graduate in a timely manner.

Courses Include - Total Credits: 18

Students who complete an approved sequence of courses will obtain from UNLV a "Brookings Minor in Public Policy." Priority enrollment is open to students enrolled in the Brookings Minor. Completion of six courses is required to complete the minor. Classes are, however, open to all UNLV students.

STUDENTS MUST COMPLETE:
- URST 101 - Brookings: Introduction to Public Policy
  The introductory level (URST 101) survey course is designed to provide a general introduction to key global and national public policy issues that parallel Brookings five major programs.

STUDENTS SELECT 4 UPPER-DIVISION COURSES FROM THE FOLLOWING LIST:
- PSC 401O - U.S. Elections and Governance
- PSC 405W - New Issues in Foreign Policy
- ECON 312 - Global Economics and Development
- ECON 313 - Economics of Public Policy
- URST 442 - Brookings: Metropolitan Policy
- JOUR 484 - Mass Media and Political Communication
  These three credit "Brookings courses" are available from a rotating slate of courses approved for this program.
  Undergraduates must select four courses, and achieve a grade level of 3.0 or above for each of the courses.

STUDENT THEN MUST COMPLETE:
- CAPSTONE COURSE (3 credits)
  As a culminating project, students must also complete a three credit "capstone" course in their college. Requirements include a research paper of roughly 3,000 words, patterned on a Brookings Policy Brief. That paper is written under the supervision of a UNLV faculty member. Selected student papers may be published by the Brookings Mountain West, the Brookings Institution, and/or UNLV's Institutional Repository, Digital Scholarship@UNLV.

GSC 100 - First Year Experience Seminar
Introduces students to the academic environment, develops skills and desire for life-long learning. Students receive instruction and practical application opportunities in research methods, inquiry and critical thinking, study skills, communication across multiple platforms, citizenship, ethics, and diversity. Instruction is intended to give students a strong basis for a successful academic life.
Credits: 3
Notes: Fulfills the First Year Seminar requirement.

GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities
This course introduces students to principles of citizenship in a democratic society. It will focus on civic engagement, with emphasis on the urban environment and urban issues in a multicultural/global context. Ultimately, this course will explore societal issues and the roles citizens can play to positively impact their communities.
Credits: 3
Prerequisites: ENG 102, and one of the following: CRJ 270, COM 101, COM 102, ENV 101,
JOUR 102, CFT 225, SW 101 or URST 241.
Notes: Fulfills the Second Year Seminar requirement.

GSC 400 - Brookings: Analyzing National Governance Issues
Course covers public policy issues relevant to governance in the U.S. Topics may include demographics, economics, elections, energy, immigration, social welfare, and other domestic policy areas.
Credits: 3
Prerequisites: URST 101.
Notes: Specific course topics may vary by semester. May be repeated up to a maximum of six credits, but can only be used one time for Brookings Minor.

GSC 410 - Brookings: National Economic Studies
Course explores the development and implementation of national economic policy. Analysis of local, state, regional, and national policies and their impact on our economic and political system.
Credits: 3
Prerequisites: URST 101.
Notes: Specific course topics may vary by semester. May be repeated to a maximum of six credits, but can only be used one time for Brookings Minor.

GSC 420 - Brookings: U.S. Foreign Policy
Course covers a variety of public policy issues relating to the development and implementation of U.S. foreign policy with a special emphasis on globalization and national security.
Credits: 3
Prerequisites: URST 101.
Notes: Specific course topics may vary by semester. May be repeated to a maximum of six credits, but can only be used one time for Brookings Minor.

GSC 430 - Brookings: Global Development
Course focuses on global economic policy and development. Students study international macroeconomics, political economy, and international relations to examine today’s most pressing issues including poverty, individual freedom, and human rights.
Credits: 3
Prerequisites: URST 101.
Notes: Specific course topics may vary by semester. May be repeated to a maximum of six credits, but can only be used one time for Brookings Minor.

URST 101 - Brookings: Introduction to Public Policy
This course is an introduction to the public policy debate "inside the Beltway" of Washington, DC. The course focuses on both domestic and foreign policy issues. Topics include: economic studies, foreign affairs, governance and political analysis, and metropolitan policy.
Credits: 3

URST 410 - Environmental Policy in Urban Settings
Fundamental principles of policy and politics that shape environmental protection strategies as they pertain especially to urban situations nationally and abroad.
Credits: 3
Prerequisites: URST 241 or PUA 241.

URST 427 - Data Visualization for Urban Studies
Unveils the underlying structures of large or abstract data sets using visual methods that utilize the powerful processing capabilities of the human visual perceptual system. Focuses on the use of visual software to depict numerical data and the presentation of quantitative information clearly and effectively.
Credits: 3
Prerequisites: URST 305
Communication Studies

Purpose and Focus
The Communication Studies program promotes the growth of knowledge about communication and its uses to achieve individual, group, and societal goals. Students learn about the functions, processes, channels, and influences of communication and can specialize in interpersonal or public communication. Students in communication work to acquire proficiency in critical analysis, argumentation and presentation (oral and written), and research methods.

Undergraduate Major
Communication Studies

Areas of Concentration
Interpersonal Communication
Public Communication

Admission to the Major
Minimum GPA: 2.00

Admission Policies
Students will be assigned a Pre-Communication Major (PRE-COM) designation until they have completed the following pre-major requirements:

1. Communication core (nine credits)
   COM 101 or HON 101, COM 102, and COM 216
2. UNLV general education core courses (16 to 18 credits total): ENG101 and ENG 102, U.S. and Nevada Constitutions requirement, and six credits chosen from the remaining general education core requirements. All courses satisfying PRE-COM requirements must be completed with at least a C (2.0) grade (C- is unacceptable). PRE-COM designates may not be able to enroll in upper-division COM courses (300–400 level). Upon completion of the pre-major requirements, students may request admission to the major by contacting the GUA Advising Office.

Transfer Policies
Transfer students will be assigned a PRE-COM designation until they have completed the pre-major requirements described above and must meet with an academic advisor in the college's Student Advising Center for articulation of transfer credit.

Department Policies

Academic Policies
Students must be communication majors during the completion of the last 30 credits taken at UNLV in fulfillment of the 120-credit graduation requirement.

Communication courses may not be used to satisfy more than one requirement, with the exception of international and multicultural requirements.

Only course work in the major for which a grade of C or above (C- is not acceptable) is received will count toward satisfaction of the degree requirements. Maintenance of a minimum UNLV 2.00 GPA is required to remain in and graduate from the program.

Students must complete 42 upper-division (300–400) level credits, including 21 upper-division credits in communication.

Outside Area of Interest
Each Communication degree plan includes an outside area of interest, which consists of 15 credits in a particular area of study in a university program other than Communication Studies to be determined in consultation with the academic advisor. Courses used to complete a minor, dual major, or study abroad experience may be used to satisfy this requirement.
Change of Major
Change of status from pre-major to major requires the student to acquire a change of major form from the Student Advising Center where the form will be processed.

Internships
Practical application of classroom experience is available to junior or senior students through internships. A student is expected to (1) be a junior or senior COM major or minor, (2) have successfully completed at least 12 upper divisions credit hours (i.e., 4 courses at the 300- or 400-level), and (3) have at least a 3.00 GPA. A student may complete up to six credits of internship, but only three credits may be used to fulfill degree requirements in the major.

Advisement
Upon acceptance as a major, each student must meet with an advisor from the Greenspun College of Urban Affairs’ Student Advising Center. To ensure orderly progress toward the degree, the Communication Department strongly suggest that majors see an advisor at least once each year, preferably every semester. Upon acceptance as a pre-major or major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs’ Student Advising Center.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Advising Center can be reached at 702-895-1009 or urbanaffairs@unlv.nevada.edu or may be visited in person on the 4th Floor of Greenspun Hall.

Communication Studies Major (BA)

Communication Studies Major- Bachelor of Arts (BA)
Please see the UNLV Greenspun Department of Communications Studies web page at communicationstudies.unlv.edu for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-communication-studies.

Please see advising information at the UNLV Greenspun College of Urban Affairs Student Advising Center urbanaffairs.unlv.edu/advising

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
Upon completion of the Bachelor of Arts program, students should be able to:

- Define communication in interpersonal and rhetorical contexts.
- Analyze and evaluate messages and interaction in interpersonal and rhetorical settings.
- Identify and discuss historical developments and key theories in interpersonal and rhetorical communication.
• Recognize and explain self-reflexivity in rhetorical and interpersonal contexts.
• Read critically and analyze productively published research articles.
• Recognize and explain multiple perspectives in rhetorical and interpersonal communication theory.
• Conduct original research in interpersonal and/or rhetorical communication at a level appropriate to capstone work in an undergraduate education.
• Identify and assess features of ethical and unethical interpersonal and rhetorical communication

University Graduation Requirements
• Please see Graduation Policies for complete information

Degree Requirements - Total: 120 Credits

Recommended Courses That Meet General Education Requirements Core

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements.

Seminars

First-Year Seminar
• GSC 100 - First Year Experience Seminar

Second-Year Seminar
• GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitution

• URST 241 - Governance in the United States: An Urban Focus

Social Sciences

• CRJ 104 - Introduction to Administration of Justice

• CRJ 270 - Introduction to Criminology
• CRJ 435 - Jury Decision-Making
• CRJ 469 - Psychology and the Legal System
• CFT 150 - Personal Growth
• CFT 350 - Human Sexuality
• CFT 360 - Contemporary Marriage and Families
• SW 101 - Introduction to Social Work

Life and Physical Science

• ENV 101 - Introduction to Environmental Science
• ENV 220 - Introduction to Ecological Principles

Multicultural

• COM 412 - Intercultural Communication
• CRJ 428 - Women and Crime
• CFT 225 - Multicultural Issues and Families

International

• CRJ 407 - Law in Non-Western Societies
• CRJ 411* - Comparative Criminal Justice Systems
• JOUR 475 - Global Media
• SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

General Education Requirements - Subtotal 36-40 credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

• ENG 101 - Composition I
• ENG 102 - Composition II

Second-Year Seminar - Credits: 3

• GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions - Credits: 4-6

URST 241
Mathematics - Credits: 3
- MATH 120 or higher

Distribution Requirements - Credits: 18-19

(See Recommended Courses That Meet General Education Core Requirements)

Multicultural and International

(See Recommended Courses That Meet General Education Core Requirements)

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.

Major Degree Requirements - BA in Communication Studies - Subtotal: 36 Credits

Communication Studies Pre -Major
- Credits: 9
- COM 101 - Oral Communication or
- HON 101 - Honors Public Speaking
- COM 102 - Introduction to Interpersonal Communication or
- HON 206 - Interpersonal Communication within a Diverse Society
- COM 216 - Survey of Communication Studies

Theory Requirement - Credits: 6
- COM 400 - Human Communication Theory
- COM 409 - The Rhetorical Tradition

Methods - Credits: 3
- COM 408 - Rhetorical Criticism
- COM 435 - Quantitative Research Methods

Communication Studies Upper Division requirements - Credits: 18
Nine credits must be upper-division (300-400) level courses. May include HON seminars taught by COM faculty

Outside Area of Interest - Credits: 15

Other Electives - Credits: 29-33

Total Credits: 120

Communication Studies Minor

PRE-COM

Before being admitted to a minor in Communication Studies, students must complete the following with a minimum grade point average (in these courses) of 2.00 and no course below C.

One of the following:
- COM 101 - Oral Communication or
- HON 101 - Honors Public Speaking
- COM 102 - Introduction to Interpersonal Communication
- COM 216 - Survey of Communication Studies

Theory Requirement

One of the following:
- COM 400 - Human Communication Theory or
- COM 409 - The Rhetorical Tradition

Elective Requirement

Nine credit hours of elective courses, six of which must be upper-division (300–400 level) courses.
Elective courses may include 300–400 level HON courses taught by COM faculty.

**Communication Studies**

**COM 101 - Oral Communication**  
Theory and performance work in extemporaneous speaking and related speaking experiences. Emphasis placed on developing skills necessary for effective public speaking.  
Credits: 3

**COM 102 - Introduction to Interpersonal Communication**  
Examination of theories of effective interpersonal communication with in-class exercises designed to provide practical application of theory.  
Credits: 3  
Notes: Satisfies Social Science Requirement.

**COM 104 - Critical Thinking in Public Argument**  
A critical exploration of public argument. Students will learn to construct stronger arguments, the analytic skills to dissect and evaluate others' arguments, and speaking and writing skills necessary for effective advocacy. Emphasizes analyzing evidence and reasoning, informed citizenship, critical consumption of "information," and effective, responsible, and ethical public advocacy.  
Credits: 3  
Notes: Satisfies Analytical Thinking Requirement.

**COM 105 - Intercollegiate Debate and Forensics**  
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.  
Credits: 3  
Notes: Does not fulfill requirements for a major in Communication Studies. Freshman standing required.

**COM 106 - Intercollegiate Debate and Forensics**  
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.  
Credits: 3  
Notes: Does not fulfill requirements for a major in Communication Studies. Sophomore standing required.

**COM 116 - Critical Reasoning in Daily Life**  
Theory and practice of critical reasoning applied to a varied of everyday communication forms, including arguments, narratives, advertisements, films, protests, performances, and public spaces.  
Credits: 3

**COM 203 - Advanced Public Speaking**  
Combines classical and modern rhetorical theory with extensive practice and feedback to develop effective, ethical, and eloquent speakers able to respond to a variety of speaking situations and audiences. Focus on both extemporaneous and manuscript delivery of informed, effective, and ethical public arguments.  
Credits: 3  
Prerequisites: COM 101

**COM 205 - Intercollegiate Debate and Forensics**  
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.  
Credits: 3  
Notes: Does not fulfill requirements for a major in Communication Studies. Sophomore standing required.

**COM 206 - Intercollegiate Debate and Forensics**  
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.  
Credits: 3  
Notes: Does not fulfill requirements for a major in
Communication Studies. Sophomore standing required.

**COM 211 - Survey of Rhetorical Studies**
Survey of historical development of various rhetorical canons, concepts, and perspectives, beginning with ancient Greek and Roman discourse and concluding with contemporary rhetoric.
Credits: 3
Prerequisites: COM 216.

**COM 216 - Survey of Communication Studies**
Analysis of the contexts, principles, and values of human communication grounded in communication theory. Focuses on developing competency in the areas of intrapersonal, interpersonal, small group, organizational, and public communication.
Credits: 3
Prerequisites: COM 216

**COM 217 - Argumentation and Debate**
Study of the principles of argument analysis, critical thinking, evaluation and construction; inductive and deductive reasoning; and forms of support and fallacies of argument and language. Study of the principles of organizing and writing argumentative essays.
Credits: 3
Notes: Satisfies Analytical Thinking Requirement.

**COM 225 - Communication for Teachers**
This class utilizes communicative principles to prepare those interested in education to engage in classroom communication practices. The course establishes a foundation for the significance of instructional communication and develops the student's communication competencies and communication impact for an educational environment.
Credits: 3

**COM 302 - Issues in Interpersonal Communication**
Examination of the variables involved in interpersonal communication relationships. Provides students with opportunities to examine their own communication behavior as it affects others.
Credits: 3
Prerequisites: COM 216.

