



**The Department of
Graduate Program
Nursing 704: Advanced Pathophysiology and Genetics 1
Fall, 2020
Online Course**

Course credit hours: 3

Pre-Requisites & Co-Requisites: Admission to Graduate Program or consent of MSN or Doctoral Program Director

Course Meeting Times/Location: Asynchronous Online

Office Hours: By Appointment

Primary Contact Method: Email correspondence will be answered within 2 (two) business days (except during holidays). When leaving a message (by phone or email), be certain to identify yourself with your name, course number, contact information and a brief description of the issue.

Catalogue Description: Emphasis on physiologic mechanisms and pathophysiology of disease from a cellular perspective to include growth and development through the life span. Focus on genomics in basic and molecular concepts in biology, human diversity and variation, genetic disorders, influences on chromosome, gene action and inheritance modes.

**Statement of Expected Learning
/Course Objectives:**

At the conclusion of this course the student will able to:

Course Learning Outcome	MSN Program Outcome	FNP Outcome	DNP Program Learning Outcome
1. Describe normal systems physiology at the cellular level.	1. Integrate scientific findings from health and educational fields to include but not limited to nursing, social sciences, and humanities.	1. Competently assess, diagnose, prescribe, evaluate and create a holistic plan of treatment.	1. Provide advanced nursing care to improve patient and population health care outcomes in various direct and indirect settings. <i>DNP Essential I</i>
2. Differentiate normal developmental alterations in physiology from indicators of disease	1. Integrate scientific findings from health and educational fields to include but not limited to nursing, social sciences, and humanities.	1. Competently assess, diagnose, prescribe, evaluate and create a holistic plan of treatment.	3. Provide evidence-based practice through the application of analytical methods, information systems technology, and clinical research <i>DNP Essential I</i>
3. Analyze the pathophysiologic cause of	4. Utilize a systematic, scholarly approach to	4. Assess and monitor teaching/learning needs in	1. Provide advanced nursing care to improve

Course Learning Outcome	MSN Program Outcome	FNP Outcome	DNP Program Learning Outcome
commonly encountered disease processes.	translate, apply, and disseminate evidence based research in clinical or educational settings.	a diverse client population. Practice ethically in the conduct of research, management and clinical professional practice.	patient and population health care outcomes in various direct and indirect settings. <i>DNP Essential I</i>
4. Analyze physiologic responses to disease and their impact on homeostasis.	4. Utilize a systematic, scholarly approach to translate, apply, and disseminate evidence based research in clinical or educational settings.	4. Assess and monitor teaching/learning needs in a diverse client population. Practice ethically in the conduct of research, management and clinical professional practice.	3. Provide evidence-based practice through the application of analytical methods, information systems technology, and clinical research <i>DNP Essential I</i>
5. Identify cultural and ethnic influences on physiologic response and pathologic development.	8. Synthesize social, cultural, financial, legal, ethical, and political influences to advance nursing practice, healthcare, and education.	2. Articulate the professional role, which includes the ethical code of conduct and scope of advanced practice. 4. Assess and monitor teaching/learning needs in a diverse client population. Practice ethically in the conduct of research, management and clinical professional practice.	4. Collaborate with interprofessional teams to meet the healthcare needs of culturally and ethnically diverse individuals and populations. <i>DNP Essential I</i>
6. Evaluate the impact of multisystem pathophysiology on the development and presentation of clinical disease.	7. Employ culturally appropriate skills in communicating and collaborating with interdisciplinary teams to achieve positive outcomes in clinical or educational settings.	3. Develop and monitor comprehensive, holistic plans of care that address the health promotion and disease prevention needs of diverse client populations.	1. Provide advanced nursing care to improve patient and population health care outcomes in various direct and indirect settings. <i>DNP Essential I</i>
7. Incorporate information technology strategies in the learning process.	5. Incorporate health related technologies to deliver, coordinate care, and analyze data to improve outcomes.	3. Develop and monitor comprehensive, holistic plans of care that address the health promotion and disease prevention	3. Provide evidence-based practice through the application of analytical methods, information systems technology, and clinical research.

