



THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF NURSING

Spring 2023

NURS 5319: Advanced Pathophysiology

CRN # 24924, 24925, & 27066

Placement in Curriculum: Graduate Program College of Nursing

Pre-requisites and Co-requisites: Graduate Standing in School of Nursing

Credit Hours: 3 Credit

Course Description: The course builds on knowledge of basic physiology and pathophysiologic processes and examines the process involved in manifestations of altered physiological functioning across the lifespan. The theories, concepts and principles of pathophysiology are emphasized in order that insight and understanding of consequences of changes in physiology may be achieved. Current research is used to explore the most recent data examining disruptions in normal physiological functioning. Systems theory and psychophysiological interrelationships are used to analyze the relationships among disease process, their causative factors and normal physiology. Theoretical formulations and research related to human pathophysiology are integral to the course content.

Course Objectives: At the completion of this course, students should be able to:

1. Analyze the relationships among disease processes, their causative factors and normal physiology utilizing an integrated systems theory approach.
2. Evaluate the relationships among disease process, causative factors and normal physiology utilizing current theoretical formulations and research findings.
3. Evaluate the dynamically changing manifestations of the disease process.
4. Analyze, synthesize and interpret observable or available data in order to explicate pathophysiological process.
5. Analyze the relationships among pathology, normal physiology, positive health practices and health care.
6. Analyze and explicate therapeutic strategies for the acute and chronic pathophysiological process-affecting individuals across the lifespan.

Faculty	Office Hours
Franchesca E. Nunez, PhD, RN Assistant Professor Office: #322 HSSN Building Email: feoberhelman@utep.edu Office Phone #: (915) 747-7226 Cell Phone #: (915) 309-1404 (text only before 8 PM MT)	Virtual and On Campus Office Hours: Mondays 9:00 am to 10:00 am (MT) Virtual meetings via video or telephone may be scheduled as needed.
Mercedes Martinez, DNP, APRN, CPNP-PC Clinical Assistant Professor Office # 320 HSSN Building Email: mhidalgomartinez@utep.edu Office Phone #: (915) 747-8229 Cell Phone #: 915-497-8274 (text please)	On Campus Office Hours: Mondays 11:00 am to 2:00 pm (MT) Virtual Office Hours: Tuesdays & Thursdays 9:00 am to 12:30 pm (MT) Virtual meetings via video or telephone may be scheduled as needed.
Elizabeth Portugal, DNP, CNM, APRN Clinical Assistant Professor Office # 327 HSSN Building Email: eaportugal@utep.edu Office Phone #: (915) 747-6359 Cell Phone #: (915) 373-6215	On Campus Office Hours: Wednesdays 10:00 am to 12:00 pm (MT) Virtual Office Hours: Mondays, Thursdays, & Fridays 8:00 am to 5:00 pm (MT) or by appointment as needed.
William Hull, DNP, APRN, NNP-BC, RNC-NIC, C-ELBW, DCSD (CRN 20318 only) Assistant Clinical Professor Email: wlhull@utep.edu Cell: 915-203-4000 (call/ text before 8 PM MDT)	Virtual Office Hours: By Appointment

Meeting Times: This is a 7-week course offered 100% online, asynchronous format. The course will meet from 3/13/2023 to 4/28/2023.

Required Textbooks: Rogers, J. L. (2023). *McCance & Huether's Pathophysiology: The biologic basis for disease in adults and children* (9th ed.). Elsevier. ISBN: 9780323789875

Additional Resource (Study Guide): Rogers, J. L. (2023). *McCance & Huether's Pathophysiology: The biologic basis for disease in adults and children* (9th ed.). Elsevier. ISBN: 9780323874984

Teaching/Learning Strategies: A variety of teaching/learning strategies will be used to enrich the experience of learners and may include individual and/or group work, reading assignments, videos, case studies, presentations and discussion board postings. The purpose of assignments is to assist the student in understanding and demonstrating understanding of Advanced Pathophysiology.

