

NURS 3366: Pathophysiologic Processes: Implications for Nursing
Spring 2018

Instructor(s):

Regina Urban, PhD, RN-BC, CCRN, CNE

Office: 628-A Pickard Hall

Office Phone: 817-272-2776

Office Hours: Wednesdays, by appointment only.

E-mail: Blackboard email.

If unable to correspond via Blackboard: rurban@uta.edu. Every attempt is made to respond to emails within 24 hours. Please resend your original email if no response is made within that time frame.

Faculty profile: <https://mentis.uta.edu/explore/profile/regina-urban>

Deborah Hughes, MS, RN, CCRN

Office: 616 Pickard Hall

Office Phone: 817-272-2776

Office Fax: 817-272-5006

Office Hours: Thursday, 11:00-12:00

E-mail: Blackboard email

If unable to correspond via Blackboard: dhughes@uta.edu. Every attempt is made to respond to emails within 24 hours. Please resend your original email if no response is made within that time frame.

Faculty profile: <https://mentis.uta.edu/explore/profile/deborah-hughes>

Time and Place of Class Meetings: N3366-001: Wednesdays 1-3:50 pm; room 204 (Pickard Hall)

N3366-002: Thursdays 8-10:50 am; room 104 (Pickard Hall)

N3366-003: Fridays 8-10:50 am; room 106 (College Hall)

Description of Course Content: Pathophysiologic alterations, their interactions, and effects on persons across the life span as a basis for therapeutic nursing interventions. Prerequisite: BIOL 2457, 2458, CHEM 1451.

Student Learning Outcomes:

1. Discuss human anatomical structures, physiologic processes and pathologic alterations that are expressed as diseases of cells, organs and body systems across the lifespan.
2. Describe environmental and genetic factors known to influence disease development.
3. Describe epidemiological, etiological, and risk factors associated with prevention, transmission, restoration, and/or modification of disease processes.
4. Describe specific compensatory mechanisms used by the human body in response to pathophysiologic processes.
5. Relate pathophysiologic functioning of selected processes with the resulting signs and symptoms.
6. Apply knowledge of select pathologic processes in the nursing management of patient diseases across the lifespan.
7. Apply current research findings with evidence-based guidelines for the nursing management of selected diseases.

RECOMMENDED TEXTBOOKS:

Carol Mattson Porth. (2015). *Essentials of Pathophysiology; Concepts of Altered Health States*. (4th ed). Wolters Kluwer. ISBN 9781451190809

For reference *as needed*: any nursing/medical dictionary (examples: Mosby's, Tabers); any anatomy and physiology book; any microbiology book.

COURSE REQUIREMENT:

Students are responsible for reading the syllabus and course schedule and submitting in Blackboard the attestation form for N3366. The due date for submitting this form is listed in Blackboard.

Exams:

There are a total of five exams, each worth 18%. See Class Schedule for their dates.

- Exams 1, 2, 3, & 4 will be given during the first 60 minutes of class, with lecture following the exam. Content on each of these exams is not cumulative.
- Exam 5 is the final exam. Its content is cumulative. Students will be given 1 hour and 45 minutes to complete the final exam.
- All exams are proctored and may be given either in the written (paper) format or on a computer at UTA.
- **See *Exam Rules* further below for exam conduct imperatives.

Quizzes:

There are a total of five quizzes, ***cumulatively*** worth 10% of the final grade. Each quiz is worth 2%. See Class Schedule for their dates and deadlines.

- Quiz questions are configured exactly like the exam questions. Each quiz is due one day prior to each scheduled exam. Quiz #5 is not cumulative and only addresses Cushing's and Addison's disease, Diabetes and GI disorders.
- Each quiz can be taken two times. Students will be given 1 hour to complete each quiz. The last quiz attempt will be counted in the grade book. Any quiz that is not completed prior to the deadline will earn a grade of "0".
- If a computer issue occurs that has interfered with completing or taking the quiz, contact the Help Desk ***and your instructor*** by email ***prior to the quiz deadline***. No more than ***one*** documented computer issue will be allowed per student per semester.
- Faculty must be notified ***prior to the quiz deadline*** of any potential for missing a quiz (unless not feasible due to circumstance, i.e. car accident, hospitalization) and the absence approved. The student must provide written documentation to support the absence (doctor's excuse, obituary, court summons, etc.). Reasons that would constitute an excused absence include emergent situations such as personal illness, illness of a child, critical illness or death of family member, jury duty, legal circumstances, or military commitments that cannot be rescheduled.
- Approved make-up of the quiz will be given within ten days following the original quiz date unless other arrangements are made with the faculty.
- Each student is to do the quizzes on their own. Working through the questions will be ***enormously beneficial*** to understanding course concepts, developing critical thinking skills and being successful on the course exams.

Attendance: At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section I have elected to take attendance but will not factor attendance into the grade.

UTA College of Nursing and Health Innovation Grading Criteria

Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels; see "Student Support Services," below.

All five proctored exams count toward the required minimum exam average of 70.00%. ***Quizzes are not included in this calculation.*** In determining the final course grade for N3366, the average on proctored exams (exams 1-5) will be checked first. If a student achieves a 70.00% with no rounding of the average on the proctored exams, the non-proctored quiz grades will count toward the final course grade. If the

student did not achieve a 70.00% with no rounding of the average on proctored exams, the course grade calculation stops and the grade stands as a D or F as determined by the numerical value from the weighted average on proctored exams.

In addition, there are no opportunities for “make-up” assignments or to earn extra credit in this course.

In order to successfully complete an undergraduate nursing course at UTA, the following minimum criteria must be met:

70% weighted average on proctored exams.

