



**Pharmacology of  
Critical Care  
NURS 6361  
Fall 2024**

**Scheduled Class Days and Times:  
Online**

**Instructor's Name:** Brandi L. Holcomb DNP, APRN, AGACNP-BC, CCRN

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**Office Hours:** Virtual Office Hours: Tuesdays: 5 p.m.- 8 p.m. CST and available via appointment, email, conference call, and/or Zoom.

\*Best way to contact me.

**Course Description:** This course focuses on the pharmacodynamics and pharmacokinetics of drugs frequently used in caring for acutely and critically ill adult/geriatric patient populations. The mechanisms of action, desired effects, possible adverse effects, and safe dosages of multiple drug classes, including antidysrhythmics, analgesics, sedatives, and paralytics, as well as blood products are evaluated. Safe prescription and administration practices are emphasized along with professional collaboration across care disciplines.

**Prerequisite:** Admission to the Adult/Geriatric Acute Care Nurse Practitioner program.

**Semester Credit Hours:** 3

**Student Learning Outcomes:**

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

1. Prescribe drugs based on knowledge of drug pharmacokinetics and pharmacodynamics; as well as drug prescription based on efficacy, safety, cost, expected outcomes, and other health conditions as they relate to relevant individual patient characteristics (e.g. age, culture, & gender) [*Domain 1, Knowledge for Nursing Practice, Domain 2, Person-Centered Care; Domain 5, Quality and Safety*].
2. Apply appropriate monitoring parameters in assessing the impact and efficacy of drug treatment [*Domain 5, Quality and Safety*].
3. Analyzes prescription practices for medications while maintaining awareness of and monitoring for adverse drug outcomes and complex medical regimens, particularly in high-risk and vulnerable populations. Minimize drug reactions/interactions with special attention on the adult and

- geriatric patient populations [*Domain 1, Knowledge for Nursing Practice; Domain 2, Person-Centered Care, Domain 3, Population Health; Domain 5, Quality and Safety*].
4. The prescriber will analyze evidence-based practice interventions to promote safety and risk reduction while also providing counsel to the patient/family concerning drug regimens, side effects, interactions with other prescriptions/non-prescription drugs, herbal preparations, and food supplements [*Domain 1, Knowledge for Nursing Practice; Domain 2 Person-Centered Care, Scholarship for Nursing Discipline; Domain 5, Quality and Safety Domain 9, Professionalism*].
  5. The prescriber will write prescriptions that fulfill the legal requirements for advanced practice nursing prescriptive authority in the student's prospective State [*Domain 1, Knowledge for Nursing Practice; Domain 5, Quality and Safety; Domain 8, Informatics and Healthcare Technologies, Domain 9, Professionalism*].
  6. The prescriber will analyze and demonstrate advanced communication skills and processes to collaborate with caregivers and professionals to optimize healthcare outcomes for adults with acute, critical, or complex chronic illness [*Domain 4, Scholarship for Nursing Discipline; Domain 6, Interprofessional Partnerships; Domain 8, Informatics and Healthcare Technologies, Domain 9, Professionalism, Domain 10, Personal, Professional, and Leadership Development*].
  7. The prescriber will analyze pharmacologic and non-pharmacologic management strategies to ameliorate physical and behavioral symptoms in individuals who have mental health and substance misuse disorders [*Domain 1, Knowledge for Nursing Practice; Domain 2, Person-Centered Care, Domain 5, Quality and Safety*].

### **Required Textbooks and Readings:**

1. Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2024; ISBN: 9780826176172; eBook ISBN: 9780826176189  
<https://www.r2library.com/Resource/Title/08261766178>
2. Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723 <https://www.r2library.com/resource/title/082612769X>
3. Mount Sinai Expert Guides: Critical Care  
Stephan A. Mayer, Janet M. Shapiro, Umesh K. Gidwani, and John M. Oropello
4. Publication Manual of the American Psychological Association: The Official Guide to APA Style, 7<sup>th</sup> edition; American Psychological Association; ISBN: 9781433832161; eBook ISBN: 9781433832154
5. AACN Scope and Standards for Acute Care Nurse Practitioner Practice, Linda Bell, RN MSN (ed.); 2017; ISBN: 9780945812005