**COM 303 - Rhetoric and Ecology**
This course examines the relationship between rhetoric's and environments, asking how our linguistic practices (speeches, policies, programs) intersect with our physical landscapes (neighborhoods, cities, regions). Students will gain an understanding of the ways human symbolic habits affect the planet, and vice versa, by critically exploring our "global ecological crisis."
Credits: 3
Prerequisites: COM 216

**COM 305 - Intercollegiate Debate and Forensics**
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.
Credits: 3
Prerequisites: COM 206, junior or senior standing and consent of forensics administrator.
Notes: Does not fulfill requirements for a major in Communication Studies.

**COM 306 - Intercollegiate Debate and Forensics**
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.
Credits: 3
Prerequisites: COM 305, junior or senior standing and consent of forensics administrator.
Notes: Does not fulfill requirements for a major in Communication Studies. Junior standing required.

**COM 310 - Contemporary Rhetorical Theory**
Survey of major issues, themes, and problems in rhetorical theory over the past half century. Weekly topics range from Public Truths (morality, ideology) to Public Selves (identities, bodies, others) to Public Spaces (mediated, material, mundane) to Public Style (aesthetics, politics,
change).
Credits: 3
Prerequisites: COM 216.

**COM 312 - Nonverbal Communication**
Study of basic theory, concepts and analysis of nonverbal communication. Investigation of nonverbal cues (e.g., body language, space, eye contact, etc.) and their social functions.
Credits: 3
Prerequisites: COM 216.

**COM 314 - Health Communication**
Examination of health communication theory, perspectives, and research in a variety of contexts.
Credits: 3
Prerequisites: COM 216.

**COM 315 - Small Group Communication**
Principles of small group communication and problem solving; theory and practice. Credits: 3
Prerequisites: COM 216.

**COM 317 - Organizational Communication**
Examination of organizational communication from a general systems perspective. Emphasis on the flow of messages as they affect the structure and function of an organization.
Credits: 3
Prerequisites: COM 216.

**COM 320 - Language and Thought**
Examines principles and theories pertinent to language and meaning, rhetorical studies, general semantics, argumentation, and cognate research. Explores the utility of the principles in assessing historical and contemporary public discourse in diverse contexts.
Credits: 3
Prerequisites: COM 216

**COM 321 - Political Campaign Debates**
History and criticism of political campaign debates, with a focus on televised presidential debates 1960-Present. Topics for analysis include: political, social, and historical contexts, candidates' communication strategies and tactics, public perceptions and receptions, and media roles in campaign coverage.
Credits: 3
Prerequisites: COM 101

**COM 330 - Selected Topics in Communication Studies**
Study of a specific topic related to communication studies.
Credits: 3
Prerequisites: COM 101 or ENG 102.
May be repeated to a maximum of six credits.

**COM 400 - Human Communication Theory**
Reviews, compares, and applies contemporary behavioral theories of communication. Focus is upon interpersonal, cognitive, and influence theories as they apply to communication processes.
Credits: 3
Prerequisites: COM 216 and admission to a communication major or minor.

**COM 401 - Rhetoric of Women's Rights**
(Same as WMST 400) 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. Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 601.
Credit at the 600-level requires additional work.

**COM 403 - Public Communication**
Examination of public communication in terms of form, context, people, messages, and delivery. Particular focus on the ethics of public communication.
Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 603.
Credit at the 600-level requires additional work.
COM 404 - Principles of Persuasion
Examination of the principles involved in influencing groups and individuals. Credits: 3
Prerequisites: COM 216.
Notes: This course is crosslisted with COM 604. Credit at the 600-level requires additional work.

COM 405 - Intercollegiate Forensics
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.
Credits: 3
Prerequisites: COM 306, junior or senior standing and consent of forensics administrator.
Notes: Does not fulfill requirements for a major in Communication Studies. Senior standing required.

COM 406 - Intercollegiate Debate and Forensics
Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events.
Credits: 3
Prerequisites: COM 405, junior or senior standing and consent of forensics administrator.
Notes: Does not fulfill requirements for a major in Communication Studies.

COM 407 - Gender and Communication
Introduction to gender research in communication, studying ways in which language, interpersonal communication, the media, and various social institutions influence conceptions of gender.
Credits: 3
Prerequisites: COM 216
Same as WMST 407 Credit at the graduate-level requires additional work; this course is crosslisted with COM 607

COM 408 - Rhetorical Criticism
Investigation and analysis of public discourse. Students introduced to a variety of critical methodologies used to analyze public messages.
Credits: 3

COM 409 - The Rhetorical Tradition
Historical and critical evaluation of western rhetorical theory from the classical era to the contemporary period. Examines communication’s humanistic traditions on such issues as civic discourse, public advocacy, social interaction, message analysis, and political culture.
Credits: 3
Prerequisites: COM 216 and admission to a communication major or minor.

COM 410 - Advanced Topics in Relational Communication
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.
Credits: 3
Prerequisites: COM 102, COM 216.
Notes: This course is crosslisted with COM 610. Credit at the 600-level requires additional work.

COM 412 - Intercultural Communication
(Fulfills Multicultural Requirement), Understanding the relationship between communication and culture through the study of cultural variables (languages, traditions, rituals, roles/norms, values, etc.) and how this relationship impacts identity, behavior, expectations and knowledge.
Credits: 3
Prerequisites: COM 216.
Notes: Satisfies the Multicultural Requirement.

COM 413 - Argumentation
Study of basic principles of argumentation, the preparation and presentation of argumentative speeches.
COM 414 - Famous Speeches
Study of the role of public address in U.S. history. Emphasis on speeches and speakers that played a significant role in U.S. history. Focus of course will rotate at the discretion of instructor. Examples of possible topics include African American public address, point-counterpoint speeches, presidential address, and others. This course is crosslisted with COM 614. Credit at the 600-level requires additional work.

Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 613. Credit at the 600-level requires additional work.

COM 415 - Communication in Marital and Family Relationships
Introduces 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.

Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 614. Credit at the 600-level requires additional work.

COM 418 - The Rhetoric of Science
This course explores science as a way of knowing (epistemology) and the relationship between language, symbols, and physical reality. Students will gain an understanding of modern and historical scientific controversies, learn about perspectives on the relationship between science and rhetoric over time, and practice producing rhetorically-grounded science communication.

Credits: 3
Prerequisites: COM 216
Notes: Crosslisted with COM 618.

COM 425 - Rhetoric and Public Memory
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.

Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 625. Credit at the 600-level requires additional work.

COM 427 - Love and Romance in Popular Communication
In this course, we will learn about the communicative elements related to how we view love and romance. By the end of this course, students will be able to critically think about the way popular communication and other sources of information create realistic and unrealistic perceptions regarding love and romance.

Credits: 3
Prerequisites: COM 216

COM 432 - Qualitative Research Methods in Communication
Survey of qualitative research methods and analysis in communication including interpretive approaches, interviews, focus groups, and fieldwork.

Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 632. Coursework at the 600-level requires additional work.

COM 434 - Communication and Conflict Resolution
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
COM 435 - Quantitative Research Methods
Survey of empirical research methods in communication including laboratory, field, and survey methods and their applications.
Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 634. Credit at the 600-level requires additional work.

COM 441 - Rhetoric of Dissent
Description and analysis of public discourse by agitators and those opposed to agitation. Focus on significant movements for change in recent American history.
Credits: 3
Prerequisites: COM 101 and junior standing.
Notes: This course is crosslisted with COM 641. Credit at the 600-level requires additional work.

COM 454 - Alternate Dispute Resolution
Review and analysis of contemporary communication-based conflict resolution alternatives, such as mediation, arbitration, restorative justice and other conflict resolution strategies such as negotiation.
Credits: 3
Prerequisites: ENG 102 and COM 216

COM 464 - Leadership: A Communication Perspective
Useful theories and practical experiences to make better leaders. Studies specific leaders, their philosophy of leadership, their ethics and effectiveness. Includes interviewing leaders both in the community and nationally.
Credits: 3
Prerequisites: COM 216

COM 482 - Security Discourse
In a globalized world the ways in which national security is discussed profoundly affects the public life of all individuals. Examines the language, arguments and practices related to security policy, including but not limited to topics such as the rhetoric’s of American foreign policy, war, terrorism and nuclear arms.
Credits: 3
Prerequisites: COM 216
Notes: This course is crosslisted with COM 682. Credit at the 600-level requires additional work.

COM 484 - Political Communication
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.
Credits: 3
Prerequisites: COM 101 and junior standing.
Notes: This course is crosslisted with COM 684. Credit at the 600-level requires additional work.

COM 495 - Independent Study
Supervised study and practical experience in subjects and projects to be determined in consultation with a Journalism and Media Studies faculty member. Students wishing to register for this course must consult with the faculty member prior to registration. May be repeated to a maximum of six credits.
Credits: 1-3
Prerequisites: COM 216
May be repeated to a maximum of six credits.

COM 499 - Internship
Supervised intern experience in commercial, non-profit, public, or government organizations.
Credits: 3
Prerequisites: Declared communication major, junior or senior standing, written consent of instructor and intern coordinator, appropriate previous course work, and 3.00 GPA.
Notes: S/F grading. May be repeated to a maximum of six credits, three of which may be applied to the degree program.
Criminal Justice

Purpose and Focus
The Bachelor of Arts degree in Criminal Justice is intended to provide students with a critical understanding of the nature and causes of crime and delinquency, the origins and meaning of law and social control (with emphasis on criminal law), the nature of the criminal justice system and the processing of cases through that system, and proposals for reducing crime and delinquency. The program is designed to broadly educate students, to prepare students for careers in various criminal justice settings, and to pursue graduate education.

Degree Objectives
Upon completing an undergraduate program in Criminal Justice, a student will:

1. Have demonstrated an awareness of the history and nature of the major components of the criminal justice system: police, courts, and corrections.
2. Be familiar with the basis of the law and the legal system as well as decision making in the criminal justice process, the social and political context of the legal system, important constitutional issues, and how criminal law differs from other forms of law.
3. Have demonstrated knowledge of the overall problem of crime in the United States in terms of being familiar with different types of crimes committed in society as well as possessing knowledge of the distribution of these crimes.
4. Understand issues related to crime prevention and the rehabilitation of offenders.
5. Be familiar with various methods of social science research, including survey research, field research, and experimental research, and demonstrate awareness of the linkage between theory and research.
6. Have basic knowledge of statistical procedures commonly used in the social sciences — in particular, those involved with descriptive research and hypothesis testing.
7. Be able to conduct a research project from beginning to end, including how to locate existing sources of relevant information, operationalize concepts of interest, collect data, interpret findings, and present information in a professional manner.
8. Be cognizant of various ethics concerns relevant to the study of criminal justice issues and the distribution of justice in society.
9. Be able to apply his or her knowledge in a variety of criminal justice settings, whether it be at the federal, state, or local level, or to pursue graduate education in criminal justice or a related field.

Learning Outcomes
Learning outcomes will be assessed by the administration of a Criminal Justice Department Exit Survey. The exit survey measures the extent to which required courses facilitated learning of each degree objective. In addition, students will complete a Criminal Justice Senior Assessment (CRJ 498) in their final semester.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
Criminal Justice

Admission to the Major
Minimum GPA: 2.00

Admission Policies
Students will be assigned a Pre-Criminal Justice Major (PRE-CRJ) designation until they have completed a minimum of 30 college or university
credits with a minimum of 2.00 GPA. The 30 credits must include: ENG 101, CRJ 104, and CRJ 270.

Distribution Requirements
Humanities and Fine Arts: (9 credits)
Two 3-credit courses from two different humanities areas and one three-credit introductory or appreciation course from a fine art. (See notes.)

Life and Physical Sciences and Analytical Thinking:
(9-10 credits)
Logic (PHIL 102) 3 credits and two courses from the life and physical sciences, at least one of which must be a laboratory course. (See notes.)

Transfer Policies
Only transfer credits in which the student has received a C or better will apply toward the 48-credit criminal justice requirements. Transfer students must complete CRJ 301 and 302 at UNLV.

Transfer students are required to consult with an academic advisor from the Greenspun College of Urban Affairs' Student Advising Center within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Department of Criminal Justice generally limits transfer credits for criminal justice courses taken at lower-division level to such courses as it offers at that level. Therefore, transferring students should not expect to substitute lower-division courses taken at another institution for upper-division criminal justice courses required at UNLV for degrees offered by the department.

Community college credits for approved courses are transferred as lower division only.
Requirements for upper-division courses in the Department of Criminal Justice generally cannot be met with community college courses.

Department Policies

Academic Policies
A 2.00 GPA must be maintained in order to continue as a criminal justice major.
Pre-Criminal Justice majors may not take upper-division courses.

Advisement
Upon acceptance as a major, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure orderly progress toward the degree, the faculty of the Criminal Justice Department strongly suggest that majors see an advisor at least once each year, preferably every semester. Upon acceptance as a pre-major or major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs' Student Advising Center.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Advising Center can be reached at 702-895-1009 or urbanaffairs@unlv.nevada.edu or may be visited in person on the 4th Floor of Greenspun Hall.
Criminal Justice Major (BA)

Criminal Justice Major- Bachelor of Arts (BA)
Please see the UNLV Greenspun Department of Criminal Justice web page at criminaljustice.unlv.edu/undergrad/ for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-criminal-justice.

Please see advising information at the UNLV Greenspun College of Urban Affairs Student Advising Center urbanaffairs.unlv.edu/advising

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Demonstrate an awareness of the history and nature of the major components of the criminal justice system: police, courts, and corrections.
2. Be familiar with the basis of the law and the legal system, as well as decision-making in the criminal justice process, the social and political context of the legal system, important constitutional issues, and how criminal law differs from other forms of law.
3. Demonstrate knowledge of the overall problem of crime in the United States, in terms of being familiar with different types of crimes committed in society, as well as possessing knowledge of the distribution of these crimes.
4. Understand issues related to crime prevention and the rehabilitation of offenders.
5. Be familiar with various methods of social science research including survey research, field research, experimental research, and evaluation research, and demonstrate awareness of the linkage between theory and research.
6. Have basic knowledge of statistical procedures commonly used in the social sciences, in particular, those involved with descriptive research and hypothesis testing.
7. Be able to conduct a research project from beginning to end, including how to locate existing sources of relevant information, operationalize concepts of interest, collect data, interpret findings, and present information in a professional manner.
8. Be cognizant of various ethical concerns relevant to the study of criminal justice issues, and the distribution of justice in society.
9. Be able to apply his or her knowledge in a variety of criminal justice settings, whether it be at the federal, state, or local level, or to pursue graduate education in criminal justice or a related field.

Assessment of Learning Outcomes
Learning outcomes will be assessed by the administration of a Criminal Justice Department Exit Survey. The exit survey measures the extent to which required courses facilitated learning of each degree objective. In addition, students will complete a Criminal Justice Senior Assessment (CRJ 498) in their final semester.

University Graduation Requirements
- Please see Graduation Policies for complete information

Criminal Justice Degree Requirements - Total: 120 Credits

(see note 1 below)

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through
our college. The following classes offered in our college meet graduation requirements.