70% weighted average on major written assignments (if applicable).

90% on math test (if applicable).

90% on practicum skills check offs (if applicable).

In undergraduate nursing courses, all grade calculations will be carried out to two decimal places and there will be no rounding of final grades. Grades will be accessible via Blackboard. Letter grades for exams, written assignments and end-of-course grades, etc. shall be:

A= 90.00 - 100.00

B= 80.00 - 89.99

C= 70.00 - 79.99

D= 60.00 - 69.99

The existing rule of C or better to progress remains in effect; therefore, to successfully complete a nursing course, students shall also have a total course grade of 70.00 or greater.

UTA College of Nursing and Health Innovation Progression Criteria

1. Knowledge of pharmacology and pathophysiology are essential to nursing program success.
2. If you are struggling with the course (ie. exam #1 and #2 grades that are below 65%), seek assistance from your faculty or your advisor and strongly consider dropping the course.
3. If you fail the course:
 - a. You are placed on probation and must meet with your academic advisor each semester to develop a success plan
 - b. Admission will be delayed by at least a long semester course (see chart):

Application for	Non-Passing Term	Passing Term	Eligible to re-apply
Fall 2020	Fall 2019	Spring or Summer 2020	Fall 2020
Fall 2020	Spring 2020	Summer 2020	Spring 2021
Fall 2020	Summer 2020	Fall 2020 or Spring 2021	Fall 2021

- c. You must retake the course and earn a grade of “C” or higher
 - d. The failing grade will be used to compute your nursing application/admission GPA
4. If you fail two pre-nursing courses (NURS 3365 or NURS 3366), you are not eligible to start the program for five years. Please refer to the following policies for more information:

Bachelor of Science in Nursing Policies (pre - licensure). Prerequisite and Upper- Division Nursing Program Eligibility Policies:

http://www.uta.edu/nursing/files/UTACON_BSN_Policies.pdf

BSN handbook: http://www.uta.edu/conhi/_doc/unurs/BSN_student_handbook.pdf.

TEACHING METHODS:

1. Lecture and preparation (See Class Schedule & Objectives further below)

Lecture Notes: Lecture notes will be provided on Blackboard. Please download and print them a day or two before coming to class. *If a student enters the course after the first day of class during late registration, they will be responsible for any missed course material. Students will be expected to have prepared for class by studying the notes thoroughly ahead of time.* Note that these notes are only outlines and there may be some material presented in lecture not found in the notes. In these instances students will be required to take notes appropriately. *Although the notes correspond to class lecture, please be aware that if unavoidable circumstances result in not finishing the entire lecture content prior to an exam or in the event of a lecture cancellation, the student will still be held responsible for the content of the notes on the exam. Course instructors reserve the right to adjust the schedule in any way to serve the educational needs of the students enrolled in this course.*

Prep: Prior to each lecture, review the lecture “Prep” that will be available each week on Blackboard. It is designed to assist the student with recalling basic anatomical and physiological concepts in preparation for learning how normal structure and function is affected by the pathological process. Each individual will vary in the intensity of his or her study of the Preps, depending on A&P knowledge of the subject. The less that is remembered and understood about A&P, the more the student will need to study the Prep prior to class.

2. Learning exercises

Case studies, Matching Exercises, Crossword puzzles:

- There will be case studies associated with most of the lecture notes. The case studies require a short response; the answers will be available on Blackboard.
- Matching exercises or crossword puzzles may also be available. These are designed to help with understanding and learning of the course material.
- Each student is **strongly** encouraged to do these additional learning exercises. Working through them will be **enormously beneficial** to understanding concepts and being able to apply them to a variety of situations, thus developing critical thinking skills that are necessary to being successful on the course exams.

BLACKBOARD discussion board /email

- Questions can be asked / answered / discussed on Blackboard with instructor, mentors, and other students.
- Students **must** check Blackboard for messages and important information **on a daily or near-daily basis.**

Post-exam review sessions

- Times will be available, usually one week after each exam, during which students can study copies of **exam answer rationales**. It is **highly** recommended that students take advantage of this feedback as a corrective learning experience.
- **The Exam Rules** (see below) regarding electronic devices, personal belongings and the dress code will apply to these sessions.
- **No note-taking is allowed.**
- During the post-exam review sessions, students may dispute any exam item by completing an exam item dispute form. The faculty member conducting the exam review will consider the issue with the item in conjunction with the course material and item analysis and respond to the student in a timely manner but not in the immediate review setting.

EXAM RULES

Missed exam policy

- Exams are to be taken at the scheduled time, according to the course schedule (as found in the syllabus). **Occasionally** a student may take an exam during a different class time, but only if special permission from the instructor has been granted.
- Faculty must be notified ***in advance*** of any potential for missing an exam (unless not feasible due to circumstance, i.e. car accident, hospitalization) and the absence approved. The student must provide written documentation to support the absence (doctor's excuse, obituary, court summons, etc.). Reasons that would constitute an excused absence include emergent situations such as personal illness, illness of a child, critical illness or death of family member, jury duty, legal circumstances, or military commitments that cannot be rescheduled.
- Approved make-up exams will be given within ten days following the original exam date unless other arrangements are made with the faculty. Format for make-up exams may differ from the regularly scheduled exam. This may be short answer, fill-in-the-blank, essay and/or case study format.
- The final exam ***must not*** be missed unless there is a dire emergency; examples: the student is hospitalized, there is a death in the immediate family, etc. The student will need to provide substantial written documentation of an excusable reason for missing a final.
- If content objectives are not covered in lectures for reasons of time constraint, cancellation of lecture, or other unanticipated obstacles to lecture completion, the content ***will still be eligible for inclusion on the exam.***

Policies on being late for an exam

- **Please arrive in plenty of time to be ready at the hour.** Each student should be in his or her seat & ready to take the exam ***at the hour.***
- Any student who is late for the exam may enter the testing area quietly and begin testing. If a student arrives late for an examination, the student will not be given any additional time to complete the examination.
- If a student arrives late to an examination after the first person has completed their examination, the student will not be allowed to take the examination.