Course Assignments:

Assignment	Possible Points
Introduction	25
Assignments (x3, each 175 points)	525
Week 2-6 Assessments (x5, each 50 points)	250
Week 7 Assessment	150
Key Learning Points	50
Total	1000

*Two attempts per each assessment required. Last attempt is for a recorded grade.

Grading Scale: A = 900 -1000 B = 800 – 899 C = 700 – 799 D = 600 – 699 F = < 600

Earning an 80% of the points or greater for all activities is expected of students. Students who earn < 80% on activities are given the opportunity to resubmit their work for one additional time, however, the maximum grade for resubmission will be 80% of the points. This only applies to work submitted by the original due date. Students requesting to attempt an assessment for a 3rd time for a maximum grade of 80% must contact the faculty to schedule the attempt.

Seventh edition APA format (citation and references) is required for all activities. Work may be subjected to point deduction independently from the rubric for using non-APA 7th edition format.

Course Participation

Attendance in the course is determined by participation in the learning activities of the course. Your participation in the course is important not only for your learning and success but also to create a community of learners. Participation is determined by completion of the following activities:

- Reading/Viewing all course materials to ensure understanding of assignment requirements
- Participating in engaging discussion with your peers on the discussion boards (grading rubric provided in the “grading information” area of each forum)
- Participating in any scheduled Blackboard Collaborate sessions
- Other activities as indicated in the weekly modules
- Review of assessment feedback within one week of completion

Because these activities are designed to contribute to your learning each week, they cannot be made up after their due date has passed.

Incomplete, Late, and Incorrect Assignment Submission

To receive credit for work, respond to all items, questions, and review rubrics. It is recommended that students verify the appropriate document was submitted. Students will be notified via email if submitted incorrect work (wrong drafts, wrong assignment, missing content, not following directions, content submitted that is not gradable by faculty, assignments in different formats than what was requested). Point deductions for incorrect submissions will incur a deduction (10%). Late work without request for extensions and approved by faculty will not be accepted after the last day of class.

All assignments listed are required for successful completion of this course. If a student anticipates difficulty in completing assignment/s on time, he or she shall notify faculty in advance of the due date and request an extension and provide a new due date. Faculty will make a final decision on the late assignment(s). If a new due date is not provided with the request, the student has 3 days post original due date to submit work. If an assignment is submitted late without prior approval or work is submitted late after the approved extension due date, a deduction of 10% will occur (letter grade).

Expectations & Responsibilities of Students

The majority of learning occurs outside the actual or virtual classroom during discussions with peers, colleagues, and friends; while researching solutions to practice problems or digesting reading material, and when completing assignments. Students share, examine, and clarify information and learning within the virtual classroom setting and in discussion boards. Students are to be well prepared and actively involved in learning. In order to participate, attending to readings and assignments is essential.

Students are expected to:

- Complete the course acknowledgement to avoid delay in receiving graded work and feedback
- Review course updates/announcements and email at least every other day
- Complete all activities and participate in discussion boards as individual work unless otherwise noted
- Communicate clearly and openly with peers and faculty
- Use [netiquette](#) and show respect for the opinions and work of others
- Seek assistance for writing and presentation of materials as needed to meet graduate level standards
- Use resources such as: those provided by faculty, articles from journals that are peer reviewed, evidence based material from established bodies (e.g. associations and organization), videos from known entities (JAMA, Cleveland Clinic).
- Avoid referencing resources that are non-peer reviewed (e.g. personal web sites, homemade YouTube videos, blogs, or Wikipedia) as point deductions may incur.
- Review assessment feedback prior to the due date and time.

Technology Requirements

Course content is delivered via the Internet through the Blackboard learning management system. Ensure your UTEP e-mail account is working and that you have access to the Web and a stable web browser. Google Chrome and Mozilla Firefox are the best browsers for Blackboard; other browsers may cause complications. When

having technical difficulties, update your browser, clear your cache, or try switching to another browser.

If you do not have a word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook and more) for free via UTEP's Microsoft Office Portal. Click the following link for more information about [Microsoft Office 365](#) and follow the instructions.