**Seminars**

- **First-Year Seminar**
  - GSC 100 - First Year Experience Seminar

- **Second-Year Seminar**
  - GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities *required course for all majors in Greenspun College of Urban Affairs

**Constitution**

- URST 241 - Governance in the United States: An Urban Focus *(Only satisfies the United States Constitution requirement)*

**Humanities**

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

**Social Sciences**

- CFT 150 - Personal Growth
- CFT 350 - Human Sexuality
- CFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

**Life and Physical Science**

- ENV 101 - Introduction to Environmental Science
- ENV 220 - Introduction to Ecological Principles

**Multicultural**

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CFT 225 - Multicultural Issues and Families

**International**

- CRJ 407 - Law in Non-Western Societies
- CRJ 411* - Comparative Criminal Justice Systems
- URST 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

**General Education Requirements - Subtotal 36-40 Credits**

- **First-Year Seminar - Credits: 2-3**
  - URST 241 - Governance in the United States: An Urban Focus *(Only satisfies the United States Constitution requirement)*

- **English Composition - Credits: 6**
  - ENG 101 - Composition I
  - ENG 102 - Composition II

- **Second-Year Seminar - Credits: 3**
  - GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

- **Constitutions - Credits: 4-6**
- **Mathematics - Credits: 3**
- **MATH 120 or higher**

**Distribution Requirement - Credits: 18**

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts: 9 Credits**
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits

- **Social Science:**
  - Automatically satisfied by Major requirements

- **Life and Physical Sciences and Analytical Thinking: 9 Credits**
  - Two courses from life and physical sciences category; at least one must have a lab
  - Analytical Thinking - 3 credits
Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BA in Criminal Justice - Subtotal: 39 credits

At least one 400-level course from each of the following three major content areas.

(see notes 3 and 4 below)

Nature of Crime
- CRJ 315 - Hate Crimes
- CRJ 325 - Serial Killers and Sexual Predators
- CRJ 400 - Theories of Crime
- CRJ 409 - Youth, Crime, and Society
- CRJ 410 - White Collar Crime
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- CRJ 442 - Victims of Sex Crimes
- CRJ 450 - Seminar in Criminal Justice
- CRJ 480 - Special Topics in Law and Social Control

Criminal Justice Organizations and Administration
- CRJ 311 - Forensic Science
- CRJ 313 - Community Policing and Problem Solving
- CRJ 405 - History of Criminal Justice
- CRJ 412 - Leadership and Administration in Problem Solving
- CRJ 425 - The Correctional Institution
- CRJ 437 - Delinquency Prevention and Control
- CRJ 445 - Police Administration

- CRJ 460* - Public Policy, Crime, and Criminal Justice
- CRJ 462 - Probation and Parole
- CRJ 490 - Crime Prevention

Law and Society
- CRJ 407 - Law in Non-Western Societies
- CRJ 411* - Comparative Criminal Justice Systems
- CRJ 419 - Law and Society
- CRJ 435 - Jury Decision-Making
- CRJ 436 - Sociology of Law
- CRJ 438 - Social Inequality and Crime
- CRJ 441 - Social Science in Law
- CRJ 469 - Psychology and the Legal System
- CRJ 480 - Special Topics in Law and Social Control

Criminal Justice Major Requirement - Total Credits: 27
- CRJ 104 - Introduction to Administration of Justice
- CRJ 130 - Survey of Criminal Law
- CRJ 270 - Introduction to Criminology
- CRJ 301 - Research Methods in Criminal Justice
- CRJ 302 - Quantitative Applications in Criminal Justice

CRJ Electives - Credits: 21
Nine credits must be upper division

Related Areas - Credits: 18
Students must consult the Greenspun College of Urban Affairs Student Advising Center for a list of acceptable courses that meet this requirement.

Other Electives - Credits: 14-18
(see note 2 and 4 below)

Total Credits: 120

Notes

1. A student may elect to graduate under any one of the following catalogs: the year of
admission, the year of graduation, or the year of the latest change of major. The catalog used cannot be more than ten years old at the time of graduation. Requirements for graduation may vary depending on the catalog one uses. If you have questions, consult your advisor.

2. All criminal justice majors must take a total of at least 42 credits in upper-division (300-400 level) courses, including 27 credits in upper-division criminal justice courses, and at least six successfully completed credits of Other Electives.

3. Criminal justice majors are required to complete a total of 48 credits in criminal justice. (Of this total, 27 hours must be in upper-division courses.)

4. Only four physical education activity classes can be applied toward graduation.

**Criminal Justice Minor**

Courses Include Total Credits: 21

CRJ 104 - Introduction to Administration of Justice
CRJ 130 - Survey of Criminal Law
CRJ 270 - Introduction to Criminology
CRJ 301 - Research Methods in Criminal Justice
CRJ 432 - Criminal Justice Process

and six upper-division credits in criminal justice.

**Criminal Justice**

**CRJ 104 - Introduction to Administration of Justice**
American criminal justice system, its development, components, and processes; includes consideration of crime and criminal justice as a formal area of study.
Credits: 3

**CRJ 106 - Introduction to Corrections**
Analysis of the American correctional system emphasizing prison, probation, parole, and community-based corrections; theories of punishment/rehabilitation; the prison as a social system.
Credits: 3
Prerequisites: CRJ 104.

**CRJ 130 - Survey of Criminal Law**
Introduction to criminal law, its common law origins, basic concepts and application in legal proceedings.
Credits: 3
Prerequisites: CRJ 104.

**CRJ 155 - The Juvenile Justice System**
Overview of the basic philosophy and procedures of the juvenile justice system, types of delinquent offenders and factors associated with delinquency discussed.
Credits: 3
Prerequisites: CRJ 104.

**CRJ 164 - Introduction to Criminal Investigation**
Principles, methods, and procedures used in obtaining evidence used in criminal proceedings.
Credits: 3
Prerequisites: CRJ 104.

**CRJ 211 - Police in America**
History, organization, and role of the police in a democratic society. Current issues in policing discussed.
Credits: 3
Prerequisites: CRJ 104.

**CRJ 225 - Criminal Evidence**
Principles of evidence that pertain to the criminal justice process, nature and types of criminal evidence, and the rules governing the collection, presentation and admissibility of evidence in court, with special emphasis on the admissibility of evidence at trial.
Credits: 3
Prerequisites: CRJ 104.
CRJ 235 - Legal Method and Process
Federal and local judicial systems, analysis and synthesis of judicial opinions, the methods of interpretation of statutes, and the role of the courts in conflict resolution.
Credits: 3
Prerequisites: CRJ 104.

CRJ 270 - Introduction to Criminology
Examination of the causes, types, and distribution of crime in American society.
Credits: 3

CRJ 301 - Research Methods in Criminal Justice
Introduction to social research methods and their application to criminal justice. Emphasis on relationships of theory to research, measurement, research design, hypothesis testing, sampling, and the implications of research for social policy.
Credits: 3
Prerequisites: CRJ 104 and CRJ 270.

CRJ 302 - Quantitative Applications in Criminal Justice
Application of quantitative techniques to criminal justice data, with particular focus on problems of existing data sources. Methods of prediction, classification of offenders, forecasting crime trends and modeling decision making in the criminal justice system.
Credits: 3
Prerequisites: CRJ 301.

CRJ 311 - Forensic Science
Survey of the principles and techniques of scientific and technical examination of physical evidence obtained during the investigative process.
Credits: 3
Prerequisites: CRJ 164.

CRJ 313 - Community Policing and Problem Solving
Relationship between law, police, and community in context of policing reform towards community policing. Community policing elements including community-orientation, problem solving, and community crime prevention. Goals, strategies, and limits of formal and informal social control.
Credits: 3
Prerequisites: CRJ 104 and CRJ 301.

CRJ 315 - Hate Crimes
Manifestations, causes and consequences of hate crimes are discussed. Nature of bias-motivated crimes, the perpetrators, victims and the role of hate groups. Community and criminal justice response are also discussed.
Credits: 3
Prerequisites: CRJ 104 and CRJ 270.

CRJ 325 - Serial Killers and Sexual Predators
Examination of the extent, causes, and social characteristics of serial killers and sexual predators. Review of psychological and sociological theories of criminality to explain offender motivation, distribution of offenses across geographical areas, crime elements, and methods of selecting victims. Other topics include homicide investigation techniques, crime profiling, and computer mapping.
Credits: 3
Prerequisites: Three credits of social science.

CRJ 333 - Criminal Justice in Film
Explores how various criminal justice issues are represented and misrepresented in popular culture through film. In addition, films are used to illustrate perspectives relevant to criminal justice.
Credits: 3
Prerequisites: CRJ 270, CRJ 301.

CRJ 340 - Trial Advocacy: Mock Trial
This course will give students an overview of the trial process within the American legal tradition and provide students with the theoretical, technical, and practical skills used in trial advocacy. Students will learn about the Federal Rules of Evidence and trial structure including, voir dire, direct and cross-examinations of witnesses, and the admissibility of evidence.
Credits: 3
CRJ 341 - Trial Advocacy: Mock Trial Competition
This course further develops qualifying trial advocacy students' and returning mock trial students' knowledge and presentation skills relevant to the advocacy process. Student teams will prepare for intercollegiate competition by deeper case analysis of American Mock Trial Association (AMTA).
Credits: 1
Prerequisites: CRJ 340
May be repeated to a maximum of 2 credits.

CRJ 400 - Theories of Crime
Major theories of crime causation and societal reaction to crime. Particular attention to functionalism, conflict theory, definitional theory, the interactionist perspective, strain theory, and social and cultural support approaches.
Credits: 3
Prerequisites: CRJ 270 and CRJ 301.

CRJ 404 - Crime Analysis
Examines theories and statistical approaches to analyze data. These approaches include spatial analysis, behavioral profiling, arrest trajectories, population projections, risk assessment techniques, and other methods used in crime analysis.
Credits: 3
Prerequisites: CRJ 270, CRJ 301, CRJ 302, (cannot be taken concurrently).

CRJ 405 - History of Criminal Justice
Historical development of criminal justice. Several eras reviewed, including the colonial period (up to 1815), nineteenth century, early twentieth century (up to 1940), and the modern era (1940-present).
Credits: 3
Prerequisites: CRJ 104 and CRJ 301.
Notes: This course is crosslisted with CRJ 605. Credit at the 600-level requires additional work.

CRJ 407 - Law in Non-Western Societies
(Same as ANTH 407.) General theory and practice of social control. Examines law and legal procedures in tribal, peasant, and industrial societies.
Credits: 3
Prerequisites: CRJ 104 or ANTH 101, or upper-division standing.
Notes: Satisfies International Requirement.

CRJ 409 - Youth, Crime, and Society
Review of the nature, distribution, and causes of youth crime. Special attention on the historical context of youth crime and the subject of youth gangs.
Credits: 3
Prerequisites: CRJ 270 and CRJ 301.

CRJ 410 - White Collar Crime
Examines types, causes, and measurement of white-collar crime, provides an overview of different cases and their costs, considers competing theories to explain white collar criminality, and explores the use of criminal sanctions to deter the misconduct of corporations.
Credits: 3
Prerequisites: CRJ 104, CRJ 301.

CRJ 411* - Comparative Criminal Justice Systems
Analysis of the development, function, and problems of foreign criminal justice systems. Emphasis on comparisons to the American system.
Credits: 3
Prerequisites: CRJ 104.
Notes: Satisfies International Requirement. This course is crosslisted with CRJ 611. Credit at the 600-level requires additional work.

CRJ 412 - Leadership and Administration in Problem Solving
Credits: 3
Prerequisites: CRJ 104.
CRJ 416 - Campus Crime
This course explores the relationship between practice and research as reflected in the problems and challenges that confront campus policing and security. This course incorporates both a historical and a contemporary view of campus crime.
Credits: 3
Prerequisites: CRJ 104, CRJ 270.

CRJ 419 - Law and Society
This course examines major theoretical and methodological perspectives in sociology of law, lawmaking, law as social control, law in dispute resolution, and its effects on social change. With classic and topical readings, it challenges students to think critically about the nature and functions of law in contemporary society.
Credits: 3
Prerequisites: CRJ 104, CRJ 130, CRJ 270.

CRJ 425 - The Correctional Institution
Development, philosophy, and operational manifestations of various sentencing alternatives with particular emphasis on correctional institutions and subsequent classification and programming.
Credits: 3
Prerequisites: CRJ 104 and CRJ 301.

CRJ 428 - Women and Crime
(Same as WMST 428.) 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.
Credits: 3
Prerequisites: CRJ 270 and CRJ 301.
Notes: Satisfies the Multicultural Requirement. This course is crosslisted with CRJ 628. Credit at the 600-level requires additional work.

CRJ 429 - Gender and Crime
Debates about the similarities and differences between men and women as they apply to crime.

CRJ 432 - Criminal Justice Process
Procedural law concerning the processing of criminal matters from the investigatory stage through adjudication and disposition in state and federal courts. Emphasis on constitutional case law.
Credits: 3
Prerequisites: CRJ 130.

CRJ 435 - Jury Decision-Making
Cognitive and social influences that affect jury decision-making. Relationship between juror attitudes and behavior, information processing abilities of jurors, decision-making strategies, psycholinguistic limitations of jury instructions, conformity pressures, and other social-psychological factors affecting deliberations.
Credits: 3
Prerequisites: CRJ 130 and CRJ 301.

CRJ 436 - Sociology of Law
Study of the social nature of law, the relationship of law to social organization, law as a mechanism of social change, and the interrelationship between social factors and legal processes.
Credits: 3
Prerequisites: CRJ 130 and CRJ 301.
Notes: This course is crosslisted with CRJ 636. Credit at the 600-level requires additional work.

CRJ 437 - Delinquency Prevention and Control
Examination of the techniques of control, prevention, and treatment of delinquent behavior. Focus on linking techniques to theories of delinquency.
Credits: 3
Prerequisites: CRJ 409.
CRJ 438 - Social Inequality and Crime
Overview of the many dimensions of social inequality and how it relates to law, crime, and justice. Review of social stratification theories and poverty included.
Credits: 3
Prerequisites: CRJ 270 and CRJ 301.

CRJ 441 - Social Science in Law
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.
Credits: 3
Prerequisites: CRJ 130 and CRJ 301.
Notes: This course is crosslisted with CRJ 641. Credit at the 600-level requires additional work.

CRJ 442 - Victims of Sex Crimes
Study of victimization due to sexual crimes or deviance. Impact of sexual abuse, rape, pornography and prostitution.
Credits: 3
Prerequisites: CRJ 270, CRJ 301.

CRJ 445 - Police Administration
Development and implementation of administrative policies in the management of resources in law enforcement agencies. Emphasis on personnel, planning, budgeting, and decision-making processes.
Credits: 3
Prerequisites: CRJ 104 and CRJ 301.

CRJ 450 - Seminar in Criminal Justice
Contemporary issues and problems in criminal justice viewed from an analytic perspective. Content differs each semester.
Credits: 3
Prerequisites: CRJ 270, CRJ 301.
May be repeated to a maximum of six credits.

CRJ 460* - Public Policy, Crime, and Criminal Justice
Review of current public policy issues related to crime and criminal justice in the United States. Specific topic may change as new policy issues emerge.
Credits: 3
Prerequisites: CRJ 104 and CRJ 301.

CRJ 462 - Probation and Parole
Principles and practices of probation and parole. Emphasis on constructive methods of correctional processing within the broad scope of community-based corrections.
Credits: 3
Prerequisites: CRJ 425.