Day of exam information

- ***No sweatshirts, sweaters, jackets, or coats with pockets and/or hoods may be worn*** while testing. Caps must be removed or turned so that the "bill" of the cap is at the back of the head during exams.
- All cell phones, pagers, PDAs, and laptop computers must be turned off and placed at the side of the room upon arrival to the testing room on exam day. **No electronics may be on your person. Having an electronic device on or close to you is considered an example of academic dishonesty and is reportable to the UTA Judicial Affairs Department.**
- All books, notes, backpacks, book bags, and purses must be placed in the classroom and not brought to the computer testing lab.
- Students must come to the testing room for each exam ***with their student ID.*** ID should be kept on the desk at all times and will be checked upon turning in of exams at the end. ***Failure to produce an official student ID will result in the delay of starting the exam as the student procures an ID from the University center. No additional testing time will be allowed.***
- In addition to the student ID, the only items allowable on the desks are pencils. ***No pens allowed.***
- Eating or drinking during exams is not permitted except for candy, lozenges, etc, which must be noise-free.
- No talking is allowed during the exam.

- To ask a question after the exam has been distributed, ***remain in the seat***, raise your hand, and wait till the instructor comes to you. The instructor will answer only questions that do not give away content.
- Students are expected ***to keep their eyes on their computer screen and/or test booklet and not look about the room during exams***. The exam proctor will move you to a different seat if this requirement is not followed.
- Personal head phones or ear buds may not be used during exams.
- Although faculty strives to provide a quiet testing environment there may be noises and distractions in any testing environment that are beyond the control of the exam proctors. If a student feels that the testing environment is unduly noisy or distracting for any reason, it is the responsibility of the student to report this to an exam proctor as soon as possible during the exam so corrective action may be taken. Ear plugs may be provided, but students can provide their own if needed.
- Brief bathroom breaks are allowed at the discretion of the instructor. If a bathroom break is permitted, the student should bring the entire exam packet up to the instructor and retrieve it upon returning. Depending on circumstances, a proctor may need to accompany the student.
- ***Please avoid gathering and talking in the hallway outside the testing room.*** The noise can be very distracting to the remaining exam-takers.
- ***Do not discuss exam content on blackboard, social media sites or in the hallways, and especially do not discuss exams with students from other pathophysiology class sections who have not yet taken the exam.*** If you are aware that someone is sharing answers with a student who has not taken the exam, you are obligated to come forward and report it. Both ***directly discussing exam content*** in the above manner ***and failure to report someone else discussing exam content*** are considered examples of academic dishonesty that are reportable to the UTA Judicial Affairs Department.

CLASSROOM CONDUCT RULES:

- **RE: lateness to class:**
 - Class begins at the hour. Students are expected to be in their seats and ready to begin taking notes at that time. This applies to post-break time lecture continuation as well.
 - If a *pattern of lateness* is noted, you may be asked to sign a lateness roster upon your late arrival and later counseled. If the pattern continues, points may be taken off of your next exam score.
- **RE: attention to lecture:**
 - Participating in class discussions is encouraged, but talking / whispering between students during lecture is disruptive, disrespectful, and minimally tolerated. If necessary, students who talk excessively amongst themselves will be asked not to sit together, and/or to leave the class.
 - Similarly, if you would prefer to read the newspaper or magazines, or engage in other non-class-related activities during lecture time, please don't come to class.
- **RE: electronics:**
 - All beepers and cell phones must be ***off*** during class and ***put away-- no cell phones may be on your desk or in your hand during class***. If there are special circumstances that necessitate having your cell phone on your desk, please obtain special permission.
 - During breaks, students are expected to go out into the hall if they want to have a conversation on their cell phone.
 - Computers may be used in class for the purpose of personal note taking only. Students are expected to refrain from playing games, watching movies, listening to music, or doing other computer work during class.
 - Audiotaping the lecture is permitted, but the taped lecture ***must not be posted online*** in any form. Taking pictures or videotaping is ***not permitted***.

- If a pattern of non-adherence to the above rules of conduct is noted, the student will be counseled and/or asked to leave the class.

Professional Conduct on Blackboard and Social Media Sites

The Blackboard Discussion Board is to be viewed as a professional forum for student discussions. Students are free to discuss academic matters and consult one another regarding academic resources. The tone of postings on the Blackboard Discussion Board is to remain professional in nature at all times. It is not appropriate to post statements of a personal or political nature, or statements criticizing classmates or faculty. Statements considered inappropriate will be deleted by course faculty.

Announcements from student organizations may be posted to a discussion board or in the announcements by the instructor.

Students are to refrain from discussing this course, including clinical situations, written assignments, peers, or faculty on all social networking sites such as Facebook, Twitter, etc.

Failure to comply with these expectations may result in further action including but not limited to removal from the discussion board.

Grade Grievances:

Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog.

<http://catalog.uta.edu/academicregulations/grades/#undergraduatetext>

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw.

Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://wwweb.uta.edu/aao/fao/>).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a **letter certified** by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364.

Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability.

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

Non-Discrimination Policy: *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information,*

and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos.