## Helpful links and sites for the AGACNP regarding scope of practice and safe prescription

1. [Texas Prescription Monitoring Program \(PMP\)](#)
2. [Texas Summary Profile.pdf \(pdmpassist.org\)](#)
3. [Texas Nurse Practitioners \(texasnp.org\)](#)
4. <https://www.dea.gov>
5. <https://bon.texas.gov>
6. [Nurse Practitioner Prescriptive Authority \(aanp.org\)](#)
7. [NP Safe Prescribing of Controlled Substances While Avoiding Drug Diversion - StatPearls - NCBI Bookshelf \(nih.gov\)](#)

## Assignments and Weights/Percentage/Point Values:

1. <b>Weekly Discussion Board posts</b>	15%
2. <b>Group Project—Pharmacology Application to Practice Scenarios</b>	15%
3. <b>5 Quizzes</b>	15%
4. <b>Four Exams</b>	40%
5. <b>Integrated Pathophysiology &amp; Pharmacology Project</b>	15%
<b>Total:</b>	<b>100%</b>

## 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 - 70-79
- D - 60-69
- F - Below 60

Grades will not be rounded when calculating the average (79.5 is not rounded to 80 and 89.5 is not rounded to 90). Students are required to achieve an average of 80% (B) to successfully complete the course.

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
- **Use of Artificial Intelligence:** All assignments in this course are individual assignments. In this class, you will often be discussing course concepts with your classmates and with me, but when you sit down to complete a quiz, write a discussion post, or work on a project, you are expected to do the actual work on your assignments independently.
  - Use of an AI Generator such as ChatGPT, MidJourney, DALL-E, Open Evidence, etc. is explicitly prohibited unless otherwise noted by the instructor. The information derived from these tools is based on previously published materials. Therefore, using these tools without proper citation constitutes plagiarism. Additionally, be aware that the information derived from these tools is often inaccurate or incomplete. It is imperative that all work submitted should be your own. Any assignment that is found to have been plagiarized or to have used unauthorized AI tools may receive a zero and / or be reported for academic misconduct.
- **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, clinical time missed is at the discretion of the instructor.

**Graded Course Requirements Information:**

- **Weekly Discussion Board posts.** Class participation and engagement are very important in online programs. Weekly discussion board posts are associated with a corresponding module topic and are based on the assigned readings and media. The initial response to the module discussion is due by Wednesday at 2359 PM CST of the module week. The maximum word count is 500 and responses should be uploaded in APA7 format (no title page necessary) and have two references noted. Two replies to other students' posts for the module are due by Sunday at midnight of the module week and have a maximum word count of 250 and should include one reference. These will be due Saturday at 2359 PM CST. Must have a

minimum of 1 reference for post and reply. Reference must be in APA7 format and published within the last five years. **Worth 15% of course grade. Posts due Saturday at 2359 PM.**

- **Group Project—Pharmacology Application to Practice Scenarios**—Collaboration in Acute Care project includes application of professional role and responsibilities, knowledge, and skills of the AGACNP in a collaborative interdisciplinary environment in acute care. Each group will be assigned a clinical scenario. A Pharmacologic treatment plan only for this patient including written prescriptions will be developed. This project implements collaboration with other students in the course and is **weighted at 15% of the overall course grade. Posts due Saturday at 2359 PM, week 6 of course.**
- **5 Quizzes** are interspersed throughout the course and are associated with the modules. These quizzes are open for one week at a time and students may access them/repeat them as many times as they wish to gain expertise with quizzes/exam strategies and to reinforce knowledge. Quiz results will not be released until EVERY student has completed the Quiz. **Total quizzes are worth 15% of the overall grade.**
- **Four Exams** (must obtain grade of 80 average). Each exam is 50 multiple-choice questions. Exam results will not be released until EVERY student has completed the Exam. **Total weight for all exams combined is 40%.**
  - Exam 1: Modules 1-3
  - Exam 2: Modules 4-6
  - Exam 3: Modules 7-9
  - Exam 4: Modules 10-12
- **Integrated Pathophysiology & Pharmacology Project** - This project will be an independent project and requires students to apply foundational knowledge and skills, ability to apply current research and scientific data along with application of same. Each student will be assigned a topic. APA format is required. **This project is weighted at 15% of overall course grade.**

**Please Note:** Detailed information along with grading rubrics for all assignments will be provided in the Canvas course.