CRJ 469 - Psychology and the Legal System
(Same as PSY 469) Psychological perspective for understanding legal issues. Topics include the development of conceptions of morality and justice, psychological theories of anti-social behavior, conflict resolution strategies, insanity and the law, judicial decision-making, the effects of stress on police officers, criminal psychological profiling, and psychological impact of victimization.
Credits: 3
Prerequisites: CRJ 130 and CRJ 301.

CRJ 480 - Special Topics in Law and Social Control
Focused analysis of specific forms of criminal behavior or particular theoretical approaches to crime causation. Content differs each semester.
Credits: 3
Prerequisites: CRJ 104 and CRJ 270.
May be repeated to a maximum of six credits.

CRJ 490 - Crime Prevention
Study of recurring crime problems and approaches to reduce harmful criminal activities. Focused and systematic investigation of existing crime opportunity structures. Application of crime theories to develop police- and community-based strategies to prevent specific crime events.
CRJ 491 - Internship in Criminal Justice
Reinforces academic knowledge with practical work experience in local, state, and federal criminal justice agencies.
Credits: 3
Prerequisites: CRJ 301.

CRJ 496 - Criminal Justice Mentor Training
This course will give you the opportunity to make a positive change in people’s lives. It will serve as the main component of the Trailblazers Program in the Department of Criminal Justice. The goal is to train peer mentors who will help first-generation Criminal Justice college students succeed in college.
Credits: 3
Prerequisites: CRJ 104, junior standing or higher, and consent of instructor

CRJ 497 - Peer Mentoring in Criminal Justice
This course will give students the opportunity to apply the training received in CRJ 496. Students will serve as peer mentors in the "Trailblazer" program, and will provide assistance to first-generation CRJ students.
Credits: 3
Prerequisites: CRJ 496
May be repeated to a maximum of six credits.

CRJ 498 - Criminal Justice Senior Assessment
Students must complete the Senior Assessment, CRJ 498, during the semester in which they plan to graduate. Designed to assess students’ knowledge in criminal justice, evaluate department performance and identify areas that need to be strengthened in the department and the curriculum.

Credits: 0
Prerequisites: Graduating senior in semester of graduation.

CRJ 499 - Independent Study
Individual research under supervision of the instructor. Students undertake specific research projects in criminal justice on the basis of interest and preparation.
Credits: 1-6
Prerequisites: CRJ 104 and consent of instructor.
May be repeated up to six credits.
Hank Greenspun School of Journalism and Media Studies

Purpose and Focus
The Hank Greenspun School of Journalism and Media Studies prepares students to become thoughtful scholars, researchers, and effective professionals in multiple converged media platforms, whether the output be professional news, integrated marketing communications, or more scholarly media studies. Faculty engage students in a supportive environment of scholarship and service, stressing knowledge of theory and practice, ethics, critical thinking, and social responsibility.

Undergraduate Major
Journalism and Media Studies

Areas of Concentration
With the reduction of core course requirements comes an increase in the scope of courses students may take. Moving to Areas of Concentration rather than strictly enforced tracks, our students will be able to complete their degrees in a timely fashion and still have one or two areas of concentration to explore. In an era of constant media change, many of the traditional tracks through a journalism and media program erect artificial barriers to learning; this program seeks to avoid those barriers. Students meet with advisors after completing the pre-major courses to identify individual areas of concentration; they may also meet with faculty advisors as they continue their programs of study to make sure they are on track for completion of their degrees.

Admission to the Major
Minimum: GPA: 2.00

Admission Policies
Students will be assigned a Pre-Journalism (JOURPRE) designation until they have completed the following pre-major requirements:

1. Journalism and Media Studies core (12 credits)
   JOUR 107, JOUR 108, JOUR 207 and JOUR 208.

2. UNLV General Education Core courses (16–18 credits)
   ENG 101 and ENG 102
   U.S. and Nevada Constitutions requirement
   Six credits chosen from the remaining general education core requirements. All courses satisfying Pre-Journalism requirements must be completed with at least a C (2.00) grade (C- is unacceptable). Pre-journalism students may not enroll in upper-division JOUR courses (300–400 level) without express permission of the instructors. Upon completion of the pre-major requirements and after meeting with a faculty advisor, students may apply for full admission to the major.

Transfer Policies
Transfer students will be assigned a JOURPRE designation until they have completed the pre-major requirements described above. Students must meet with an academic advisor in the college's Student Advising Center for articulation of transfer credit, and with a faculty advisor to determine which courses beyond the core would best serve the interest of the student.

School Policies

Academic Policies
Students must be journalism and Media Studies majors during the completion of the last 30 credits taken at UNLV in fulfillment of the departmental residency requirement. Journalism and Media Studies courses may not be used to satisfy more than one requirement, with the exception of international and multicultural requirements. Only course work in the major for which a grade of C or above (C- is not acceptable) is received will count toward satisfaction of the degree requirements. Maintenance of a UNLV 2.00 GPA is required to remain in and graduate from the program.
Outside Area of Interest
Although there is no formal minor required, students will complete twelve credits in an outside area of interest. At least six credits must be at the upper division (300-400) level.

Change of Major
Change of status from pre-major to major requires the student to acquire a change of major form from the Student Advising Center and follow the steps indicated.

Internships
Practical application of classroom experience through professional internships is mandatory for all majors. A student is expected to have completed at least 12 credits of appropriate course work prior to any internship and to have at least a 2.0 GPA. All students must complete three credits of internship.

Advisement
Upon acceptance as a pre-major, each student must meet with an advisor from the Greenspun College of Urban Affairs’ Student Advising Center. To ensure orderly progress toward the degree, the faculty of the Hank Greenspun School of Journalism and Media Studies will also advise students. Faculty advisement takes place once a student has completed pre-major courses, or is in the last semester of completing pre-major courses. Students who fail to meet with a faculty advisor will not be allowed to continue in the program until such advisement has taken place.

Transfer students are required to consult with a college advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major. Faculty advisement must happen within one academic year of admission. The Advising Center can be reached at 702-895-1009 or urbanaffairs@unlv.nevada.edu or may be visited in person on the 4th Floor of Greenspun Hall.

Journalism and Media Studies Major (BA)

Journalism and Media Studies Major - Bachelor of Arts (BA)
Please see the UNLV Greenspun Department of Journalism and Media Studies web page at journalism.unlv.edu/index.htm for information about department programs, faculty and facilities. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/ba-journalism-media-studies.

Please see advising information at the UNLV Greenspun College of Urban Affairs Student Advising Center urbanaffairs.unlv.edu/advising

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes
1. Analyze and apply the principles and laws of freedom of speech and press, including the right to dissent, to monitor and criticize power, and to assemble and petition for redress of grievances;
2. Analyze the history and role of professionals and institutions in shaping journalism, media and communications organizations;
3. Analyze the diversity of groups in a global society in relationship to journalism, media and communications organizations;
4. Analyze concepts and apply theories in the use and presentation of images and information;
5. Demonstrate an understanding of professional ethical principles in journalism, media, and communications organizations to work ethically in pursuit of truth, accuracy, fairness and diversity;
6. Think critically, creatively and independently;
7. Conduct research and evaluate information by methods appropriate to
professional journalism, media and communications organizations;

8. Craft and deliver effective messages in oral, written, and/or visual forms, as appropriate to the journalism, media and communications profession in which they plan to work;

9. Critically evaluate their own work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness;

10. Apply basic numerical and statistical concepts;

11. Apply tools and technologies appropriate for the journalism, media and communications professions in which they plan work;

12. Prepare collaborative projects for the appropriate journalism, media and communications professions in which they plan to work.

University Graduation Requirements

- Please see Graduation Policies for complete information

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:

Seminars

- First-Year Seminar
  - GSC 100 - First Year Experience Seminar
  - GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

*required course for all majors in Greenspun College of Urban Affairs

Constitution

- URST 241 - Governance in the United States: An Urban Focus

Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 469 - Psychology and the Legal System
- CFT 150 - Personal Growth
- CFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

Life and Physical Science

- ENV 101 - Introduction to Environmental Science

Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- CFT 225 - Multicultural Issues and Families

International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411* - Comparative Criminal Justice Systems
- JOUR 475 - Global Media
- URST 205 - Environment and Development

Journalism and Media Studies Degree - Total: 120 Credits

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:
General Education Requirements - Subtotal: 37-40 Credits

First-Year Seminar - Credits: 2-3

Second-Year Seminar - Credits: 3
- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

English Literature - Credits: 3
- ENG 231 - World Literature I
  or
- ENG 232 - World Literature II

Constitutions - Credits: 4-6

Mathematics - Credits: 3

Distribution Requirement - Credits: 19

Please see Distribution Requirements for more information.

- **Humanities and Fine Arts:**
  - Automatically satisfied by Major requirement

- **Social Sciences:** 9 credits
  - One course each from three different fields

- **Life and Physical Sciences and Analytical Thinking:** 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses for Life and Physical Sciences category; at least one must have a lab.

Multicultural and International

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: https://www.unlv.edu/provost/multicultural-requirements.

Major Requirements - BA in Journalism and Media Studies - Subtotal: 48 Credits

- **Journalism and Media Studies Pre-Major - Total Credits: 6**
  - JOUR 107 - All Things Media: Foundations
  - JOUR 207 - All Things Media: Words and Numbers

- **Journalism and Media Studies Core - Credits: 15**
  - JOUR 112 - Introduction to Digital and Social Media
  - JOUR 211 - Media Storytelling and Design
  - JOUR 401 - The First Amendment and Society
  - JOUR 435 - Mass Communication Research Methods
  - JOUR 499 - Professional Internship

Areas of Concentration - Credits: 15

There are seven areas of concentration: Journalism, Visual Production, Sports Media, Audio and Podcasting, Social Media, Public Relations and Marketing, and Media Studies. Each concentration is 15 credits and students may have more than one concentration.

JMS Electives - Credits: 12

Total of 6 credits of lower division electives plus 6 credits of upper division electives.

Total credits within the major (including pre-major courses): 48 (see note)

Electives - Credits: 35
Total Credits: 120

Note

Total credits within the major, consist of 6 credits of Pre-major courses, 15 credits of Journalism and Media Studies Core, 15 credits in a concentration, and 12 credits of JMS electives (6 lower divisions and 6 upper division) for a total of 48 credits.

Journalism and Media Studies B.A. concentrations:

**Journalism**

- JOUR 309 - Reporting I
- JOUR 310 - Advanced Reporting
- JOUR 411 - Digital Newsroom
- JOUR 445 - Narrative Journalism
  - or
- JOUR 486 - Storytelling Workshop
  - or
- JOUR 488 - Journalism Boot Camp

**Visual Production**

- JOUR 202 - Electronic Media Production I
- JOUR 310 - Advanced Reporting
- JOUR 325 - Electronic Media Production II
- JOUR 424 - Electronic News Practicum

**Sports Media**

- JOUR 202 - Electronic Media Production I
- JOUR 310 - Advanced Reporting
- JOUR 325 - Electronic Media Production II
- JOUR 371 - Media and Sports
- JOUR 439 - Broadcast Practicum

**Audio and Podcasting**

- JOUR 213 - Audio Announcing
- JOUR 310 - Advanced Reporting
- JOUR 353 - Audio Production for Mass Media
- JOUR 403 - Audio Storytelling
- JOUR 427 - Podcasting

**Social Media**

- JOUR 305 - Media Ethics
- JOUR 347 - Social Networks and Media
- JOUR 375X - Social Media Strategies
- JOUR 447 - Online Games, Virtual Worlds, and Social Networks
- JOUR 450 - Media, Innovation, and Society

**Public Relations and Marketing**

- JOUR 210 - Introduction to Public Relations
  - or
- JOUR 261 - Introduction to Integrated Marketing Communications
  - and
- JOUR 362 - Writing for Public Relations
- JOUR 463 - IMC Strategic Planning: Case Studies in Public Relations and Advertising
- JOUR 470 - Integrated Marketing Communication Campaigns
  - or
- JOUR 433 - IMC Competition
  - and
- JOUR Concentration elective

**Media Studies**

- JOUR 380 - Women and Media
- JOUR 408 - Media Criticism
- JOUR 413 - History of Journalism
- JOUR 475 - Global Media
- JOUR 485 - Mass Media and Society

**Journalism and Media Studies Minor**

Students minoring in Journalism and Media Studies take the three pre-major courses that all our students take, and then move to a selection of one course from the core, plus three upper-division (300-400 level) courses.

**Six units of required courses**

- JOUR 107 - All Things Media: Foundations
- JOUR 207 - All Things Media: Words and Numbers

**Three units from the following:**
• JOUR 112 - Introduction to Digital and Social Media
• JOUR 211 - Media Storytelling and Design

Three units of core-course choices, from the following:

• JOUR 305 - Media Ethics
• JOUR 401 - The First Amendment and Society
• JOUR 408 - Media Criticism
• JOUR 413 - History of Journalism
• JOUR 435 - Mass Communication Research Methods

Additional Nine units from upper-division (300-400 level) Journalism and Media Studies courses

**Journalism and Media Studies**

**JOUR 100 - Introduction to Journalism and Media Studies**
Required pre-major course introduces prospective majors to the big names, big themes and big theories of journalism and media studies. Students meet twice each week, once for a mass lecture and once in a break-out discussion section.
Credits: 3

**JOUR 101 - Critical Analysis of Mass Media**
Credits: 3

**JOUR 102 - Media: Writing and Data**
The basic writing and statistical analysis course, with special attention to Associated Press style writing and basic statistical analysis. Analysis of news content and how news is obtained and written.
Credits: 3

**JOUR 107 - All Things Media: Foundations**
The basic course in journalism and media studies, this course provides an overview—historical, technological, and theoretical—to the fields of journalism and integrated marketing communications.
Credits: 3
Notes: Satisfies Social Science Requirement.

**JOUR 108 - All Things Media: Design**
Working with modern media requires experience with design concepts and tools, including effectively structuring information, developing layout and formatting, typography, and understanding the potentials and challenges of multiple media formats. This course covers design concepts, skills, and tools that are essential for those intending to develop, manage, or evaluate the design of media.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.

**JOUR 112 - Introduction to Digital and Social Media**
This is a survey course that introduces students to the interactive world of digital and social media, looking at how it’s used by professional communicators and examining its effects on individuals, society, and the media professions.
Credits: 3

**JOUR 202 - Electronic Media Production I**
Lecture and lab for the study of and training in studio and field video production, basic post-production, and resource utilization across electronic platforms.
Credits: 3

**JOUR 207 - All Things Media: Words and Numbers**
Provides fundamental instruction and pre-professional practice in writing as a basis for upper-division courses in journalism and media studies. Analysis of news content and how news is obtained and written.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.
JOUR 208 - All Things Media: Images and Sound
For anyone working in the media industry—be it journalism, integrated marketing communications, film or social media—it is imperative that those workers have a basic understanding of media production, manipulation and distribution. This course introduces students to the systemic nature of technological media by using a tool many students carry: smart phones.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.

JOUR 209 - Mobile Storytelling
Introduces how to use mobile phones to produce, shoot, and edit visual and audio stories. Teaches how to upload stories to social networks and website that will appeal to smartphone audience.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107

JOUR 210 - Introduction to Public Relations
Study of the practice of public relations including media, employee, consumer, community, shareholder, and customer relations. Emphasis on the history of public relations, its role, and impact on today's society.
Credits: 3
Prerequisites: Sophomore standing, non-JOUR majors.