Course Learning Outcome	MSN Program Outcome	FNP Outcome	DNP Program Learning Outcome
		needs of diverse client populations.	<i>DNP Essential I</i>
8. Apply concepts of genomics, genetic disorders, gene inheritance, and the impact on pathophysiology at the cellular level to the organism expression.	1. Integrate scientific findings from health and educational fields to include but not limited to nursing, social sciences, and humanities.	1. Competently assess, diagnose, prescribe, evaluate and create a holistic plan of treatment.	3. Provide evidence-based practice through the application of analytical methods, information systems technology, and clinical research. <i>DNP Essential I</i>

Required Ebooks, Texts/Readings:

Banasik, J.L. (2018). Pathophysiology 6th Edition; Elsevier/Saunders ISBN: 9780323354813

Assignment Submission Requirements:

Assignment grades and feedback are provided by the course faculty via the Learning Management System, Canvas.

This course is comprised of weekly learning units, all of which will be constructed in the same basic format. Individual units are open at the start of the course and will remain open until the end of the semester. Students are expected to participate on an ongoing basis each week, and work ahead to manage schedule conflicts. **NO EXAMINATIONS OR ASSIGNMENTS WILL BE ACCEPTED LATE** without written approval from the instructor. Holidays do not impact the course, as students have the week for each unit of study. Extensions for assignments must be arranged at least 48 hours prior to the due date and approved by your professor prior to the scheduled time. Vacations, work, or other pre-planned social events are not accepted for extension requests.

For specific dates and times for which assignments are due, refer to the Topical Outline/Course Calendar in the course syllabus and/or Assignments.

Teaching Methods:

An entirely web-based, on-line delivery format will be used. Content is organized into weekly units that will include references, notes, links to pertinent web sites, multimedia illustrations as appropriate, and case studies. Interaction will be asynchronous.

Methods of Evaluation Table

Learning Activities, Assignments	TOTAL GRADE WEIGHT %	COURSE Outcome MET	Program Learning Outcomes	MSN, DNP ESSENTIAL(S) MET
Case Studies	7	5, 6, 7	5, 6, 7	5, 6, 7
Quizzes	12	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8
Integration Review	10	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8
Midterm Exam	30	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8
Final Exam	41	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8	1, 2, 3, 4, 7, 8
Total	100%			

Grading Scale:

Letter Grade	Numerical Grade
A	93-100
A-	90-92
B+	88-89
B	83-87
B-	80-82
C+	78-79
C	75-77
C-	70-74
D+	68-69
D	63-67
D-	60-62
F	<68

Note:

Evidence of satisfactory progress includes maintenance of a minimum 3.0 cumulative grade point average each term. The progress of each student is reviewed each term. Failure to maintain the minimum 3.0 cumulative GPA will result in placement on academic probation. A student must achieve a grade of B (83) or higher in all NURS courses (excluding electives) in the program. A student who receives a grade below (B) in any NURS course (excluding electives) must repeat the course and achieve a (B) or higher.

Students should refer to their specific [program's student handbook](https://www.unlv.edu/nursing/student-resources/handbooks) for detailed information regarding grades required for progression. (<https://www.unlv.edu/nursing/student-resources/handbooks>)

Rounding: Per program policy, final grades will not be rounded. Therefore, an 83.00 is the minimum grade needed to pass this course. Exam and quiz scores will not be rounded.

Assignment Details

Assignment details, including grading rubrics, are available in the assignment on Canvas.

COURSE CALENDAR

Week	Topic	Learning Activities, Assignments	Due Dates
1	Cells & Cell Dysfunction	Case Study	9 – 13

Week	Topic	Learning Activities, Assignments	Due Dates
2	Inflammation & Immunity	Quiz	9-20
3	Endocrine Control	Case Study	9-27
4	Nervous System Control	Quiz	10-4
5	Pulmonary System	Case Study	10-11
6	Cardiovascular System	Quiz	10-18
7	Review	Integration Cases Midterm	10-25
8	Bone & Heme	Case Study	11-1
9	Muscle & Sensory Motor	Quiz	11-8
10	GI & Liver	Case Study	11-15
11	Renal & Fluid Homeostasis	Quiz	11-22
12	Reproductive System	Case Study	11-29
13	Gene Function	Case Study	12-6
14	Cancer & Genetic Damage	Quiz	12-13
15	Review	Integration Cases Final Exam	12-18

