



Course Title: Pathophysiology of Acute Care

Course Number: RNBS 3303

Spring 2025

Scheduled Class Days and Times: Online

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Office Hours: Via Zoom as needed and by appointment

Instructor's Name: Natalie J. Serrano, MSN, RN, ACUE

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Course Description: This online course focuses on the etiologic, symptomatologic, and pathologic aspects of selected human diseases across the life span. Concepts of health promotion, disease prevention, disease progression, and treatment are approached from a cellular and multi-system perspective. Influences of genetic, ethnic, and cultural variables on human diseases are analyzed. Content aims at stimulating critical thinking for application to nursing practice.

Prerequisites: Registered nurse, Admission to the RN-BSN track

Corequisites: Registered nurse, Admission to the RN-BSN track

Student Learning Outcomes:

Upon successful completion of this course, the student will be able to:

1. Discuss the influence of genetic, ethnic, and cultural factors on health promotion and disease prevention, progression, and treatment.
2. Integrate knowledge from the biological sciences into the study of the pathophysiology of human diseases.
3. Employ select nursing and biomedical research studies in the application of pathophysiologic principles to nursing practice.
4. Correlate the effects of internal and external environmental risk factors with disease development and progression.
5. Discuss the impact of the current body of knowledge in pathophysiology on evidence-based nursing practice.
6. Relate diagnostic test findings to both objective and subjective disease symptoms.

Required Textbooks and Readings: VanMeter, K.C. & Hubert, R. (2023) Gould's Pathophysiology for the Health Professions (7th Ed.). Elsevier.

- The textbook is available from the UT Tyler Bookstore (online @ <https://uttyler.bncollege.com/>) or @ Elsevier <https://evolve.elsevier.com/cs/>
- You may choose whichever of the 3 textbook options you prefer:
 - Paperback ISBN: 9780323792882
 - Binder Ready ISBN: 9780323829809
 - Ebook ISBN: 9780323792905

Special Course Notes: Other than the textbook noted above, no other resources are required for this course. The course does not require an access code to access additional online textbook resources. The course does not require a proctoring service for exams.

Computer Requirements: Access to a current, working computer or laptop with internet access using Firefox or Chrome browser is required for this internet-based course. The Canvas learning system works best using Firefox or Chrome browsers. It is essential to have access to a reliable PC/laptop and internet access for this course.

Internet Instructions: Course modules are online in Canvas (see course calendar). UT Tyler online canvas courses use Java, JavaScript, browser plug-ins, helper application and cookies. Canvas works best using Chrome or Firefox browser. It is essential that you have these elements installed and enabled in your web browser for optimal viewing of the content and functions of your online course content. Lecture videos are optimally viewed in high definition.

- Adobe Reader allows you to view, save, and print Portable Document Format (PDF) files. <http://get.adobe.com/reader/>
- Java Runtime Environment (JRE) allows you to use interactive tools on the web. <http://www.java.com/en/download/>
- QuickTime allows users to play back audio and video files. <http://www.apple.com/quicktime/download/>

Assignments and Weights/Percentage/Point Values

1. Course Exams (5)	70%
2. Interactive Learning Activities	25%
3. Forms & Course Reflection Activity	5%
Total: 100%	

Grading Scale: Specific guidelines and grading criteria for all assignments are in the Modules. Final grades for the course will be determined based upon the following point assignments:

- A - 90-100
- B - 80-89
- C - 75-79
- D - 60-74
- F - Below 60

Final course grades less than 75% are not rounded up. The combined weighted calculation of all course assignments, quizzes, exams, and clinical activities must be at least 75% in order to pass the course.

Grade Appeals: Although the university policy allows 60 days for grade appeals, the School of Nursing follows a stricter timeline of 10 days to facilitate students' timely progression through the curriculum. In the case of extenuating circumstances, please consult the Associate Dean of Academic Affairs for guidance.

Academic Integrity: Cheating of any kind, as defined in Section 8 of the UT Tyler Manual of Policies and Procedures (MOPP) for Student Affairs (<https://www.uttyler.edu/mopp/>), will not be tolerated.

Consequences may include:

- reprimand
- exam failure
- course failure
- expulsion from the Nursing program
- expulsion from the University
- other consequences as assigned

Exam and homework materials, questions, and problems are the intellectual property of faculty, UT Tyler, or publishers.

- These materials may not be distributed without permission.
- Distributing or uploading them to online resources destroys the integrity of the assignment and the course, allowing others an unfair advantage by letting them view the materials.
- Uploading these materials to online resources is a violation of UT Tyler's academic misconduct policies and may result in formal conduct charges.
- Sanctions for uploading or otherwise divulging the contents of these materials can include:
 - a reduced or failing grade on an assignment
 - a reduced or failing grade for the course
 - removal from the Nursing program
 - removal from UT Tyler

Late Policy: 5% will be deducted each day an assignment is past due unless prior arrangements have been made with your course faculty. Extenuating circumstances may apply.

Repeating a Course: Students repeating this course may not use previously submitted assignments nor utilize the same patients for an assignment. Submitting the same or slightly modified assignments from previous semesters is considered self-plagiarism and is subject to academic discipline, including failing the assignment or the course.

Attendance and Make-up Policy: Attendance/participation is expected. Make-up for exams, quizzes, assignments, and missed clinical time is at the instructor's discretion.

Grade Replacement: Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.utt Tyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

Graded Course Requirements Information:

Exams: Exams will be given in Canvas only within the dates and timeframes indicated on the Course Calendar. Exams do not require a proctoring service. Failure to complete an exam within the scheduled day and timeframe will result in "0" points for that exam. Make-up time for an exam will be given at the discretion of faculty. It is recommended that the student take exams on a laptop or PC (not a phone or other device) to avoid technical difficulties. The UTT IT department recommends using Firefox or Chrome for Canvas applications. Class notes and textbooks may be used while completing exams. Students will be able to review questions missed at the completion of the exam. Further exam reviews may be scheduled with faculty within 10 days of an exam, if needed.