JOUR 211 - Media Storytelling and Design
Working with modern media requires experience with design concepts and tools, including effectively structuring information, developing layout and formatting, typography, and understanding the potentials and challenges of multiple media formats. This course covers design concepts, skills, and tools that are essential for those intending to develop, manage, or evaluate the design of media.
Credits: 3

JOUR 213 - Audio Announcing
Students will learn techniques for announcing in various media and public environments. The curriculum covers sports announcing, TV announcing, radio announcing, MC'ing, voice-over work and more. Students will work with other classes to create pieces for air on KUNV 91.5 FM.
Credits: 3
Prerequisites: JOUR 107

JOUR 220 - Fundamentals of Applied Media Aesthetics
Survey of the various fields that use visual imagery for communicative purposes. Graphic design, film, and televisual imagery covered. Emphasis on television and film aesthetics and picture composition.
Credits: 3

JOUR 250 - Teaching Journalism
An on-line condensed course for high school and middle school journalism teachers covering theory, history, ethics and writing style.
Credits: 3

JOUR 261 - Introduction to Integrated Marketing Communications
Introduction to the terminology and theories of all five sectors of integrated marketing communications, including advertising, public relations, direct marketing, personal selling, sales promotions, and digital/social media. Students build core knowledge of IMC strategies in both traditional and emerging media platforms.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.

JOUR 276 - Design Principles for Advertising/Publications
Introduction to the visual aspects and basic types of print communication including advertising, periodicals, collateral material, direct mail, point of purchase, promotion, and merchandising.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.
Notes: Same as GRC 250.

**JOUR 305 - Media Ethics**
Case study-based examination of ethical theory in communication as it applies to the various disciplines within journalism and integrated marketing communications.
Credits: 3
Prerequisites: Junior or senior standing.

**JOUR 309 - Reporting I**
Our objective is to become proficient in some of the most important aspects of the reporting process—especially the interviewing process. We'll do that by learning to develop subject ideas, do meaningful research, conduct successful interviews and develop those interviews into stories in a variety of mediums.
Credits: 3
Prerequisites: Admitted to the major. Minimum grade of C in JOUR 101 or JOUR 107.

**JOUR 310 - Advanced Reporting**
Advanced training and practice in gathering and writing news; also exercises in feature writing.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.

**JOUR 313 - Photo Journalism**
Designed for students interested in learning the techniques of the photojournalist. Emphasis on the operation of the camera, associated camera techniques, and procedures for covering a news or feature photo assignment.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.

**JOUR 311 - Avid Certified Editing**
JOUR 311 is designed to increase your understanding of the processes and procedures of editing in a file-based environment with Avid Media Composer, Version 7.0., leading to certification as Avid Certified Editors.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 201 and admitted to the Journalism major.

**JOUR 321 - Health Media**
This course introduces students to issues related to health journalism. Topics include coverage of wellness, health care, disease, physical and mental health, and nutrition. Students will learn how to report on medical and health news in a variety of media formats.
Credits: 3
Prerequisites: JOUR 102 or JOUR 207, and JOUR 107

**JOUR 324 - Electronic Media Production II**
Covers advanced electronic production for video and internet delivery platforms, utilizing professional-grade resources to create cross-platform journalistic narratives.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 202. Admitted to the major.

**JOUR 325 - Media Planning and Buying**
Study and implement print, broadcast, online and outdoor media planning and buying methodologies. Investigate the relationship between the business and its advertising needs. Learn and apply value-added techniques to increase effectiveness of the media plan and the buy plan.
Credits: 3
Prerequisites: Admitted to the major. Minimum grade of C in JOUR 210 or JOUR 261.
JOUR 333 - Introduction to Interactive Media Design
Background, analysis, design, and production techniques relevant to interactive media, primarily focusing on the web but appropriate for other emerging media.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.

JOUR 347 - Social Networks and Media
This course provides a humanistic overview of virtual communities, blogs and other emerging social media platforms. The course offers an introduction to both academic and practical knowledge, as well as limited hands-on experience.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.
Notes: Duplicate credits cannot be earned for JOUR 247 (Introduction to Social Networks and Media) and JOUR 347 (Social Networks and Media).

JOUR 353 - Audio Production for Mass Media
Students will learn preparing for and recording audio for over-the-air and online broadcast, as well production of various styles of audio pieces for both stand-alone presentation as well as to accompany video or print stories.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 213 or instructor's consent.

JOUR 362 - Writing for Public Relations
Introduction to various publicity-creating techniques, including practical experience in writing and producing publicity releases for the mass media.
Credits: 3
Prerequisites: Admitted to the major. Minimum grade of C in JOUR 207 and (JOUR 210 or JOUR 261).

JOUR 371 - Media and Sports
Historical-critical in subject matter, this course explores the ways in which media and sports influence each other.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 100 or JOUR 107.

JOUR 374 - Advertising Copywriting
Covers copywriting for both print and electronic media anchored in client creative strategies.
Credits: 3
Prerequisites: Admitted to the major. Minimum grade of C in JOUR 207 and (JOUR 210 or JOUR 261).

JOUR 380 - Women and Media
(Same as WMST 380.) Exploration of the role of women within the media and the treatment of women by the media.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 101 or JOUR 107.

JOUR 401 - The First Amendment and Society
Examination of the evolution and contemporary impact of laws relating to communication.
Credits: 3
Prerequisites: Junior or senior standing.

JOUR 403 - Audio Storytelling
Students will learn to prepare and record audio stories for over-the-air and online broadcasts. They also will produce various styles of audio pieces for both stand-alone presentations and in conjunction with video or print stories.
Credits: 3
Prerequisites: JOUR 213 and JOUR 353 with a grade of C or better.
JOUR 408 - Media Criticism
Critical approaches to the study of both traditional and evolving media in all forms. Focus varies by semester.
Credits: 3
Prerequisites: Junior or Senior Standing, and minimum grade of C in JOUR 101 or JOUR 107.

JOUR 411 - Digital Newsroom
The study and practice of running an online news site. Application of the fundamentals of digital journalism to newsmagazines, webzines, and other online publications, including editing, smart-story lineup, tracking analytics, and story promotion.
Credits: 3
Prerequisites: Minimum grade of C in the following courses: JOUR 101 or JOUR 107, and JOUR 102 or JOUR 207.

JOUR 413 - History of Journalism
History of American mass media from antecedents in medieval Europe to the present.
Credits: 3
Prerequisites: Junior or senior standing.

JOUR 420 - Visual Literacy
Analysis of graphics, film, television, and digital imagery. Theoretical, critical, and practical hands-on applications. From advertising to photojournalism and from entertainment to documentary images, and everything in between, many types of visuals are analyzed and discussed in class.
Credits: 3
Prerequisites: Junior or senior standing.

JOUR 424 - Electronic News Practicum
Production of Studio G, a daily, student-run, live newscast for dissemination on the World Wide Web. Offers extended credits and is the capstone course in this area of the major.
Credits: 6
Prerequisites: Junior or senior standing. Minimum grade of C in JOUR 202 and JOUR 325.
May be repeated to a maximum of twelve credits.

JOUR 427 - Podcasting
The modern journalist is tasked with understanding the practical application of gathering, editing, and producing audio news within the converged journalism and media environment. We use podcasting as the site for learning about these changes.
Credits: 3
Prerequisites: Admitted to the major. Minimum grade of C in JOUR 101 or JOUR 107.

JOUR 433 - IMC Competition
Join advertising, public relations and marketing students to prepare an integrated marketing communication plan for a national or international client. Compete with other top schools in the American Advertising Federation's National Student Advertising Competition (NSAC).
Credits: 3
Prerequisites: Junior or Senior standing.
May be repeated to a maximum of nine credits.

JOUR 435 - Mass Communication Research Methods
Survey of empirical research methods in communication including laboratory, field, and survey methods and their applications.
Credits: 3
Prerequisites: Junior or senior standing.

JOUR 439 - Broadcast Practicum
Focus on practical experiences in broadcast or production organizations, with emphasis on both in-studio and portable applications.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 202, JOUR 325, admitted to the major, junior or senior standing and consent of instructor.
May be repeated to a maximum of six credits.
JOUR 444 - Advanced Interactive Media Design
Hands-on advanced experience in interactive media design, primarily focusing on collaborative production of web resources, evaluation techniques, multimedia content, and maintenance of best practices awareness.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 333, admitted to the major, junior or senior standing.

JOUR 445 - Narrative Journalism
A concentration on magazine journalism: how to come up with ideas, write and edit stories, report, best present information, consider design, and develop smart display copy. You’ll explore the fundamentals of journalism and how to best apply them to magazines.
Credits: 3
Prerequisites: Completion of JOUR 102 or JOUR 207 and JOUR 309 or JOUR 310 with a C or better.

JOUR 447 - Online Games, Virtual Worlds, and Social Networks
Utilizing popular virtual environments, students gain an understanding of the culture and interpersonal interactions that occur. Many different aspects may be examined including virtual world journalism, business and advertising, fundraising, virtual world religion, and educational aspects. Experimental in many ways, the course can at times be hybrid in nature.
Credits: 3

JOUR 449 - News Anchoring and Reporting
This course will teach future journalist, or those interested in becoming on-air personalities, skills for on-air presentation, writing and storytelling. It will cover topics related to television broadcasts and social media posts in the areas of news, sports and entertainment.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 202, and Junior or Senior standing.

JOUR 450 - Media, Innovation, and Society
Examination of the evolution of mass communication technologies from the early days of radio to the satellite systems of the present. Impact of computer technology and prospects for the future of mass communication technology also covered.
Credits: 3
Prerequisites: Junior or Senior Standing and Minimum grade of C in JOUR 101 or JOUR 107.

JOUR 457 - Media, Privacy, and Law
Examination of unmanned aerial systems (drones) and other developing technologies for gathering information; their use by media organizations, law-enforcement, and individuals; and their regulation by law and by professional ethics codes.
Credits: 3
Prerequisites: Junior or Senior standing. Minimum grade of C in second-year seminar course.

JOUR 461 - Issues in Advertising
Examination of current issues that affect the advertising industry and society which may include the study of agencies and clients, public relations, direct marketing, promotions, interactive media, the creative process, ethics and emerging trends.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 332 or JOUR 362 or JOUR 374.

JOUR 463 - IMC Strategic Planning: Case Studies in Public Relations and Advertising
Case-based exploration and application of theory and principles to organization problems and opportunities. Examine strategic planning process for IMC; advertising, public relations, promotion, direct marketing, and emerging media. Emphasis on team-based preparation and presentation of strategic IMC plan for a selected client.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 210 or JOUR 261.
JOUR 465 - Crisis Communications
A comprehensive introduction to crisis communications, including the anatomy of a crisis and basics of crisis communication planning. Explore recent real-world examples in texts, class discussions, case presentations, and guest speakers. Receive specialized crisis response training, learn basic media relations skills, and participate in a crisis communication tabletop exercise.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 210 or JOUR 261

JOUR 470 - Integrated Marketing Communication Campaigns
Develop campaign utilizing all components of the IMC model; advertising, public relations promotion, direct marketing, and interactive. Students prepare a written proposal and presentation for a selected client, focusing on strategy and tactics.
Credits: 3
Prerequisites: Minimum grade of C in either JOUR 210 or JOUR 261, and JOUR 463 and one of JOUR 332, JOUR 362, or JOUR 374.

JOUR 475 - Global Media
Analysis of media globalization, including economic, media conglomerate, and technological factors. Case studies of selected countries including cultural, political, regulatory, financial, media structure, media content, news, imports and export, and audiences factors.
Credits: 3
Prerequisites: Junior or senior standing.
Notes: Satisfies the International Requirement.

JOUR 484 - Mass Media and Political Communication
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.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 102, JOUR 310

JOUR 485 - Mass Media and Society
Examines theory and research informing the role traditional and evolving media play in shaping public opinion and everyday life. This course also serves as the culminating experience in Journalism and Media Studies.
Credits: 3
Prerequisites: Junior or senior standing.

JOUR 486 - Storytelling Workshop
Interactive workshop focusing on the concept, structure and practice of narrative storytelling. Students will learn the crafts of interviewing for narrative, researching for context, and drafting and editing for aesthetic impact. Interactive workshop focusing on the concept, structure and practice of narrative storytelling. Students will learn the crafts of interviewing for narrative, researching for context, and drafting and editing for aesthetic impact.
Credits: 3
Prerequisites: Admitted to the major, junior or senior standing.

JOUR 488 - Journalism Boot Camp
This course will push serious journalism students to produce professional-level work. Besides writing breaking-news and feature stories on various deadlines, for online and print, students will collegially edit one another's work. The goal: to polish the skills necessary to land a journalism job.
Credits: 3
Prerequisites: Minimum grade of C in JOUR 102, JOUR 310

JOUR 490 - Selected Topics
Study of a specific topic related to mass communication.
Credits: 3
Prerequisites: Admitted to the major, junior or senior standing.
May be repeated to a maximum of six credits.
JOUR 493 - Independent Studies
Supervised study and practical experience in subjects and projects to be determined in consultation with a Journalism and Media Studies faculty member. Students wishing to register for this course must consult with the faculty member prior to registration.
Credits: 1-3
Prerequisites: Admitted to the major, junior or senior standing.
May be repeated to a maximum of six credits.

JOUR 499 - Professional Internship
Introduces students to language not just as a means of conveying information, but also as a way for individuals and groups express identity and their place in society. Examines how language use shapes worldviews cross-culturally as well as how these worldviews shape language use. Study that language interacts with the social world interact in many ways including through gender, age, and class/caste across diverse cultures.
Credits: 3
Prerequisites: Junior or senior standing and permission of the Internship Coordinator.
Notes: S/F grading only.
Internships may be repeated to a maximum of six credits.

LAND 180 - Design Foundation I
Students are introduced to fundamentals of design principles. Emphasis will be placed on the development of conceptual ideas through experimentation across a range of media and creative disciplines.
Credits: 3
Notes: Same as AAD 180, AAI 180.
School of Public Policy and Leadership

Purpose and Focus
The undergraduate degree program in Urban Studies focuses on urban challenges and opportunities for citizens living in metropolitan areas. It is an interdisciplinary program that is based upon multiple fields of study relating to public infrastructure, demography, population dynamics, and civic engagement. Students will have the opportunity to develop skills while responding to community needs and identifying solutions. The major is intended to serve as a foundation for careers and graduate programs in government, community service, education, environmental studies, law and real estate. Graduates are expected to serve the governmental, nonprofit, and business-professional sectors.

Please see the Urban Studies web page at https://www.unlv.edu/publicpolicy for information about department programs, faculty and facilities. Please see advising information at the Undergraduate Advising at urbanaffairs.unlv.edu/advising/.

Learning Outcomes (B.S.)
Upon completing an undergraduate degree program in Urban Studies, a graduate will be able to:

- Examine whether an organization or community meet multiple conditions of sustainability.
- Characterize the roles of individuals and organizations in policy and governance.
- Produce analyses that demonstrate information literacy and numeracy.
- Communicate data needs and analyses to multiple audiences to support decision making processes.
- Apply knowledge and skills required for successful collaboration.

Meeting and Assessing Learning Outcomes
The School of Public Policy and Leadership assesses learning outcomes through course outcome measures, surveys and successful completion of a portfolio.