University Policies

Public Health Directives

Face coverings are mandatory for all faculty and students in the classroom. Students must follow all active UNLV public health directives while enrolled in this class. [UNLV public health directives](#) are found at <https://www.unlv.edu/coronavirus/health-requirements>. Students who do not comply with these directives may be asked to leave the classroom. Refusal to follow the guidelines may result in further disciplinary action according to the [UNLV Code of Student Conduct](#), https://www.unlv.edu/sites/default/files/page_files/27/StudentConduct-Code.pdf, including being administratively withdrawn from the course.

Academic Misconduct

Academic integrity is a legitimate concern for every member of the University community. We 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 expectations of the Student Academic Misconduct Policy, and are encouraged to always take the ethical path whenever faced with choices. Students enrolling at UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's educational mission. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another person, from the Internet or any other source without proper citation of the source(s). See the [Student Conduct Code](#), <https://www.unlv.edu/studentconduct/student-conduct>.

Auditing Classes

Auditing a course allows a student to continue attending the lectures and/or laboratories and discussion sessions associated with the course, but the student will not earn a grade for any component of the course. Students who audit a course receive the same educational experience as students taking the course for a grade, but will be excused from exams, assessments, and other evaluative measures that serve the primary purpose of assigning a grade.

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 only permitted 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 withdrawal of the student from the course.

Copyright

The University requires all members of the University Community to familiarize themselves with, and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The University will neither protect nor defend you, nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional [copyright policy information](#) is available at <https://www.unlv.edu/provost/copyright>.

Disability Resource Center (DRC)

The [UNLV Disability Resource Center](#) (SSC-A, Room 143, <https://www.unlv.edu/drc>, telephone 702-895-0866) provides resources for students with disabilities. Students who believe that they may need academic accommodations due to injury, disability, or due to pregnancy should contact the DRC as early as possible in the academic term. A Disabilities Specialist will discuss what options may be available to you. If you are

registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours, so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

Final Examinations

The University requires that final exams given at the end of a course occur on the date and at the time specified in the Final Exam schedule. The Final Exam schedule is typically available at the start of the semester, and the classroom locations are available approximately one month before the end of the semester. See the [Final Exam Schedule](https://www.unlv.edu/registrar/calendars), <https://www.unlv.edu/registrar/calendars>.

Identity Verification in Online Courses

All UNLV students must use their Campus-issued ACE ID and password to log in to WebCampus-Canvas.

UNLV students enrolled in online or hybrid courses are expected to read and adhere to the [Student Academic Misconduct Policy](https://www.unlv.edu/studentconduct/misconduct/policy), <https://www.unlv.edu/studentconduct/misconduct/policy>, which states that “acting or attempting to act as a substitute for another, or using or attempting to use a substitute, in any academic evaluation or assignment” is a form of academic misconduct. Intentionally sharing ACE login credentials with another person may be considered an attempt to use a substitute, and could result in investigation and sanctions, as outlined in the Student Academic Misconduct Policy.

UNLV students enrolled in online courses are also expected to read and adhere to the [Acceptable Use of Computing and Information Technology Resources Policy](https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy), <https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy>, which prohibits sharing university accounts with other persons without authorization.

To the greatest extent possible, all graded assignments and assessments in UNLV online courses should be hosted in WebCampus-Canvas or another UNLV-managed platform that requires ACE login credentials for access.

Incomplete Grades

The grade of “I” (Incomplete) may be granted when a student has satisfactorily completed three-fourths of course work for that semester/session, but cannot complete the last part of the course for reason(s) beyond the student’s control and acceptable to the instructor, and the instructor believes that the student can finish the course without repeating it. For undergraduate courses, the incomplete work must be made up before the end of the following regular semester. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the period indicated, a grade of “F” will be recorded, and the student’s GPA will be adjusted accordingly. Students who are fulfilling an Incomplete grade do not register for the course, but make individual arrangements with the instructor who assigned the “I” grade.