Title IX Policy: The University of Texas at Arlington (“University”) is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. For information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. If any exams are administered in a non-proctored environment, I reserve the right, at any time, to require a student to take or re-take any or all exams in a proctored environment. If I deem this necessary, the student is responsible for making the proctoring arrangements, subject to my approval. This policy applies to any and all assignments required in this course.

Per UT System Regents’ Rule 50101, §2.2, which states “Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.” suspected violations of university’s standards for academic integrity (including the Honor Code) will be referred to the Office of Community Standards. Being found responsible for violating Regents’ Rule 50101, §2.2 by the Office of Community standards will result in course failure. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

PLAGIARISM: Copying another student’s paper or any portion of it is plagiarism. Additionally, copying a portion of published material (e.g., books or journals) without adequately documenting the source is plagiarism. If five or more words in sequence are taken from a source, those words must be placed in quotes and the source referenced with author’s name, date of publication, and page number of publication. If the author’s ideas are rephrased, by transposing words or expressing the same idea using different words, the idea must be attributed to the author by proper referencing, giving the author’s name and date of publication. If a single author’s ideas are discussed in more than one paragraph, the author must be referenced at the end of each paragraph. Authors whose words or ideas have been used in the preparation of a paper must be listed in the references cited at the end of the paper. Students are encouraged to review the plagiarism module from the UT Arlington Central Library via <http://library.uta.edu/plagiarism/index.html>. Papers are now checked for plagiarism and stored in Blackboard.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at www.uta.edu/resources.

The IDEAS Center (2nd Floor of Central Library) offers **free** tutoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. To schedule an appointment with a peer tutor or mentor email IDEAS@uta.edu or call (817) 272-6593.

The English Writing Center (411LIBR): The Writing Center Offers free tutoring in 20-, 40-, or 60-minute face-to-face and online sessions to all UTA students on any phase of their UTA coursework. Our hours are 9 am to 8 pm Mon.-Thurs., 9 am-3 pm Fri. and Noon-6 pm Sat. and Sun. Register and make appointments online at <http://uta.mywconline.com>. Classroom Visits, workshops, and specialized services for graduate students are also available. Please see www.uta.edu/owl for detailed information on all our programs and services.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Campus Carry: Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit <http://www.uta.edu/news/info/campus-carry/>

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest stairwell. When exiting the building

during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Observance of Religious Holy Days:

Undergraduate Nursing faculty and students shall follow the University policy regarding Observance of Religious Holy Days: (http://www.uta.edu/catalog/content/general/academic_regulations.aspx#6)

N3366 Pathological Processes: Implications for Nursing OBJECTIVES

Content	Learning Objectives STUDENT WILL DESCRIBE/DISCUSS/IDENTIFY:
Basic Concepts of Pathophysiology	<ol style="list-style-type: none"> 1. concepts underlying the nomenclature of physiology and pathophysiology. 2. appropriate, general application of those concepts to disease processes and situations.
Genetic Influence in Disease	<ol style="list-style-type: none"> 1. various multifactorial genetic disorders 2. pathophysiology of basic chromosomal problems such as Down's 3. single-gene alterations resulting in protein synthesis defects and their relationship to disease processes & symptoms, such as sickle cell anemia, polycystic kidney disease, hemophilia 4. some therapeutic uses of recombinant DNA.
Alterations in Fluids, Electrolytes, & Intracellular Functions	<ol style="list-style-type: none"> 1. the concepts of physiologic and pathophysiologic fluid shifts between the body's fluid compartments as driven by alterations in osmolality, oncotic pressure, tonicity, hydrostatic pressure, and control mechanisms such as RAAS, natriuretic peptide system, & ADH. 2. the effect of alterations of key molecular substances such as sodium, potassium, and calcium on electrical properties of cells. 3. normal cellular metabolism and its alternate states, including anaerobic metabolism and the processes of glycogenesis, glycogenolysis, and gluconeogenesis. 4. the relationship of all the above to certain disease processes and signs and symptoms (S&S), including: <ul style="list-style-type: none"> • fluid overload and fluid deficit states. • basic states of acidosis and alkalosis. • hyperpolarized and hypopolarized plasma membrane. • alterations of glucose availability. • alterations in usage of certain vitamins.
Altered Tissue & Cellular Proliferation	<ol style="list-style-type: none"> 1. key aspects of normal tissue types and normal cellular life /death cycle such as differentiation & apoptosis. 2. aspects of the cell injury process such as spectrum of injury, cell swelling, enzymatic spillage such as CK, myoglobin, and troponin. 3. causative factors and sequela of reversible and irreversible cellular injury such as hypoxia & necrosis; ischemia & infarct; carbon monoxide poisoning; free radical attack; cellular accumulations such as lipids & uric acid; abnormal cellular proliferation (cancer). 4. causative factors, mechanism, and significance of tissue adaptation processes such as atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia. 5. causative factors in pathologic cellular proliferation, including genetic influence, infective processes, and environmental effects. 6. nomenclature of benign versus malignant cancers, diagnostic & genetic markers, classifications, staging, and clinical significance of each. 7. correlation of information in 1-5 above with disease processes and manifestations. 8. correlation of altered tissue and cellular proliferation with issues of immobility.