Accreditation
Northwest Commission on Colleges and Universities

Undergraduate Major
Urban Studies — Bachelor of Science

Department Policies
Internships
Because urban studies demand more than the study of the abstract, the School suggest that students find internship opportunities with government, business, or industry. Students are strongly encouraged to gain critical nonprofit, government and business experience while in school. See undergraduate coordinator for more information.

Capstone
Each student in the major will complete a portfolio of work in URST 498.

Transfer Policies
Transfer students are required to consult with an academic advisor from the Greenspun College of Urban Affairs' Student Advising Center. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

Advisement
Upon acceptance as a major, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure orderly progress toward the degree, the
The faculty of the School of Public Policy and Leadership strongly suggest that majors see an advisor at least once each year, preferably every semester. Upon acceptance as a major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs' Student Advising Center.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Advising Center can be reached at 702-895-1009 or urbanaffairs@unlv.nevada.edu or may be visited in person on the 4th Floor of Greenspun Hall.

**Admission to the Major**

Minimum GPA: 2.00

12 credits of university-level work.

**Public Administration - Fire Safety Administration Concentration (BSPA)**

Please see the Public Administration web page at sepa.unlv.edu/ for information about department programs, faculty and facilities.

Please see advising information at the Undergraduate Advising at urbanaffairs.unlv.edu/advising/.

**Accreditation**

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

**Learning Outcomes**

1. **MPSO 1.** List the legislation and identify relevant case law that shapes public personnel policies.
   - MPSO 2. Identify the different personnel systems that operate in public organizations.
   - MPSO 3. Explain the different theories of motivation.
   - MPSO 4. Differentiate elements of budgetary systems.
   - MPSO 5. List and explain the stages of the budgetary process.

2. **Application of Quantitative and Qualitative Techniques to Policy, Programs, and Decisions**
   - AQQT 1. Identify and explain the stages of the policy process.
   - AQQT 2. List decision-making techniques used in the public sector.
   - AQQT 3. Communicate both orally and written material in a clear, concise, and logical manner to permit the information to be used for decision-making.
   - AQQT 4. Input data into standard statistical and informational computer programs.
   - AQQT 5. Collect information from a variety of sources and synthesize the material to aid in making management, program, and policy decisions.

3. **Understanding of the Public Policy and Organizational Environment of Public Service**
   - PPOE 1. Identify and explain the components of our constitutional system of government including
federalism and intergovernmental relations.
- PPOE 2 Identify and explain the role of leadership in organizations.
- PPOE 3 Identify the most current organizational frameworks.
- PPOE 4 Identify the best practices in management.
- PPOE 5 Identify the elements of the historically important theories of public administration.

4. Ethics
- E 1 Explain the ethical foundation and perspectives underlying public administration and apply them at both the organizational and personal level.

5. Fire Safety
- FS 1 Explain factors that shape fire research and fire preservation and tools used for fire prevention.
- FS 2 Identify and apply effective theories and practices of fire administration.

University Graduation Requirements

Please see Graduation Policies for complete information

Public Administration - Fire Safety Administration - Total: 120 Credits

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:

Humanities
- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies

- COM 216 - Survey of Communication Studies

Social Sciences
- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 436 - Sociology of Law
- CRJ 438 - Social Inequality and Crime
- CRJ 469 - Psychology and the Legal System
- CFT 150 - Personal Growth
- CFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

Life and Physical Science
- ENV 101 - Introduction to Environmental Science

Multicultural
- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- CFT 225 - Multicultural Issues and Families

International
- CRJ 407 - Law in Non-Western Societies
- CRJ 411* - Comparative Criminal Justice Systems
- URST 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

In addition

Incoming freshmen are strongly encouraged to join a themed Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connections with peers, improved student
engagement and involvement on campus, increased satisfaction with the college experience.

General Education Requirements - Subtotal: 36-40 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

Constitutions - Credits: 4-6

Mathematics - Credits: 3

- MATH 120 - Fundamentals of College Mathematics
- MATH 120 - Fundamentals of College Mathematics

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities
  - One 3-credit course in fine arts:
    - ART 135 - Photography I
    (see note 2 below)
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must have a lab.

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students

Major Requirements - BSPA in Public Administration - Fire Safety Administration - Subtotal: 84 Credits

Public Administration Core Requirements - Credits: 24

- URST 250 - Urban Government Administration
- URST 400 - Public Organizations in an Urban Setting
- PUA 410 - Research Methods for Public Administration
- PUA 422 - Leadership of Public Bureaucracies
- URST 423 - Ethics in Urban Studies
- PSY 350 - Introduction to Industrial and Organizational Psychology

Public Administration Electives - Credits: 12

Select 4 Courses from the Following:

- PUA 250 - Local Government Administration
- PUA 403 - Risk Management in the Public and Nonprofit Sectors
- PUA 404 - Risk Assessment and Risk Management
- PUA 424 - Fraud, Waste, and Abuse in Public and Nonprofit Organizations
- URST 425 - Public Resources Management & Analysis
- URST 441 - Intergovernmental Relations in Urban Studies
- URST 450 - Policy Impact and Solutions

Fire Science Management - Credits: 33

(see note 3)
Advanced Fire Safety Courses - Credits: 15
(see note 4)

Electives - Credits: 4

Total Credits: 120

Notes

1. Specific restrictions on courses fulfilling this requirement exist. See the General Education Core Requirement section of this catalog for additional information.

2. Students who have completed an AAS degree in Fire Science Management from CSN may transfer credits from ENG 101 and ART 135, in satisfaction of the requirements that they take ENG 101 and ART 135.

3. Students who have completed an AAS degree in Fire Science Management from CSN (or a comparable degree from another institution), may transfer into UNLV 33 of the 42 Fire Science course hours: FS 101B, 110B, 111B, 121B 125B, 210B, 235B, 244B, 245B, 260B, 261B, 262B, 263B.

4. These courses are offered through Cogswell College Distance Education Program (associated with National Fire Academy) or as special topics courses approved and sponsored by the Department of Public Administration. Courses currently approved include: FS 342, FS 344 FS 355, FS 357, FS 486.

ENV 101 - Introduction to Environmental Science
Introduction to the relationship of humans and the environment. Selected aspects of current thinking and research concerning the impact of industrialization and urbanization on environmental quality, including the population explosion; the potential decline of the affluent society by the depletion of natural resources; the pollution of air, land surface and water; the public agencies and policies designated to solve environmental problems.

Credits: 3

ENV 105 - Experiential Learning
Participation in a project or supervised study of an environmental topic outside the traditional classroom situation.

Credits: 1-3

Notes: Must be prearranged with faculty approval. May be repeated to a maximum of six credits.

ENV 202 - Environmental Regulations
Study of the federal and state environmental laws covering EPA, DOT, and OSHA regulations which apply to hazardous materials, substances, and hazardous wastes. The Clean Air and Clean Water Acts also included.

Credits: 3

Prerequisites: CHEM 220

ENV 206 - Introduction to Climate Change
Explores the range of issues associated with the current climate change debate. Students will learn the current state of climate science, understand the data and models that lead the scientific community to conclude that climate change is happening, that humans are a significant cause, and that climate change is expected to continue over the next century. Examine potential solutions to climate change.

Credits: 3

ENV 220 - Introduction to Ecological Principles
Introduction for environmental studies students to the major ecological principles at work in the environment. Focuses not only on these principles, but also on understanding the processes that underlie them.

Credits: 3

ENV 350 - Sustainable Urban Planning and Design
Examines methods for organizing the structure and function of cities, including land use, buildings, and infrastructure, in order to bring them into greater harmony with natural surroundings. Also focuses
on understanding how to reduce the ecological impacts of the urban footprint and to better understand urban connections to natural resources.
Credits: 3
Prerequisites: ENV 101, ENV 206.

**ENV 377 - Environmental Economics**  
(Same as ECON 307.) Economics of environmental quality and resource development. Consideration of public policies to account for environmental pollution to air, water, and land resources.  
Credits: 3
Prerequisites: Junior standing and ECON 102 or ECON 190.

**ENV 407 - Environment and Society**  
(Same as SOC 407.) Focuses on the conflict between private rights and the public interest and the extent to which this conflict affects society in the environmental arena.  
Credits: 3
Prerequisites: SOC 101 or SOC 102.

**ENV 420 - Environmental Impact Analysis**  
Detailed language and intent of the National Environmental Policy Act. Case studies used as the vehicle for presenting detailed aspects of Environmental Assessments and Environmental Impact Statements.  
Credits: 3
Prerequisites: ENV 410.

**ENV 430 - Land Use Management**  
(Same as AAL 430.) Planning, implementation, and evaluation of land use covering both non-urban and urban situations. Emphasis on sustainable use with a focus on conservation of valuable terrestrial resources as well as energy. Constraints related to individual property rights and distribution of wealth treated.  
Credits: 3
Prerequisites: ENV 101.

**ENV 433 - Water Resource Institutions, Management and Policy**  
Credits: 3
Prerequisites: ENV 101 or permission of the instructor.

**ENV 470 - Energy Economics**  
Covers multiple theoretical and empirical topics involving the economics of energy, and issues of energy demand, supply, prices, environmental consequences of consumption and production, and policies affecting energy decision-making and effects. Examines current and historical market trends, conditions, and performance, with emphasis on project cost, revenue forecasting, and reserve analysis.  
Credits: 3
Prerequisites: ECON 102 or equivalent course.

**ENV 490 - Seminar in Environmental Studies**  
Prepares majors for careers as environmental professionals. Includes presentations by specialists in the field of Environmental Studies, as well as instruction on job search strategies and resume and interview preparation. Encourages students to seek career opportunities by attending lectures, participating in community environmental activities, and writing reports on experiences.  
Credits: 2
Prerequisites: Upper-division standing.  
May be repeated to a maximum of four credits.

**ENV 492 - Undergraduate Research**  
Collaboration with a faculty member on a specific environmental problem.  
Credits: 1-3
Prerequisites: Two years of environmental studies and consent of instructor.  
May be repeated to a maximum of six credits.
ENV 498 - Seminar in Environmental and Public Affairs
Senior capstone course integrates and deepens student understanding of key assumptions, issues and problems in this area. Familiarizes students with methodologies for designing, conducting and presenting effective research, while exposing students to seminal readings & important studies. Also explores differing approaches to the resolution and management of major public issues. 
Credits: 3
Prerequisites: Senior standing and admission to the ENV major.

ENV 499A - Senior Thesis Environmental Studies
Each class member develops a thesis topic, outline, basic bibliography, secures an advisor, and completes a prospectus.
Credits: 3
Prerequisites: Senior standing and consent of instructor.

ENV 499B - Senior Thesis Environmental Studies
Using the material developed in ENV 499A, each class member writes and presents a thesis.
Credits: 3
Prerequisites: ENV 499A.

LCE 230 - Introduction to Leadership Experience
Encourage analyzing of responsibilities and commitment in the context of leadership. An understanding leadership as a process, rather than a position will be developed and ways this varies from traditional leadership theories. Theories, concepts, and skills will be explored and will be asked to apply this knowledge to their own leadership philosophy.
Credits: 3
Prerequisites: LCE 230

LCE 231 - Ethical Leadership Experience
A survey of fundamental leadership theory and skills. Students will apply knowledge gained from the course directly to their roles as leaders on and off campus.

Credits: 3
Prerequisites: LCE 230.

LCE 381 - Global Leadership
Learning how to leading in a dynamic 21st century world means thinking broadly about diversity for leadership positions in a global world. Focuses on improving personal leadership skills and emphasizing the importance of leading consistently with the highest ethical principles and values.
Credits: 3
Prerequisites: LCE 230

LCE 382 - Leadership as Social Change
Leading in a dynamic 21st century world requires that leaders think broadly about issues related to social justice. Focuses on improving personal leadership skills and emphasize the importance of leading with the highest ethical principles and values.
Credits: 3
Prerequisites: LCE 230

LCE 385 - Conflict and the Role of Leadership
Introduction of concepts, theory and practice of the role of leader in conflict resolution, decreasing community conflict and understanding interpersonal conflict and the applications of these to historical and current leadership situations, specifically for the development of skills in mediation and a personal style of conflict resolution.
Credits: 3
Prerequisites: LCE 230

LCE 386 - Leadership, Facilitation, and Training
Develop core competencies in designing and facilitating structured group workshops. Students will explore and experience all aspects of a group workshop including conception of an idea through facilitation and evaluation. Multiple learning methods will be used including readings and lectures, however a large emphasis will be placed on experimental learning.
Credits: 3
Prerequisites: LCE 230

**LCE 387 - Leadership Capstone Experience**
Explore and develop concepts of effective leadership as they relate to personal development. An experiential learning climate which includes a strong base knowledge of leadership theory including the role of values, ethics, communication, group dynamics, and diversity.
Credits: 3
Prerequisites: LCE 230 and LCE 231

**LCE 388 - Leadership Internship**
Students enrolled in this internship course will further develop their knowledge and skills in leadership through practical experiences. It requires students to complete 100 (3 credits) clock hours of work onsite, either at UNLV or at an approved organization or community agency.
Credits: 3-6
Prerequisites: LCE 230 and LCE 231.
Notes: Students must apply prior to enrolling. Internship experience may be repeated twice for no more than 6 credits, however only 3 credits will apply to minor.

**LDE 314 - Leadership and Global Engagement**
Considers the ways in which leadership theory and practice are changing in response to an increasingly globalized context. Examination of power, diversity, and systems in a variety of social institutions including sustainability, politics, media, the labor market, and security and conflict in a global environment.
Credits: 3
Prerequisites: Minimum grade of C in LDE 201 and LDE 202.

**NRES 411 - Environmental Law**
Historical discussion of the development of environmental legislation, with particular attention to major public laws. Examines the interpretation, regulation, and developing court interpretation of selected public laws. Major emphasis on the environment as a system and understanding the broad concepts involved in protecting it using the laws enacted by Congress.
Credits: 3
Prerequisites: ENV 101 or PSC 101.

**NRES 423 - Soil Science**
Understanding and application of principles of soil science. Emphasis on the relationship of soil characteristics to land use, plant growth, and ecosystem health/stability. Topics include soil genesis, soil chemistry, soil water relations, field soil characterization, soil sampling, standard physical and chemical lab methods of soil analysis, and soil mapping.
Credits: 4
Prerequisites: ENV 101.

**NRES 432 - Advanced Environmental Toxicology**
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.
Credits: 3
Prerequisites: ENV 201 or CHEM 201.

**PUA 250 - Local Government Administration**
American local governments have changed tremendously over the years. Constantly evolving and always colorful, they provide an opportune research setting. Provides an in-depth study of the political processes and administrative procedures used in local governments. Comparative analysis of relevant actors and strategies across communities is incorporated.
Credits: 3
Prerequisites: URST 241

**PUA 403 - Risk Management in the Public and Nonprofit Sectors**
The purpose of this course is to look at risk from a variety of perspectives. Students learn to analyze...
and manage risk, as well as how to integrate risk assessment methods into public and nonprofit management. The course also explores policy and management implications of failing to manage risk. Credits: 3
Prerequisites: URST 241

PUA 404 - Risk Assessment and Risk Management
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. Credits: 3
Prerequisites: URST 241

PUA 410 - Research Methods for Public Administration
Emphasizes research tools for monitoring public sector administrative programs and program impacts. Gives attention to the special applications of data collection and analysis when data is collected from public sector agencies and governmental sources or consists of program measurements in order to monitor agency activity and program impacts. Credits: 3
Prerequisites: Junior standing.