Library Resources

Librarians are available to consult with students on research needs, including developing research topics, finding information, and evaluating sources. To make an appointment with a subject expert for this class, please visit the [Libraries’ Research Consultation](https://guides.library.unlv.edu/appointments/librarian) website, <https://guides.library.unlv.edu/appointments/librarian>. You can also [ask the library staff](https://ask.library.unlv.edu/) questions via chat and text message at <https://ask.library.unlv.edu/>.

Missed Classwork

Any student missing class, quizzes, examinations, or any other class or laboratory work because of observance of religious holidays will be given an opportunity during that semester to make up the missed work. The make-up opportunity will apply to the religious holiday absence only. It is the responsibility of the student to notify the instructor within the first 14 calendar days of the course for Fall and Spring courses (except for modular courses), or within the first 7 calendar days of the course for Summer and modular courses, of their intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit the Missed Work policy, under Registration Policies, on the [Academic Policies](https://catalog.unlv.edu/content.php?catoid=29&navoid=7326) webpage, <https://catalog.unlv.edu/content.php?catoid=29&navoid=7326>.

In accordance with the policy approved by the Faculty Senate regarding missed class time and assignments, students who represent UNLV in any official extracurricular activity will also have the opportunity to make up assignments, provided that the student provides official written notification to the instructor no less than one week prior to the missed class(es).

The spirit and intent of the policy for missed classwork is to offer fair and equitable assessment opportunities to all students, including those representing the University in extracurricular activities. Instructors should consider, for example, that in courses which offer a “Drop one” option for the lowest assignment, quiz, or exam, assigning the student a grade of zero for an excused absence for extracurricular activity is both contrary to the intent of the Faculty Senate’s policy, and an infringement on the student’s right to complete all work for the course.

This policy will 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 be reasonably avoided. There should be a good faith effort by both the instructor and the student to agree to a reasonable resolution. When disagreements regarding this policy arise, decisions can be appealed to the Department Chair/School Director, College/School Dean, and/or the Faculty Senate Academic Standards Committee.

For purposes of definition, extracurricular activities may include, but are not limited to: academic recruitment activities, competitive intercollegiate athletics, fine arts activities, liberal arts competitions, science and engineering competitions, and any other event or activity sanctioned by a College/School Dean, and/or by the Executive Vice President and Provost.

Rebelmail

Rebelmail is UNLV’s official email system for students and by University policy, instructors and staff should only send emails to students’ Rebelmail accounts. Rebelmail is one of the primary ways in which students receive official University communications, information about deadlines, major Campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the University. Emailing within WebCampus-Canvas is also acceptable.

Tutoring and Coaching

The Academic Success Center (ASC) provides tutoring, academic success coaching, and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, please visit the [ASC website](https://www.unlv.edu/asc), <https://www.unlv.edu/asc>, or call 702-895-3177. The ASC building is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of SSC A, Room 254. Drop-in tutoring is located on the second floor of the Lied Library, and on the second floor of the College of Engineering building (TBE A 207).

UNLV Writing Center

One-on-one or small group assistance with writing is available free of charge to UNLV students at the [Writing Center](https://writingcenter.unlv.edu/), <https://writingcenter.unlv.edu/>, located in the Central Desert Complex, Building 3, Room 301 (CDC 3–301). Walk-in consultations are sometimes available, but students with appointments receive priority assistance. Students may make appointments in person or by calling the Center, telephone 702-895-3908. Students are requested to bring to their appointments their Rebel ID Card, a copy of the instructions for their assignment, and two copies of any writing they have completed on their assignment.

Optional statement for inclusion in syllabi.

Diversity Statement

As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students, and is committed to aspiring to maintain a Campus environment that values that diversity. 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. Please see [University Statements and Compliance](https://www.unlv.edu/about/statements-compliance), <https://www.unlv.edu/about/statements-compliance>.

A successful learning experience requires mutual respect and trust between the students and the instructor. Accordingly, the instructor asks that students be willing to listen to one another's points of view, acknowledging that there may be disagreements, keep discussion and comments on topic, and use first person, positive language when expressing their perspectives.