Interactive Learning Activities: Interactive Learning Activities (ILAs) will be completed in Canvas and will be available during the dates and timeframes indicated on the Course Calendar. ILAs should be completed while studying each module's topics and before taking the exam for those topics. ILAs can be repeated as many times as desired, prior to the close date and time noted on the Course Calendar, to achieve the maximum score, but they will close at the same time as the exam on those topics. Class notes and textbooks may be used while completing ILAs.

Forms & Course Reflection Activity: Required School of Nursing Forms will be completed at the beginning of the semester, and a brief Course Reflection Activity will be completed at the end of the semester.

Important Course Dates:

Classes Begin: Monday, 02/24/25

Census Date (withdraw without penalty): Friday, 02/28/25

Last Date to Withdraw: Monday, 4/4/25

Please get in touch with your advisor to discuss withdrawing from the course and notify your instructor.

Final exam: n/a

Last day of class: Thursday, 4/18/25

Calendar of Topics, Readings, and Due Dates:

Week begins:	Lecture Topics & Chapters from Gould's Textbook (Lectures are available throughout the course dates)	Interactive Learning Activities (ILAs) & Other Assignments (ILAs may be repeated multiple times before the closing dates/times noted)	Exams (Taken only once and only during dates/times noted)
Monday 2/24	Module 1: <ul style="list-style-type: none"> <input type="checkbox"/> 1-Introduction to Pathophysiology <input type="checkbox"/> 2-Fluid, Electrolyte, & Acid-Base Imbalances <input type="checkbox"/> 24-Complications of Aging 	<input type="checkbox"/> REQUIRED School of Nursing Forms: Located in the "Start Here" Module-Complete by Fri., 2/28 @ 2359 <input type="checkbox"/> Module 1 ILAs: Complete before taking Exam 1 <ul style="list-style-type: none"> Available only until Mon., 3/3 @ 2359 	<input type="checkbox"/> Exam 1 (Module 1 content) <ul style="list-style-type: none"> Opens Mon., 2/24 @ 0800 Closes Mon., 3/3 @ 2359
SPRING BREAK 3/11-3/15			
Monday 3/3	Module 2: <ul style="list-style-type: none"> <input type="checkbox"/> 4-Pain <input type="checkbox"/> 5-Inflammation and Healing <input type="checkbox"/> 6-Infection <input type="checkbox"/> 7-Immunity 	<input type="checkbox"/> Module 2 ILAs: Complete before taking Exam 2 <ul style="list-style-type: none"> Available only until Mon., 3/10 @ 2359 	<input type="checkbox"/> Exam 2 (Module 2 content) <ul style="list-style-type: none"> Opens Mon., 3/3 @ 0800 Closes Mon., 3/10 @ 2359
Monday 3/10	Module 3: <ul style="list-style-type: none"> <input type="checkbox"/> 10-Blood and Circulatory System Disorders <input type="checkbox"/> 11-Lymphatic System Disorders <input type="checkbox"/> 12-Cardiovascular System Disorders 	<input type="checkbox"/> Module 3 ILAs: Complete before taking Exam 3 <ul style="list-style-type: none"> Available only until Mon., 3/24 @ 2359 	<input type="checkbox"/> Exam 3 (Module 3 content) <ul style="list-style-type: none"> Opens Mon., 3/10 @ 0800 Closes Mon., 3/24 @ 2359
Monday 3/24	Module 4: <ul style="list-style-type: none"> <input type="checkbox"/> 13-Respiratory System Disorders <input type="checkbox"/> 14-Nervous System Disorders <input type="checkbox"/> 9-Musculoskeletal System Disorders 	<input type="checkbox"/> Module 4 ILAs: Complete before taking Exam 4 <ul style="list-style-type: none"> Available only until Mon., 3/31 @ 2359 	<input type="checkbox"/> Exam 4 (Module 4 content) <ul style="list-style-type: none"> Opens Mon., 3/24 @ 0800 Closes Mon., 3/31 @ 2359
Monday 3/31	Module 5: <ul style="list-style-type: none"> <input type="checkbox"/> 16-Endocrine System Disorders <input type="checkbox"/> 17-Digestive System Disorders <input type="checkbox"/> 18-Urinary System Disorders 	<input type="checkbox"/> Module 5 ILAs: Complete before taking Exam 5 <ul style="list-style-type: none"> Available only until Mon., 4/18 @ 2359 	
Monday 4/7	Module 6: <ul style="list-style-type: none"> <input type="checkbox"/> 20-Neoplasms and Cancer <input type="checkbox"/> 21-Congenital and Genetic Disorders 	<input type="checkbox"/> Module 6 ILAs: Complete before taking Exam 5 <ul style="list-style-type: none"> Available only until Mon., 4/18 @ 2359 	<input type="checkbox"/> Exam 5 (Modules 5 & 6 content) <ul style="list-style-type: none"> Opens Mon., 4/7 @ 0800 Closes Mon., 4/18 @ 2359
Monday 4/14	Module 7: <ul style="list-style-type: none"> <input type="checkbox"/> Course Reflection <input type="checkbox"/> Canvas closes Thurs., 4/25 @ 2359 	<input type="checkbox"/> Course Reflection Activity: Due Thurs., 4/18 @ 2359	

Artificial Intelligence in course work: Refer to the UT Website for more details @ uttyler.edu - digital learning AI.