<p>Mechanisms of Defense: Alterations in Inflammation & Immune Function; Infection</p>	<ol style="list-style-type: none"> 1. basic aspects of 1st line of defense and effects of pathologies such as Sjogren's syndrome. 2. normal & abnormal basic aspects of 2nd line of defense, including <ul style="list-style-type: none"> • normal inflammatory processes: roles of mast cells, biochemical mediators such as histamine, prostaglandins, leukotrienes, acute phase reactants, & clotting cascade; and phagocytes such as neutrophils and macrophages • relationship of above processes to acute local S&S (erythema, swelling, heat, pain, exudate, granulation) and systemic manifestations (leukocytosis, fever); diagnostic tests such as CRP; and basic treatment modalities. • disorders of hyper-inflammation such as septic shock and of hypo-inflammation, such as leukopenia and chemotactic defects. 3. basic aspects of 3rd line of defense, including <ul style="list-style-type: none"> • normal immunocyte processes, including roles of cell-mediated and humoral systems • differences between active & passive immunity and their subcategories natural and artificial • therapeutic / preventative measures such as vaccinations & immunoglobulin therapy • immune deficiency disorders such as AIDS: <ul style="list-style-type: none"> ○ its epidemiological considerations, portal of entry and transmission prevention. ○ its pathophysiology, including mechanisms of action of its causative retrovirus, HIV. ○ diagnostic & monitoring tests, S&S, and basic treatment modalities. ○ opportunistic infections such as CMV retinitis, thrush, Pneumocystis Pneumonia (PCP), & Kaposi's sarcoma, and their significance. • hypersensitivities such as <ul style="list-style-type: none"> ○ allergic reactions, including anaphylaxis. ○ autoimmune processes such as Graves disease, myasthenia gravis, systemic lupus erythematosus, rheumatoid arthritis, Goodpasture's, hemolytic reactions, Type I diabetes, multiple sclerosis, celiac disease ○ alloimmune reactions such as blood transfusions, Rh factor incompatibility of fetuses, histocompatibility 4. concepts underlying and application of infectious disease terminology such as endemic, epidemic, pandemic; portals of entry such as breaching of skin integrity, airborne, oral/fecal, & bloodborne; issues of antibiotic resistance, especially related to MRSA, resistant streptococcus, and VRE. 5. the interrelationships between the etiology, portal of entry, pathophysiology, clinical manifestations, and basic treatment modalities of select infectious disorders
<p>Disorders of the Hematologic System</p>	<ol style="list-style-type: none"> 1. key physiologic features of hematological system & their relationship to pathological derangements; <ul style="list-style-type: none"> • hematopoietic system: leukemia, multiple myeloma, various anemias, polycythemias, and splenic problems. • platelets, the clotting cascade, and the fibrinolytic system: ITP, hemophilia, von Willebrand disease, and thromboembolic disorders. 2. correlation to clinical manifestations, diagnostic tools, and basic treatment modalities of the above pathologies.
<p>Disorders of the Circulatory System</p>	<ol style="list-style-type: none"> 1. influences upon and results of appropriate, forward, effective, oxygenated blood flow through the heart and peripheral system, such as normal cardiac structure, cardiac cycle, cardiac output, preload, afterload (AKA vascular resistance), contractility, neuroelectrical status of the heart, status of peripheral vessels, perfusion

	<p>of tissues.</p> <ol style="list-style-type: none"> relationship between derangements of the above structural and hemodynamic processes and the etiological factors, clinical manifestations, diagnostics, and basic treatment modalities of disorders such as: <ul style="list-style-type: none"> arteriosclerosis and atherosclerosis peripheral arterial disease venous disorders hypertension coronary artery disease stable angina and acute coronary syndrome valvular disorders heart failure cardiogenic shock
Disorders of the Pulmonary System	<ol style="list-style-type: none"> the relationship between key aspects of normal pulmonary function and the pathophysiology involved in: <ul style="list-style-type: none"> select restrictive pulmonary conditions, including: <ul style="list-style-type: none"> pleural alterations such as effusion and pneumothorax airway & pulmonary tissue disorders such as croup, pneumonia, pulmonary edema, tuberculosis, and bronchogenic cancer. vascular disorders such as pulmonary embolus. select obstructive pulmonary conditions, including <ul style="list-style-type: none"> asthma, chronic bronchitis, emphysema, signs and symptoms related to above pathological conditions, including significance of diagnostic test results used to evaluate and monitor pulmonary function, including peak flow test, ABGs, and V/Q computations
Disorders of Renal & Genitourinary Systems	<ol style="list-style-type: none"> the relationship between key aspects of normal genitourinary function and the pathophysiology involved in select genitourinary-related conditions, including: <ul style="list-style-type: none"> female-specific disorders: endometriosis, ovarian cancer, PID, UTIs. male-specific disorders: testicular cancer, benign prostatic hyperplasia, prostate cancer nongender-specific problems: STIs, urologic obstructions the relationship between key aspects of normal renal function and the pathophysiology involved in select renal conditions, including: <ul style="list-style-type: none"> hydronephrosis. glomerulonephritis acute kidney injury (AKI; previously known as ARF—acute renal failure) and chronic kidney disease signs and symptoms related to above pathological conditions, including significance of diagnostic test results used to evaluate and monitor renal and genitourinary function, such as: <ul style="list-style-type: none"> PSA BUN, creatinine, urinalysis, creatinine clearance basic treatment modalities of the above pathologies.
Disorders of Neurologic System	<ol style="list-style-type: none"> the relationship between key aspects of normal neurological function and the pathophysiology involved in select neurologically-related conditions, including: ophthalmic-related derangements/vocabulary <ul style="list-style-type: none"> alterations in homeostasis of the CNS, including: <ul style="list-style-type: none"> principles of CPP & ICP; effect of increased ICP (IICP) & cerebral edema meningitis seizures.