PUA 422 - Leadership of Public Bureaucracies
Provides an overview of different perspectives and theories of leadership and discusses a new model of leadership for the public sector. Focus is given to leadership functions in response to the current challenges facing bureaucracies. Credits: 3
Prerequisites: URST 241

PUA 424 - Fraud, Waste, and Abuse in Public and Nonprofit Organizations
Provides an introduction to the basic concepts of fraud, waste and abuse in public and nonprofit organizations. The course examines ways to recognize, address, and examine fraudulent activities at different organizational levels and the impact of the Sarbanes-Oxley Act on public and nonprofit organizations. Credits: 3
Prerequisites: URST 241

PUA 490 - Seminar in Public Administration
Synthesis of administrative concepts through an examination of selected topics and case studies. Students prepare research projects for analysis by the seminar group. Credits: 3
Prerequisites: Junior or senior standing.

PUA 498 - Independent Study
Students work with a member of the public administration faculty on an area of concern to public administration and prepare a research paper. Credits: 3
Prerequisites: Six credits in PUA.
Urban Studies Major

Urban Studies - Bachelor of Science (BS)

Please see the Urban Studies web page at https://www.unlv.edu/publicpolicy for information about department programs, faculty and facilities. Please see advising information at the Undergraduate Advising at urbanaffairs.unlv.edu/advising/. Degree worksheets and 4/5-year plan for the major are available at https://www.unlv.edu/degree/bs-urban-studies.

Accreditation

Institution - Northwest Commission on Colleges and Universities www.nwccu.org

Learning Outcomes

Upon completing an undergraduate degree program in Urban Studies, a graduate will be able to:

- Examine whether an organization or community meet multiple conditions of sustainability.
- Characterize the roles of individuals and organizations in policy and governance.
- Produce analyses that demonstrate information literacy and numeracy.
- Communicate data needs and analyses to multiple audiences to support decision-making processes.
- Apply knowledge and skills required for successful collaboration.

University Graduation Requirements

Please see Graduation Policies for complete information.

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:

Seminars

- First-Year Seminar
- GSC 100 - First Year Experience Seminar
- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities
*required course for all majors in Greenspun College of Urban Affairs

Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

Life and Physical Science

- ENV 101 - Introduction to Environmental Science

Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- CFT 225 - Multicultural Issues and Families
- URST 405 - Diversity in Urban America

International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411* - Comparative Criminal Justice Systems
- URST 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

Urban Studies Degree Requirements - Total: 120 Credits

General Education Requirements - Subtotal: 34-43 Credits

First-Year Seminar - Credits: 2-3
- GSC 100 First Year Experience Seminar
  English Composition - Credits: 6
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: (Fulfilled by Major Requirements)
- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions - Credits: 4-6

Mathematics - Credits: 3
- MATH 120 Fundamentals of College Mathematics

Distribution Requirement - Credits: 18-19

Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

Multicultural and International
Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: http://facultysenate.unlv.edu/students.

Major Degree Requirement - BS in Urban Studies - Subtotal: 39 Credits

**Urban Studies Core Requirements - Total Credits: 18**
- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities
- URST 241 - Governance in the United States: An Urban Focus
- URST 301 - Theories of Urban Communities
- URST 303 - Introduction to Urbanization & Demography
- URST 305 - Data Analysis for Urban Studies
- URST 498 - Capstone in Urban Studies

**Additional courses in Urban Studies - Major Electives Requirements - Total Credits: 21**
Select 21 credits from the following list, 12 credits of the 21 credits of Major Electives should be from Upper Division Classes:
- URST 101 - Brookings: Introduction to Public Policy
- ENV 206 - Introduction to Climate Change
- URST 310 - Introduction to Urban Policy Analysis
- URST 400 - Public Organizations in an Urban Setting
- URST 405 - Diversity in Urban America
- URST 410 - Environmental Policy in Urban Settings
- URST 423 - Ethics in Urban Studies
- URST 425 - Public Resources Management & Analysis
- URST 427 - Data Visualization for Urban Studies
- URST 441 - Intergovernmental Relations in Urban Studies
- URST 442 - Brookings: Metropolitan Policy
- URST 450 - Policy Impact and Solutions
- URST 480 - Geographic Information Systems for Socioeconomic Analysis & Environmental Management
• URST 493 - Independent Study in Urban Issues
• URST 495 - Internship in Urban Studies
• URST 496 - Special Topics in Urban Studies

Electives - Credits: 38 - 47

Total Credits: 120

Notes

* GSC 300 is a required course for all majors in Greenspun College of Urban Affairs. In addition, must complete at least 42 credits at the upper division level to graduate.

**Urban Studies**

**URST 205 - Environment and Development**
Many environmental issues faced by developing countries differ fundamentally from those familiar to Americans. Discovers interactions between development, population growth and the environments and evaluates the value of possible interventions.
Credits: 3
Notes: Satisfies International Requirement.

**URST 241 - Governance in the United States: An Urban Focus**
This course will use a diverse set of learning experiences to present a general introduction to the principle components of governance in the United States. Completion of this course aids the student in understanding the relationship between individuals and their governments (with a focus on local government).
Credits: 3
Notes: Satisfies U.S. Constitution Requirement.

**URST 250 - Urban Government Administration**
Urban governments have changed tremendously over the years. Constantly evolving and always colorful, they provide an opportune research setting. Provides an in-depth study of the political processes and administrative procedures used in urban governments. Comparative analysis of relevant actors and strategies across communities is incorporated.
Credits: 3
Prerequisites: URST 241
Notes: (Satisfies U.S. Constitution requirement.)

**URST 301 - Theories of Urban Communities**
An introduction to urban communities and to the field of urban studies. Students will learn some of the major concepts in the field and will study the works of leading scholars. Students will approach cities from a number of disciplines not only through the readings but through observations and research.
Credits: 3
Prerequisites: URST 241

**URST 303 - Introduction to Urbanization & Demography**
Provides a basic understanding of the issues, challenges, and opportunities in urbanization process. Explores the causes and impacts of urbanization focusing on population dynamics and local economic growth. Forms and changes of cities beyond urbanization will be discussed and the roles of public policy and planning actives.
Credits: 3
Prerequisites: URST 241 and URST 301

**URST 305 - Data Analysis for Urban Studies**
Introduces majors in urban studies to the joys of exploring complex issues with data. You will learn practical skills related to statistical operations and their applications to urban questions. You will also learn how to use graphs, tables and statistics to examine past or future decisions.
Credits: 3
Prerequisites: MATH 120 or higher and URST 241.

**URST 310 - Introduction to Urban Policy Analysis**
Introduction to the "who, what, when, where, and why" of urban public policy and analysis. Examines policy making process, including federal, state, and intergovernmental decision making, and policy
dilemmas in areas including health care, community development, and urban environment. Teaches basic urban policy analysis skills and decision processes.
Credits: 3
Prerequisites: URST 241 or PUA 241

URST 400 - Public Organizations in an Urban Setting
Public sector organization and performance in urban settings. Attention given to internal characteristics and dynamics and external public sector relations.
Credits: 3
Prerequisites: URST 241

URST 405 - Diversity in Urban America
This course will examine the role of race and ethnicity in urban issues. Urban issues to be covered include: immigration, citizenship and voting, communication networks, family types, health and wellness, housing, homelessness, crime, poverty, and education.
Credits: 3
Prerequisites: URST 241
Notes: Satisfies the Multicultural Requirement.

URST 423 - Ethics in Urban Studies
Exploration of ethical issues in urban settings. Examines philosophical foundations of ethics as well as contemporary case studies of ethical problems such as gift giving, nepotism, privacy and secrecy, whistleblowing activity and protections. Attention is given to codes of ethics and training for urban administrators.
Credits: 3
Prerequisites: URST 241

URST 425 - Public Resources Management & Analysis
Study of the budgeting process and politics of budgeting in executive agencies, with special attention to the policy-making phase of the budget cycle. Agency interactions with the legislative branch and the chief executive also considered.
Analysis of alternative revenue sources and the role of government in the economy.
Credits: 3
Prerequisites: URST 241

URST 440 - Introduction to American Environmental Thought
Required readings include selected seminal works from environmental studies literature, primary documents from American history, and essays by prominent historians and environmental critics. We will discuss pertinent questions concerning the human relationship to the natural world, how that relationship has evolved over time, and what the implications are for the present and future of American society and culture.
Credits: 3
Prerequisites: ENV 101.

URST 441 - Intergovernmental Relations in Urban Studies
Introduction to concepts and issues of intergovernmental relations. Emphasis on the relationships among national, state, and local governments; the grant-in-aid system; and revenue sharing among different units of government. Explores intergovernmental relations with emphasis on contemporary policy issues, including emergency response, education policy, social services, and economic development.
Credits: 3
Prerequisites: URST 241

URST 442 - Brookings: Metropolitan Policy
Course covers policy topics facing metropolitan America with emphasis on the Southwest. Students examine economic, demographic, and technological challenges to understand how communities may be more inclusive, economically competitive, and sustainable.
Credits: 3
Prerequisites: URST 101 or URST 241
Notes: May be repeated to a maximum of six credits, but can only be used one time for
Brookings Minor. Please verify that all credits will apply towards your degree.

**URST 450 - Policy Impact and Solutions**
Examines the policy making process in terms of its governmental structure within an urban setting. Different theoretical perspectives concerning policy making are explored.
Credits: 3
Prerequisites: URST 241

**URST 480 - Geographic Information Systems for Socioeconomic Analysis & Environmental Management**
To build a fundamental understanding of Geographic Information Systems & Science for the application to socioeconomic analysis and environmental management in an urban setting.
Covers fundamental concepts and technical skills including: the nature of geographic data, database development and management, use of spatial information.
Credits: 3
Prerequisites: URST 305 and Junior or Senior standing.

**URST 493 - Independent Study in Urban Issues**
Supervised advanced study on an urban or environmental topic. Offered on an individual basis and with approval of instructor.
Credits: 1-3
Prerequisites: Declared Major in College of Urban Affairs and Department consent.

**URST 495 - Internship in Urban Studies**
Practical approaches to urban issues by working under faculty direction as interns with local, state, and federal agencies concerned with profit and non-profit entities, the environment, or with private research and business organizations.
Periodic and final reports part of the internship. S/F grading only.
Credits: 1-6
Prerequisites: Urban Studies major, upper-division status, 2.50 GPA.
May be repeated to a maximum of six credits.

**URST 496 - Special Topics in Urban Studies**
Analysis of selected issues of timely significance.
Topics specified in the class schedule.
Credits: 3
Prerequisites: Urban Studies Major and consent of instructor.
May be repeated to a maximum of six credits.

**URST 498 - Capstone in Urban Studies**
This course is intended to provide undergraduate students an opportunity to integrate knowledge from previous Urban Studies courses as well as refine both intellectual and professional skills through quantitative investigations of urban questions.
Credits: 3
Prerequisites: URST 303 and URST 305

May be repeated to a maximum of six credits.
School of Social Work

Purpose and Focus
The objective of the Bachelor of Social Work degree is to prepare students for beginning level generalist social work practice.

Program/Learning Outcomes
Upon completion of the Bachelor of Social Work degree, BSW students will:

1. Demonstrate ethical and professional behavior
2. Engage diversity and difference in practice
3. Advance human rights and social, economic, and environmental justice
4. Engage in practice-informed research and research-informed practice
5. Engage in policy practice.
6. Engage with individuals, families, groups, organizations, and communities.
7. Assess individuals, families, groups, organizations, and communities.
8. Intervene with individuals, families, groups, organizations, and communities.
9. Evaluate practice with individuals, families, groups, organizations, and communities.

Bachelor of Social Work Systematic Outcome Measures
The School of Social Work assesses outcomes through course outcome measures, exit surveys, field evaluation, alumni surveys and successful completion of the Social Work Licensure Exam.

Accreditation
Northwest Commission on Colleges and Universities
Council on Social Work Education (CSWE)

Undergraduate Major
Social Work

Admission to the Major
Minimum GPA: 2.50

Admission Policies
Students will be assigned a Pre-Social Work major (Pre-SW) designation until they have completed the following pre-major requirements:

1. PRE-SW core: SW 101, 315, 410, one course in multicultural or international studies.
2. UNLV general education core courses (46-49 credits total)
   - ENG 101 and 102 and literature (9 credits)
   - U.S. and Nevada constitutions (3-6 credits)
   - PHIL 102 (3 credits)
   - MATH 124 or higher Must earn a C or better (3 credits)
   - Social Science: SOC 101, PSY 101, ANT 101 (9 credits)
   - Fine Arts: Three-credit intro, survey, or appreciation course; approved Multicultural or International studies courses in fine arts may also be used (6 credits)
   - Sciences: BIOL 100 and one three-credit non-lab course (7 credits)
   - Humanities: COM 101 and one three-credit course in Humanities
   - Multicultural or International studies courses in Humanities may also be used (6 credits)

Students may declare PRE-SW as a major at any time during their academic career; however, students must apply for admission to the major during the last semester of their sophomore year. Students may be admitted to the Social Work program upon completion of a minimum of 60 credits of university core, including Pre-SW requirements as outlined above 40 hours of volunteer or work experience in a social service agency, and have a minimum overall GPA of 2.50. Applications for admission are available in the Social Work office and online.
School Policies

Field Practicum Requirements
In order to enroll in field practicum (SW 419 and SW 429), a student must have senior standing (90 credits), have completed the required prerequisites, be admitted to the full major, and have completed an application for field placement in consultation with the field education staff and/or practicum instructors. SW 419 must be taken concurrently with SW 420. SW 429 must be taken concurrently with SW 421.

Advisement
Students who declare social work as a major will be assigned a career advisor by the School of Social Work. Upon declaring social work as a major, a student must contact the Urban Affairs Student Advising Center for academic advising. Students are expected to schedule appointments with both the academic and BSW program advisor at least once per semester in order to plan course scheduling and to monitor professional progress. Social work majors receive three advisors:

1. Career Advisor (Full-time social work faculty member)
2. BSW Program advisor (BSW coordinator)
3. Urban affairs Academic Advisor (academic advisor located in the Student Advising Center)

Career Advisor
Career Advisors are full-time social work faculty members who are available to answer questions that pertain to student life, career choices, graduate degree options, and social work licensing requirements. STUDENTS RECEIVE A CAREER ADVISOR ONCE THEY HAVE BEEN ACCEPTED INTO THE PROGRAM.

BSW Program Advisor
The BSW Program Advisor, known as the BSW Coordinator, is a full-time social work faculty member who assists students in their overall acclimation into the BSW program. The BSW Coordinator helps students select social work courses and related electives. The BSW Coordinator socializes students into the nature of required social work courses. The BSW Coordinator is the point of contact for completing school and university petitions, appeals, independent study requests, and other BSW paperwork. The BSW Coordinator conducts information sessions for prospective BSW students. THE BSW COORDINATOR IS AVAILABLE TO ALL STUDENTS IN THE MAJOR (PRE-SW, SW).