IMPORTANT: If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP [Help Desk](#) as they are trained specifically in assisting with technological needs of students. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

Students and faculty have 24/7/365 support through Blackboard in a variety of ways. The Online Support Center offers phone, chat, and email contact options:

- Online Support Center <http://admin.utep.edu/Default.aspx?tabid=74092>
- Phone: 1-915-747-4357
- Email Support: helpdesk@utep.edu
- Live Chat: Chat with Us

University resources are also available for students: Monday - Friday from 8:00 am - 5:00 pm MT at the UTEP Help Desk.

Incomplete Grades

Students may receive a grade of an "I" for incomplete work only in exceptional circumstances with the approval of the instructor. Students who expect to take an incomplete must develop with the professor, a written plan including a time line for completing the course assignments. Although University policy requires completion of all required assignments within one year, the SON policy may be more stringent and the instructor may require completion of course requirements within a shorter time period. Late submissions will not be accepted without prior agreement with instructor.

Scholastic Integrity

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

Plagiarism Detecting Software

This course may utilize third party software that has the ability to automatically detect plagiarism on documents submitted for grading. Many of the materials that are posted within this course are protected by copyright law. They may not be copied without a source citation.

Accommodations Policy

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the [UTEP Center for Accommodations and Support Services](#) (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at cass@utep.edu, or apply for accommodations online via the [CASS portal](#).

HIPAA Statement

HIPAA (Health Insurance Portability and Accountability Act of 1996) is a mandatory federal law that protects patient health information. In keeping with HIPAA guidelines, nursing students shall not, under any circumstance; photocopy, fax, or remove from the agency premises, any component of the patient's medical record. Failure to comply with HIPAA policies will result in disciplinary action which may include course failure and/or dismissal from the nursing program. In addition, legal action may be taken against the student.

Clinical Clearances

You must comply with current Graduate School of Nursing Clinical Compliance policies.

Safety Statement

Graduate students are registered nurses in good standing. As such, it is expected that students will use the requisite knowledge, expertise, and education to provide safe and effective nursing care to any patients with whom they come in contact in their roles as graduate nursing students.

University and Course Resources

UTEP provides a variety of student services and support:

Technology Resources

- **[Help Desk](#): Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.**

Academic Resources

- [UTEP Library](#): Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- [University Writing Center \(UWC\)](#): Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.
- [Math Tutoring Center \(MaRCS\)](#): Ask a tutor for help and explore other available math resources.
- [History Tutoring Center \(HTC\)](#): Receive assistance with writing history papers, get help from a tutor and explore other history resources.
- [RefWorks](#): A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.

Individual Resources

- [Military Student Success Center](#): Assists personnel in any branch of service to reach their educational goals.
- [Center for Accommodations and Support Services](#): Assists students with ADA-related accommodations for coursework, housing, and internships.
- [Counseling and Psychological Services](#): Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.

COVID-19 Precautions

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

Course Calendar

Primary Resources for Learning Each Week: Assigned Readings, Diagrams/Figures; PowerPoint Slides, Assigned Videos, and Pre (1st) Assessment

Week	Readings	Course Activities (Submit in Blackboard)
Week 1 3/13-3/19	McCance & Huether, (2023) Chapter 2 Altered Cellular and Tissue Biology Pages 47-95 Chapter 11 Stress and Disease	Course Acknowledgement <ul style="list-style-type: none"> • Due 3/19 at 11:59 pm MDT Self-introduction <ul style="list-style-type: none"> • Due 3/19 at 11:59 pm MDT
Week 2 3/20-3/26	McCance & Huether, (2023) Chapter 3 The Cellular Environment Pages 106-129 Chapter 7 Innate Immunity Topic: Acute and Chronic Inflammation Pages 218-220 Chapter 38 Alterations in Renal and Urinary Tract Function Topics: Acute Kidney Disease Pages 1252-1257 Chronic Kidney Disease Pages 1258-1264 Urinary Tract Infection Pages 1242-1245 Chapter 39 Alteration in Renal and Urinary Tract Function in Children Topics: Glomerulonephritis Page 1275 Nephrotic Syndrome Pages 1275-1276 Urinary Tract Infections Page 1280	Pre and Post Assessment <ul style="list-style-type: none"> • Due 3/26 at 11:59 pm MDT Assignment 1: Clinical Case Study <ul style="list-style-type: none"> • Due 3/26 at 11:59 pm MDT