	<ul style="list-style-type: none"> ○ brain attack—ischemic, hemorrhagic. ○ migraines ○ Parkinson's ○ Alzheimer's ○ multiple sclerosis ○ alterations in homeostasis of the peripheral nervous system including myasthenia gravis <p>2. signs and symptoms and basic treatment modalities associated with above pathological conditions.</p>
Disorders of Endocrine System	<p>1. key aspects of normal endocrine function, especially feedback systems and influences on other body systems.</p> <p>2. pathophysiology of select derangements of endocrine glands, including:</p> <ul style="list-style-type: none"> • hyperthyroidism & hypothyroidism • calcium movement problems caused by disorders of calcitonin and PTH • hormonally-related bone disorders such as osteopenia & osteoporosis caused by above problems, as well as menopause. • diabetes mellitus. • Cushing's syndrome & Addison's disease <p>3. signs and symptoms related to above pathological conditions, including the significance of diagnostic test results used to evaluate and monitor endocrine function, such as TSH, T4, T3, cortisol, blood sugar, and glycosylated hemoglobin.</p> <p>4. basic treatment modalities related to altered endocrine conditions.</p>
Disorders of the Gastrointestinal System	<p>1. the relationship between key aspects of normal gastrointestinal function and pathophysiology involved in select gastrointestinal and accessory organ conditions including:</p> <ul style="list-style-type: none"> • colorectal cancer, GERD, hiatal hernia, peptic ulcer disease, intestinal obstruction, inflammatory bowel disease, diverticular disease, appendicitis, upper and lower GI bleed. • jaundice, viral hepatitis, cirrhosis, cholelithiasis, cholecystitis, acute pancreatitis, pancreatic cancer, cystic fibrosis. <p>2. signs and symptoms related to the above pathological conditions, including significance of diagnostic tests results such as hemoccult, bilirubin, amylase, lipase, liver enzymes, endoscopy, sweat test.</p> <p>3. basic treatment modalities related to altered gastrointestinal and accessory organ conditions.</p>

The Library's 2nd floor Academic Plaza offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library's hours of operation. <http://library.uta.edu/academic-plaza>

LIBRARY INFORMATION: **Peace Ossom Williamson, MLS, MS, AHIP**
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Research information on nursing:
<http://libguides.uta.edu/nursing>

UNDERGRADUATE SUPPORT STAFF: **Holly Woods, Administrative Assistant I, Pre-nursing & Senior II**
660 Pickard Hall, (817) 272-7295

Email: hwoods@uta.edu

Suzanne Kyle, *Administrative Assistant I, Junior I - Senior I*

661 Pickard Hall, (817) 272-0367

Email: skyle@uta.edu

STUDENT CODE OF ETHICS:

The University of Texas at Arlington College of Nursing and Health Innovation supports the Student Code of Ethics Policy. Students are responsible for knowing and complying with the Code. The Code can be found in the Student Handbook.

CODE OF PROFESSIONAL CONDUCT

Nursing students in the UTA CONHI are considered to be part of the nursing profession. As members of the profession, students are expected to commit to and maintain high ethical standards.

Students are responsible and accountable for their own academic and professional behaviors and the resulting consequences.

Students will demonstrate self-discipline throughout all aspects of their nursing education, including meeting academic responsibilities and exhibiting professional conduct in the classroom and in the community, as outlined in the Texas Nurse Practice Act and Texas State Board of Nursing Policies.

It is each student's responsibility to promote scholastic honesty and professional ethics by actively participating with faculty in maintaining a quality academic environment. Students are expected to guard public safety by immediately reporting to faculty, any incident they observe or are aware of which would allow incompetent, unethical, or illegal practice by another individual. Having knowledge of and failing to report such behaviors constitutes a breach of both academic and professional responsibilities.

Refer to the Student Handbook for more information.

APA FORMAT:

APA style manual will be used by the UTA CONHI with some specific requirements for the undergraduate courses. The sample title page & instructions, as well as a Manuscript Preparation document can be found at: www.uta.edu/nursing/handbook/bsn_policies.php#apa

HONORS COLLEGE:

Students who are members of the Honors College may wish to take this course for Honors credit. If you wish to do so, please provide the instructor with an Honors Credit Contract (downloaded from <http://honors.uta.edu/documents/credit.pdf>). You and the instructor will together determine an appropriate supplemental assignment to justify the awarding of Honors credit. If you are not in the Honors College and would like to learn more about the benefits of membership, visit the website at <http://honors.uta.edu/>, where you will find an application form for electronic submission.

CLASSROOM CONDUCT GUIDELINES:

The Faculty of the BSN Program believes that classroom teaching has two goals: the provision of content pertinent to the discipline of nursing and the socialization of students into the professional role. We are committed to providing the curriculum in an atmosphere conducive to student learning and in a manner that will prepare graduates to be successful in the health care workplace. Refer to the Student Handbook for more information.

TESTING ENVIRONMENT:

Although faculty strives to provide a quiet learning/testing environment there may be noises and distractions in any testing environment that are beyond the control of the exam proctors. If a student feels that the

testing environment is unduly noisy or distracting for any reason, it is the responsibility of the student to report this to an exam proctor as soon as possible during the exam so corrective action may be taken.

NO GIFT POLICY:

In accordance with Regents Rules and Regulations and the UTA Standards of Conduct, the College of Nursing and Health Innovation has a “no gift” policy. A donation to the UTA College of Nursing and Health Innovation Scholarship Fund would be an appropriate way to recognize a faculty member’s contribution to your learning. For information regarding the Scholarship Fund, please contact the Dean’s office.

The Undergraduate BSN Student Handbook can be found by going to the following link:
http://www.uta.edu/conhi/_doc/unurs/BSN_student_handbook.pdf.

Emergency Phone Numbers: In case of an on-campus emergency, call the UT Arlington Police Department at 817-272-3003 (non-campus phone), 2-3003 (campus phone). You may also dial 911.