Urban Affairs Academic Advisor
Urban Affairs academic advisors are available to students throughout the course of their entire UNLV matriculation. Urban Affairs advisors are the primary point of contact in the selection of courses. Urban Affairs advisors maintain and record students' academic checklists, assist students in their preparation of BSW application material (e.g., transcript review), review and certify transfer credits, and prepare graduation applications.

Sequencing Policy
The School of Social Work is committed to designing and implementing a course plan that is best for the academic preparation of beginning generalist social workers. Students are, therefore, required to enroll in and complete courses as specified in the course-sequencing policy of the School. Students will not be permitted to take courses out of sequence. Thus, students may have to minimize or eliminate some personal and professional commitments in order to adequately complete the required sequence of courses.

Students who fail a social work core course must re-enroll in the course and obtain a passing grade prior to enrolling in subsequent courses. Prior to enrollment, students with "medical incompletes" must first meet with their instructor and the BSW Coordinator so that a comprehensive review of their situation can be made.
Sequencing of SW 420 and SW 421
Co-enrollment in SW 420 and SW 421 is not permitted. Those students who fail 420 cannot be granted permission to enroll in 421. The assumption is that a student who receives a failing grade is not ready to progress to the next level without first repeating the material not previously mastered.

Exceptions to this policy will be granted only to those students who receive a medical incomplete ("I") in SW 420. Under special permission, these students may complete unfinished assignments while simultaneously enrolled in SW 421.

For students without a medical excuse, unfinished work from 420 must be submitted prior to the date established by the university as the "last day to withdraw from a class and receive a 100 percent refund." (This date is typically within the first week of the semester.) Students who do not meet the deadline will be withdrawn from their second senior block courses (SW 429, 421, and 481).

Courses for Social Work Majors
With the exception of social work electives and multicultural and international courses, SW 401 through SW 495 are for full social work majors only. Non-admitted students and pre-social work majors will not be permitted to enroll in these courses.

Independent Study Policy
The School of Social Work supports students' desires to study one on one with an instructor of their choice when the proposed course is intended to satisfy an elective, ethnic studies, or foreign culture requirement. An independent study intended to fulfill a core school-required course is not permitted. Exceptions should be brought to the attention of the BSW Coordinator via the petition process.

Minimum Competency Policy
The School of Social Work is committed to ensuring that students graduating from our program possess and demonstrate the ability to fulfill their professional obligations to the client, the agency, the community, the society, and the profession of social work. Students are, therefore, required to earn a final semester grade of at least a C (not a C-) for all core social work courses (e.g., all department courses and a couple pre-req/required courses: MATH 124, ECON 180 (or alternatively ECON 102, 103, 104, or 190) SW electives, and SW Independent Study). Students who do not earn the minimum grade must repeat the course. In some courses, the lack of a C grade or better will prohibit students from sequencing into the next set of core classes.

Social Work Major (BSW)

Social Work Major - Bachelor of Science in Social Work (BSW)
Please see the School of Social Work web page at www.unlv.edu/socialwork for information about department programs, faculty and facilities. Degree worksheets and 4/5 year plans for the major are available at www.unlv.edu/degree/bsw

Please see advising information at the School of Social Work Undergraduate Advising at www.unlv.edu/urbanaffairs/advising

Accreditation
Institution - Northwest Commission on Colleges and Universities www.nwccu.org


CSWE Practice Competencies/Learning Outcomes
1. Demonstrate ethical and professional behavior.
2. Engage diversity and difference in practice.
3. Advance human rights and social, economic, and environmental justice.
4. Engage in practice-informed research and research-informed practice.
5. Engage in policy practice.
6. Engage with individuals, families, groups, organizations, and communities.
7. Assess individuals, families, groups, organizations, and communities.
8. Intervene with individuals, families, groups, organizations, and communities.
9. Evaluate practice with individuals, families, groups, organizations, and communities.

University Graduation Requirements
- Please see Graduation Policies for complete information.

Social Work Degree Requirements - Total: 120 Credits

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements.

Seminars

First-Year Seminar
- GSC 100 - First Year Experience Seminar

Second-Year Seminar
- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

*required course for all majors in Greenspun College of Urban Affairs

Constitution

- URST 241 - Governance in the United States: An Urban Focus

Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 469 - Psychology and the Legal System
- CFT 150 - Personal Growth
- CFT 350 - Human Sexuality
- CFT 360 - Contemporary Marriage and Families

Life and Physical Science

- ENV 101 - Introduction to Environmental Science

Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- CFT 225 - Multicultural Issues and Families

International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411* - Comparative Criminal Justice Systems
- URST 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

General Education Requirements - Subtotal: 36-39 Credits

First-Year Seminar - Credits: 2-3

English Composition - Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar - Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions - Credits: 4-6

Mathematics - Credits: 3
• MATH 124 - College Algebra

Distribution Requirement - Credits: 18

Please see Distribution Requirements for more information.

• Humanities and Fine Arts: 9 credits
  o Two courses from two different areas - 6 credits
  o One course in Fine Arts - 3 credits

• Social Science
  o Automatically satisfied by Major requirements

• Life and Physical Sciences and Analytical Thinking: 6-7 credits
  o Science with a lab or non-lab science
  o Analytical Thinking - 3 credits
    • PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required
International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: facultysenate.unlv.edu/students

Major Requirements - BSW in Social Work Major Requirements - Subtotal Credits: 45

• SW 101 - Introduction to Social Work
• SW 315 - Human Behavior and the Social Environment I
• SW 401 - Social Welfare Policy
• SW 410* - Social Work Methods I
• SW 411 - Introduction to Professional Practice
• SW 416 - Social Work Research I
• SW 419 - Field Practicum I
• SW 420 - Social Work Practice I
• SW 425 - Human Behavior and the Social Environment II

• SW 426 - Social Work Research II
• SW 429 - Field Practicum II
• SW 421 - Social Work Practice II
• SW 495 - Capstone Seminar

Additional Requirements - Credits: 9

Select one from the following:

ECON 180 preferred.

• ECON 102 - Principles of Microeconomics
• ECON 103 - Principles of Macroeconomics
• ECON 104 - Current Economic Issues
• ECON 190 - Global Economics

Ethnic Studies/Cross Culture Electives - Total Credits: 6
Note: Approved Multicultural, International Studies courses may satisfy the ETS requirement.

Social Work Electives - Credits: 6

Electives - Credits: 20

Total Credits: 120

Notes

1. In keeping with the Council on Social Work Education's (CSWE) accreditation standards, academic credit for life experience and previous work experience is not given.

2. In satisfying the University General Education Core requirements, all social work majors must take:
**Social Work**

**SW 101 - Introduction to Social Work**
Introduction to the profession of social work within historical context. Emphasis on values, human diversity, social problems, and fields of practice.
Credits: 3
Prerequisites: None

**SW 104 - Perspectives in Aging**
Designed to provide a conceptual and theoretical base for the study of aging. Similarities and differences between minority and majority aged groups examined.
Credits: 3
Prerequisites: SW major.

**SW 315 - Human Behavior and the Social Environment I**
Foundation for understanding human behavior at the levels of individuals, families, and micro-groups. Focus on the normal biol-psycho-socio development and functioning and the impact of social, cultural, and economic forces on individual, family, and group well-being. Introduction to individual, family and group dysfunction also presented.
Credits: 3
Prerequisites: SW 101, SOC 101, PSY 101, ANTH 101.

**SW 401 - Social Welfare Policy**
Focuses on the complex and dynamic nature of the development of social policies with particular attention to the process that occurs in the evolution of a social problem to implementation of social policy.
Credits: 3
Prerequisites: SW 101, SW 315, SW 410* and full major standing only.

**SW 402 - The Effects of War on Individuals and Communities**
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.
Credits: 3
Prerequisites: Junior level status, PSC 101 or SOC 101.
Notes: Satisfies International Requirement. This course is crosslisted with SW 602. Credit at the 600-level requires additional work.

**SW 405 - Group Practice**
Studies the use of groups in social work practice. Includes historical development, group dynamics and theory, group process, the value base of social group work.
Credits: 3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with SW 605. Credit at the 600-level requires additional work.

**SW 410* - Social Work Methods I**
Communication theory and skills applied to social work with individuals, groups, communities, and agencies. Emphasis on self-assessment and diverse urban populations.
Credits: 3
Prerequisites: SW 315.

**SW 411 - Introduction to Professional Practice**
Orientation to professional aspects of beginning social work practice through instruction, role playing, guest speakers, and guided field visits. Additional focus will be on group work, mediation, conflict management, referrals, and ethical issues in working with the clients.
Credits: 3
Prerequisites: SW 410* and admission to BSW Program.

**SW 416 - Social Work Research I**
Scientific approach to knowledge-building for social work practice. Ethical and diversity issues, basic concepts in research methodology, and steps needed to conduct a research project introduced.
Sampling procedures and various research designs, including both quantitative and qualitative methods, with various exercises to provide practice.

Credits: 3
Prerequisites: For full social work majors only, MATH 124.

**SW 419 - Field Practicum I**
Supervised social work practice experience consisting of 240 hours in a social service agency and attendance in weekly field seminar classes.
Provides for an integration and application of social work values, knowledge, and skills from micro- to macro-levels of generalist practice.
Credits: 6
Corequisites: SW 420.
Prerequisites: For full social work majors only. SW 101, SW 315, SW 401, SW 410*, SW 411 and consent of Field Director.

**SW 420 - Social Work Practice I**
Integration and application of intervention strategies for beginning social work practice. Organizing framework, the generalist perspective, which utilizes the problem-solving and strengths approach. Primarily focuses on individuals, families, and groups.
Credits: 3
Corequisites: SW 419.
Prerequisites: For full social work majors only.

**SW 421 - Social Work Practice II**
Integration and application of intervention strategies for beginning social work practice with groups, communities, and organizations.
Credits: 3
Corequisites: SW 429, and SW 495.

**SW 425 - Human Behavior and the Social Environment II**
Provides foundational understanding of behavior and change at the level of organization, community, macro-level groups (e.g. task groups), and culture. Examines human behavior and change in macro systems and the impact of social and cultural forces on organizations, communities and macro-level groups.
Credits: 3
Prerequisites: SW 315.
Notes: For full social work majors only.

**SW 426 - Social Work Research II**
Introduces students to data analysis, descriptive and inferential statistics, computer skills and application of SPSS. Single-subject design and program evaluation included to teach students to systematically evaluate their own practice at all system levels. Exercises assigned to help students practice hands-on SPSS skills and interpret study results.
Credits: 3
Prerequisites: SW 416.

**SW 429 - Field Practicum II**
Supervised social work practice experience consisting of 240 hours in a social service agency and attendance in weekly field seminar classes.
Provides for an appropriate progression in the integration and application of social work values, knowledge, and skills from micro- to macro-levels of generalist practice.
Credits: 6
Corequisites: SW 495.
Prerequisites: SW 419 , SW 420, and consent of the field director.

**SW 441 - Social Work with the Elderly**
Examination of social work practice with the elderly based on critical analysis of theories of the aging process.
Credits: 3
Prerequisites: Consent of instructor.

**SW 460 - Basic Concepts in Social Work Administration**
Concepts of organizational function, structure, and process applied to understanding how organizations constrain or facilitate the delivery of human services.
SW 461 - Seminar: Contemporary Issues in Social Welfare
In-depth examination of current major issues in social programs and policies, and consideration of alternatives.
Credits: 1-3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with SW 661. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

SW 462 - Child Welfare Issues
Study of public child welfare, history, policy, programming, services, and practice. For use in child abuse and neglect, child removal, permanency planning, termination of parental rights, reservation/reunification of families, supportive services to families, current interventive and service delivery systems, home-based preventive services, foster care and adoption.
Credits: 3
Prerequisites: Junior standing.

SW 470 - Community Organization Practice
Studies the use of community organization in social work practice. Includes historical development, community organization dynamics and theory, process, and the value base of community organization practice.
Credits: 3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with SW 670. Credit at the 600-level requires additional work.

SW 471 - Advanced Seminar: Special Problems
Topic to be selected by instructor.
Credits: 1-3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with SW 671. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

SW 472 - Principles of Family Practice
Seminar designed to study the principles, process, and skills required for helpers to assist family members in coping with dysfunction in the family unit.
Credits: 3
Prerequisites: Consent of instructor.

SW 473 - Transitions: Women and Men in the Middle Years
Exploration of the period in the life span known as the “vital years” or “prime time.” Understanding of the social, psychological, physical, and environmental changes that occur in women and men during the middle years.
Credits: 3
Prerequisites: Consent of instructor.

SW 474 - Grant Writing and Management
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.
Credits: 3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with SW 674. Credit at the 600-level requires additional work.

SW 475 - Treatment of Addictions
(Same as CED 450.) 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.
Credits: 3
Prerequisites: Consent of instructor.
Notes: This course is crosslisted with SW 675. Credit at the 600-level requires additional work.

**SW 478 - Global Child Welfare**
Addresses the major challenges faced by children and their families globally and prepare 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 strategy.
Credits: 3
Prerequisites: SW 315, SW 425.
Notes: This course is crosslisted with SW 678. Credit at the 600-level requires additional work.

**SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture**
(Same as PHIL 493.) 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.
Credits: 3
Prerequisites: Consent of instructor.
Notes: Satisfies International Requirement. This course is crosslisted with SW 693. Credit at the 600-level requires additional work.

**SW 494 - Eastern Conceptions and Social Work Practice**
Credits: 3
Prerequisites: Senior standing.
Notes: This course is crosslisted with SW 694. Credit at the 600-level requires additional work.

**SW 495 - Capstone Seminar**
Integration of knowledge, values, and skills relating to social work practice into a capstone generalist experience. The student will demonstrate competencies at the beginning social work practice level.
Credits: 4
Corequisites: SW 429
Prerequisites: SW 419 and SW 420.

**SW 499 - Independent Study**
Intensive study in a specific area of student interest under the direction of a faculty member.
Credits: 1-4
Prerequisites: Consent of instructor.
May be repeated to a maximum of six credits.
**Couple and Family Therapy Undergraduate Program**

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**Purpose and Focus**
The Family Studies minor provides students with a basic understanding of interpersonal development, behavior, and relationships throughout the lifespan. Drawing on theory, research, and experience, this minor provides an interdisciplinary approach to understanding individuals and families. This minor provides specialized knowledge for employment in a variety of educational and social service settings to enhance the development of individuals and families. The minor is designed for students in counseling, communications, health sciences, nursing, policy-making, psychology, recreation, social work, and sociology and for those who want to work with individuals or families. This minor also helps prepare those interested in pursuing graduate studies in counseling and couple and family therapy.

**Accreditation**
Northwest Commission on Colleges and Universities

**Admission Policies**
Students may declare Family Studies as a minor at any time subsequent to being matriculated. Students must have a minimum overall GPA of 2.00 to declare and to graduate with a minor in Family Studies.

**Program Policies**

**Academic Policies**
A minimum overall GPA of 2.00 must be maintained in order to continue in the Family Studies minor.

**Advisement**
Upon acceptance as a minor, each student must meet with an advisor. To ensure orderly progress toward the degree, the faculty of the Couple and Family Therapy Program strongly suggest that minors see an advisor at least once each year, preferably every semester. Family Studies Minor Advising can be reached at 702-895-1392 or kristi.sessions@unlv.edu.