Week	Readings	Course Activities (Submit in Blackboard)
Week 3 3/27-4/2	McCance & Huether, (2023) Chapter 9 Alterations in Immunity and Inflammation Topic: Autoimmunity Page 265 Chapter 29 Alteration of Hematologic Function Topics: Anemia Pages 925-927 Anemias of Blood Loss (Acute and Chronic) Pages 927-928 Iron Deficiency Anemia Pages 932-934 Anemia of Inflammation Page 934 Disorders of Platelets Pages 967-970 Impaired Hemostasis Pages 973-974 Chapter 30 Alteration of Hematological Function in Children Topics: Iron Deficiency Anemia Pages 990-992 Hemolytic Disease of the Fetus and Newborn Pages 992-993 Sickle Cell Disease Pages 995-1002 Chapter 41 Alterations of Digestive Function Topics: Gastritis Pages 1327-1329 Peptic Ulcer Disease Pages 1329-1333 Inflammatory Bowel Disease Pages 1336-1339 Irritable Bowel Syndrome Pages 1339-1340 Disorders of the Liver Pages 1348-1352 Chapter 42 Alterations of Digestive Function in Children Topics: Gastroesophageal Reflux Disease Pages 1380-1381 Diarrhea Page 1390 Neonatal Jaundice Pages 1390-1391 Inflammatory Disorders – Liver Pages 1392-1393	Pre and Post Assessment <ul style="list-style-type: none"> • Due 4/2 at 11:59 pm MDT

Week	Readings	Course Activities (Submit in Blackboard)
<p>Week 4 4/3-4/9</p>	<p>McCance & Huether, (2023)</p> <p>Chapter 5 Genes, Environment-Lifestyle, and Common Diseases Topics: Alzheimer Disease Page 181 Schizophrenia Page 182 Bipolar Disorder Page 182</p> <p>Chapter 6 Epigenetics and Disease Topic: Epigenetics and Mental Health Page 192</p> <p>Chapter 16 Pain, Temperature Regulation, Sleep, and Sensory Topics: Pain Perception of Infants and Children Pages 476-478 Geriatric Considerations Aging and Pain Page 478 Clinical Description of Pain Pages 480-483 Sleep Pages 489-491 Alteration in Visual Acuity Pages 492-494</p> <p>Chapter 17 Alterations in Cognitive Systems, Cerebral Hemodynamics, and Motor Function Topics: Acute Confusional States Pages 525-526 Alzheimer's Disease Pages 527-532 Vascular Dementia Page 532 Parkinson Disease Pages 547-555</p> <p>Chapter 18 Alterations of the Brain, Spinal Cord, and Peripheral Nerves Topics: Degenerative Disorders of the Spine Pages 583-587 Seizure Disorders and Epilepsy Pages 588-590 Cerebrovascular Disorders Pages 590-596 Primary Headache Syndromes Pages 597-599</p> <p>Chapter 19 Neurobiology of Schizophrenia, Mood Disorders, Anxiety Disorders, Posttraumatic Stress Disorder, and Obsessive Compulsive Disorder</p>	<p>Pre and Post Assessment</p> <ul style="list-style-type: none"> • Due 4/9 at 11:59 pm MDT <p>Assignment 2: Clinical Case Study</p> <ul style="list-style-type: none"> • Due 4/9 at 11:59 pm MDT