WEEK	Date Wedn. class (Section 001)	Lecture content N3366-001 Pathological Processes: Implications for Nursing Classroom Lecture Schedule for <u>Wednesdays</u> , Spring 2018	A&P review material	Adjunctive reading
1	(PATHO 1 st day) 1/17	<ul style="list-style-type: none"> Course Overview, Syllabus (required reading). ATTESTATION DUE Basic Concepts of Pathophysiology Genetic Influence in Disease 	Prep #1	xviii-xxii Ch. 5 & 6
2	1/24	<ul style="list-style-type: none"> Alterations in Fluids, Electrolytes, & Intracellular Functions 	Prep #2	Ch.1, 8,10
3	1/31	<ul style="list-style-type: none"> Altered Tissue & Cellular Proliferation 	Prep #3	Ch. 2,4,7
4	2/6	Quiz #1 due in Blackboard by 11:59pm		
4	2/7	Exam 1 (1 hour) <ul style="list-style-type: none"> Mechanisms of Defense: Alterations in Inflammation & Immune Function 	Prep #4	Ch.3, 15,16
5	2/14	<i>~~Post-exam 1 Self-Study Session~~</i> <ul style="list-style-type: none"> Mechanisms of Defense, cont 	Prep #4	Ch.3, 15,16
6	2/21	<ul style="list-style-type: none"> Mechanisms of Defense: Infection Disorders of Hematologic Systems 	Prep #4 Prep #5	Ch.14 Ch.11,12, 13
7	2/27	Quiz #2 due in Blackboard by 11:59pm		
7	2/28	Exam 2 (1 hour) <ul style="list-style-type: none"> Disorders of Circulatory System: Peripheral Vascular Problems 	Prep #6	Ch.17,18,1 9,20
8	3/7	<i>~~Post-exam 2 Self-Study Session~~</i> <ul style="list-style-type: none"> Disorders of Circulatory System: Cardiovascular Problems 	Prep #6	Ch.17,18,1 9,20
9	3/14	<ul style="list-style-type: none"> Enjoy your spring break 		
10	3/21	<ul style="list-style-type: none"> Disorders of Circulatory System: Cardiovascular Problems, cont Disorders of Pulmonary System 	Prep #7	Ch.21,23
11	3/27	Quiz #3 due in Blackboard by 11:59pm		
11	3/28	Exam 3 (1 hour) <ul style="list-style-type: none"> Disorders of Endocrine System, Part I 	Prep #10	Ch.31, 32
12	4/4	<i>~~Post-exam 3 Self-Study Sessions~~</i> <ul style="list-style-type: none"> Disorders of Renal & Genitourinary Systems 	Prep #8	Ch.25,26,2 7,39,40, 41
13	4/11	<ul style="list-style-type: none"> Disorders of Neurologic System 	Prep #9	Ch. 34, 35,36,37
14	4/17	Quiz #4 due in Blackboard by 11:59pm		
14	4/18	Exam 4 (1 hour) <ul style="list-style-type: none"> Disorders of Endocrine System, Part II 	Prep #10	Ch. 32,33
15	4/25	<i>~~Post-exam 4 Self-Study Session~~</i> <ul style="list-style-type: none"> Disorders of Endocrine System, Part II, cont Disorders of Gastrointestinal System 	Prep #10 Prep #11	Ch. 32, 33 Ch.28,29,3 0
16	5/02	<ul style="list-style-type: none"> Formal review for Final Exam AND Self-Study Session 		
17	5/08	Quiz #5 due in Blackboard by 11:59pm		
17	5/09	Final Exam (1 hr & 45 mins.) NOTE: FINAL EXAM DATES MAY CHANGE ACCORDING TO UNIVERSITY SCHEDULE		

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. Regina Urban, PhD, RN-BC, CCRN, CNE

WEEK	Date	Lecture content	A&P review material	Adjunctive reading
	Thurs. class (Section 002)	N3366-002 Pathological Processes: Implications for Nursing Classroom Lecture Schedule for Thursday, Spring 2018		
1	(PATHO 1 st day) 1/18	<ul style="list-style-type: none"> Course Overview, Syllabus (required reading). ATTESTATION DUE Basic Concepts of Pathophysiology Genetic Influence in Disease 	Prep #1	xviii-xxii Ch. 5 & 6
2	1/25	<ul style="list-style-type: none"> Alterations in Fluids, Electrolytes, & Intracellular Functions 	Prep #2	Ch.1, 8,10
3	2/01	<ul style="list-style-type: none"> Altered Tissue & Cellular Proliferation 	Prep #3	Ch. 2,4,7
4	2/7	Quiz #1 due in Blackboard by 11:59pm		
4	2/8	Exam 1 (1 hour) <ul style="list-style-type: none"> Mechanisms of Defense: Alterations in Inflammation & Immune Function 	Prep #4	Ch.3, 15,16
5	2/15	<i>~~Post-exam 1 Self-Study Session~~</i> <ul style="list-style-type: none"> Mechanisms of Defense, cont 	Prep #4	Ch.3, 15,16
6	2/22	<ul style="list-style-type: none"> Mechanisms of Defense: Infection Disorders of Hematologic Systems 	Prep #4 Prep #5	Ch.14 Ch.11,12, 13
7	2/28	Quiz #2 due in Blackboard by 11:59pm		
7	3/01	Exam 2 (1 hour) <ul style="list-style-type: none"> A & P review of circulatory system 	Prep #6	Ch.17,18,1 9,20
8	3/8	<i>~~Post-exam 2 Self-Study Session~~</i> <ul style="list-style-type: none"> Disorders of Circulatory System: Peripheral Vascular Problems Disorders of Circulatory System: Cardiovascular Problems 	Prep #6	Ch.17,18,1 9,20
9	3/15	<ul style="list-style-type: none"> <i>Enjoy your spring break</i> 		
10	3/22	<ul style="list-style-type: none"> Disorders of Circulatory System: Cardiovascular Problems, cont Disorders of Pulmonary System 	Prep #7	Ch.21,23
11	3/28	Quiz #3 due in Blackboard by 11:59pm		
11	3/29	Exam 3 (1 hour) <ul style="list-style-type: none"> Disorders of Endocrine System, Part I 	Prep #10	Ch.31, 32
12	4/5	<i>~~Post-exam 3 Self-Study Sessions~~</i> <ul style="list-style-type: none"> Disorders of Renal & Genitourinary Systems 	Prep #8	Ch.25,26,2 7,39,40, 41
13	4/12	<ul style="list-style-type: none"> Disorders of Neurologic System 	Prep #9	Ch. 34, 35,36,37
14	4/18	Quiz #4 due in Blackboard by 11:59pm		
14	4/19	Exam 4 (1 hour) <ul style="list-style-type: none"> Disorders of Endocrine System, Part II 	Prep #10	Ch. 32,33
15	4/26	<i>~~Post-exam 4 Self-Study Session~~</i> <ul style="list-style-type: none"> Disorders of Endocrine System, Part II, cont Disorders of Gastrointestinal System 	Prep #10 Prep #11	Ch. 32, 33 Ch.28,29,3 0
16	5/03	<ul style="list-style-type: none"> <i>Formal review for Final Exam AND Self-Study Session</i> 		
17	5/09	Quiz #5 due in Blackboard by 11:59pm		
17	5/10	Final Exam (1 hr & 45 mins.) NOTE: FINAL EXAM DATES MAY CHANGE ACCORDING TO UNIVERSITY SCHEDULE		

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. Deborah M. Hughes, MS, RN, CCRN

WEEK	Date Fri. class (Section 003)	Lecture content N3366-001 Pathological Processes: Implications for Nursing Classroom Lecture Schedule for <u>Fridays</u> , Spring 2018	A&P review material	Adjunc- tive reading
1	(PATHO 1 st day) 1/19	<ul style="list-style-type: none"> Course Overview, Syllabus (required reading). ATTESTATION DUE Basic Concepts of Pathophysiology Genetic Influence in Disease 	Prep #1	xviii-xxii Ch. 5 & 6
2	1/26	<ul style="list-style-type: none"> Alterations in Fluids, Electrolytes, & Intracellular Functions 	Prep #2	Ch.1, 8,10
3	2/2	<ul style="list-style-type: none"> Altered Tissue & Cellular Proliferation 	Prep #3	Ch. 2,4,7
4	2/8	Quiz #1 due in Blackboard by 11:59pm		
4	2/9	Exam 1 (1 hour) <ul style="list-style-type: none"> Mechanisms of Defense: Alterations in Inflammation & Immune Function 	Prep #4	Ch.3, 15,16
5	2/16	<i>~~Post-exam 1 Self-Study Session~~</i> <ul style="list-style-type: none"> Mechanisms of Defense, cont 	Prep #4	Ch.3, 15,16
6	2/23	<ul style="list-style-type: none"> Mechanisms of Defense: Infection Disorders of Hematologic Systems 	Prep #4 Prep #5	Ch.14 Ch.11,12, 13
7	3/01	Quiz #2 due in Blackboard by 11:59pm		
7	3/2	Exam 2 (1 hour) <ul style="list-style-type: none"> Disorders of Circulatory System: Peripheral Vascular Problems 	Prep #6	Ch.17,18,1 9,20
8	3/9	<i>~~Post-exam 2 Self-Study Session~~</i> <ul style="list-style-type: none"> Disorders of Circulatory System: Cardiovascular Problems 	Prep #6	Ch.17,18,1 9,20
9	3/16	<ul style="list-style-type: none"> Enjoy your spring break 		
10	3/23	<ul style="list-style-type: none"> Disorders of Circulatory System: Cardiovascular Problems, cont Disorders of Pulmonary System 	Prep #7	Ch.21,23
11	drop date Mar 30	3/29	Quiz #3 due in Blackboard by 11:59pm	
11	3/30	Exam 3 (1 hour) <ul style="list-style-type: none"> Disorders of Endocrine System, Part I 	Prep #10	Ch.31, 32
12	4/6	<i>~~Post-exam 3 Self-Study Sessions~~</i> <ul style="list-style-type: none"> Disorders of Renal & Genitourinary Systems 	Prep #8	Ch.25,26,2 7,39,40, 41
13	4/13	<ul style="list-style-type: none"> Disorders of Neurologic System 	Prep #9	Ch. 34, 35,36,37
14	4/19	Quiz #4 due in Blackboard by 11:59pm		
14	4/20	Exam 4 (1 hour) <ul style="list-style-type: none"> Disorders of Endocrine System, Part II 	Prep #10	Ch. 32,33
15	4/27	<i>~~Post-exam 4 Self-Study Session~~</i> <ul style="list-style-type: none"> Disorders of Endocrine System, Part II, cont Disorders of Gastrointestinal System 	Prep #10 Prep #11	Ch. 32, 33 Ch.28,29,3 0
16	5/04	<ul style="list-style-type: none"> Formal review for Final Exam AND Self-Study Session 		
17	5/10	Quiz #5 due in Blackboard by 11:59pm		
17	5/11	Final Exam (1 hr & 45 mins.) NOTE: FINAL EXAM DATES MAY CHANGE ACCORDING TO UNIVERSITY SCHEDULE		

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. Regina Urban, PhD, RN-BC, CCRN, CNE