Week	Readings	Course Activities (Submit in Blackboard)
	<p>Topics: Mood Disorder – Depression and Bipolar Disorder Pages 623-629 Anxiety Disorders Pages 629-632 Posttraumatic Stress Disorder Page 633</p> <p>Chapter 20 Alterations of Neurologic Function in Children Topic: Epilepsy and Seizure Disorders in Children Page 654</p>	
<p>Week 5 4/10-4/16</p>	<p>McCance & Huether, (2023)</p> <p>Chapter 5 Genes, Environment-Lifestyle, and Common Diseases Topics: Coronary Heart Disease Pages 174-175 Hypertension Page 175</p> <p>Chapter 32 Alterations of Cardiovascular Function Topics: Diseases of the Veins Pages 1059-1061 Hypertension Pages 1061-1066 Atherosclerosis Pages 1070-1072 Peripheral Artery Disease Pages 1072-1073 Coronary Artery Disease, Myocardial Ischemia, and Acute Coronary Syndrome Pages 1073-1084 Heart Failure Pages 1095-1100</p> <p>Chapter 33 Alterations of Cardiovascular Function in Children Topics: Pediatric Hypertension Pages 1125-1126</p>	<p>Pre and Post Assessment</p> <ul style="list-style-type: none"> • Due 4/16 at 11:59 pm MDT
<p>Week 6 4/17-4/23</p>	<p>McCance & Huether, (2023)</p> <p>Chapter 35 Alterations of Pulmonary Function Topics: Acute Respiratory Distress Syndrome Pages 1165-1167 Asthma Pages 1167-1170 Chronic Obstructive Pulmonary Disease Pages 1170-1174</p>	<p>Pre and Post Assessment</p> <ul style="list-style-type: none"> • Due 4/23 at 11:59 pm MDT <p>Assignment 3: Clinical Case Study</p> <ul style="list-style-type: none"> • Due 4/23 at 11:59 pm MDT

Week	Readings	Course Activities (Submit in Blackboard)
	<p>Pneumonia Pages 1176-1178 Pulmonary Embolism Pages 1179-1180 Pulmonary Hypertension Pages 1180-1181 Cor Pulmonale Page 1181</p> <p>Chapter 36 Alterations of Pulmonary Function in Children Topics: Infections of the Upper Airway Pages 1191-1193 Asthma Page 1203 Cystic Fibrosis Pages 1204-1206</p>	
<p>Week 7 4/24-4/28</p>	<p>McCance & Huether, (2023)</p> <p>Chapter 5 Genes, Environment-Lifestyle, and Common Diseases Topics: Breast Cancer Page 178 Colorectal Cancer Page 178 Prostate Cancer Pages 178-179 Diabetes Mellitus Pages 179-180 Obesity Page 180</p> <p>Chapter 12 Cancer Biology Topics: Genomic Hallmarks Pages 338-344 Cellular Adaptations Pages 344-346 Resistance to Destruction Pages 347-354</p> <p>Chapter 22 Alterations of Hormonal Regulation Topics: Alterations of Thyroid Function Pages 693-699 Dysfunction of the Endocrine Pancreas - Diabetes Mellitus Pages 701-713</p> <p>Chapter 23 Obesity and Disorder of Nutrition Topic: Obesity Pages 724-729</p> <p>Chapter 25 Alterations of the Female Reproductive System</p>	<p>Pre and Post Assessment*</p> <ul style="list-style-type: none"> • Due 4/28 at 11:59 pm MDT <p>*The post assessment will include questions from the previous weeks.</p>

Week	Readings	Course Activities (Submit in Blackboard)
	<p>Topics: Delayed or Absent Puberty Pages 768-769 Precocious Puberty Page 769 Primary Amenorrhea Pages 770-771 Secondary Amenorrhea Pages 771-772 Abnormal Uterine Bleeding Pages 772-774 Premenstrual Disorders Syndrome Pages 776-777 Benign Breast Disease and Conditions Pages 803-804 Breast Cancer Pages 804-812</p> <p>Chapter 26 Alterations of the Male Reproductive System Topics: Cancer of the Testes Pages 839-841 Benign Prostatic Hyperplasia Pages 842-844 Cancer of the Prostate Pages 847-853 Sexual Dysfunction – Erectile Dysfunction Pages 853-854</p>	