**School of Nursing Policies and Additional Information:**

[https://www.utt Tyler.edu/nursing/college/student\\_guide\\_and\\_policies.php](https://www.utt Tyler.edu/nursing/college/student_guide_and_policies.php) **Student Resources and University Policies are provided in Canvas.**

## Calendar of Topics, Readings, and Due Dates

### NURS 6361- Pharmacology of Critical Care for the AGACNP

Fall 2024

Course Schedule				
Week #	Date	Class Topic	Readings	Assignments
1	August 26- August 31	<b>Module 1</b> Course Introduction and the fundamentals of prescribing to the adult and geriatric patient population.	Associated Textbook Readings:  Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189  Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723  <b>Chapter 1, pgs. 3-10</b> <b>Chapter 3, pgs. 21-26</b> <b>Chapter 4, pgs. 27-30</b> <b>Chapter 10, pgs. 51-58</b> <b>Chapter 27, pgs. 297-304</b>	<input type="checkbox"/> Introduction post to discussion board in CANVAS initial post due Wed 8/28 MN <input type="checkbox"/> <b>Mandatory Zoom Office Hours Thurs 8/29 at 7:30 pm:</b> Meet the Faculty & Review syllabus on Zoom. <input type="checkbox"/> Discussion board two responses due by Sat 8/31 @ 2359
2	September 1-7	<b>Module 2</b> Antimicrobials & Antivirals Sepsis Acute & Critical Care Clinical Management	Associated Textbook Readings:  Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189  <b>Chapter 10 Infection Guidelines Pgs. 269-316</b>  Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723	<input type="checkbox"/> Module 2 discussion board post initial post by Wed 9/4 @2359 <input type="checkbox"/> Discussion board two responses due by Sat 9/7 @2359 by Sat <input type="checkbox"/> Quiz #1 due by Sat 9/7 @2359
3	September 8-	<b>Module 3</b>	Associated Textbook Readings:	<input type="checkbox"/> Module 3

	14	Autoimmune Disorders Disorders of the Eyes & Ears Musculoskeletal & Integumentary Acute & Critical Care Clinical Management	Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189 <b>Chapter 1 Pgs. 4-14.</b> <b>Chapter 14 Pgs. 414-456</b> <b>Chapter 15 Pgs. 457-472</b>  Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723	discussion board post initial post by Wed 9/12 @ MN <input type="checkbox"/> Discussion board two responses due by Sat 9/14 @2359 by Sat
	September 11		<b>CENSUS DAY</b>	
	September 19		<b>EXAM # 1</b>	
4	September 15-21	<b>Module 4</b> Neurovascular & Psych Acute & Critical Care Clinical Management	Associated Textbook Readings:  Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189 <b>Chapter 6 Pgs. 175-200</b> <b>Chapter 9 Pgs. 245-268</b>  Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723 <b>Chapter 12, Pgs. 67-72</b> <b>Chapter 20, Pgs. 161-178</b> <b>Chapter 21, Pgs. 179-196</b>	<input type="checkbox"/> Module 4 initial discussion board post due by Wed 9/18 MN <input type="checkbox"/> <b>Exam #1 Thurs 9/19 open from 1700-2100 CST covers modules 1-3</b> <input type="checkbox"/> Discussion board two responses due by Sat 9/22 @2359
5	September 22-28	<b>Module 5</b> Hematology & Oncology Acute & Critical Care Clinical Management	Associated Textbook Readings:  Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189  <b>Chapter 12 Pgs. 337-354</b> <b>Chapter 13 Pgs. 355-412</b>	<input type="checkbox"/> Module 5 initial discussion board post due by Wed 9/25 MN <input type="checkbox"/> Discussion board two responses due by Sat 9/28 @2359 <input type="checkbox"/> Quiz #2 due by



			Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723  <b>Chapter 13, Pgs. 73-78</b>	Sat 9/28 @2359
6	September 29-October 5	<b>Module 6</b> Cardiovascular & Vascular Acute & Critical Care Clinical Management	Associated Textbook Readings:  Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189  <b>Chapter 3 Pgs. 43-84</b> <b>Chapter 11 Pgs. 317-335</b>  Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723  <b>Chapter 16, Pgs. 107-118</b>  <b>Chapter 17, Pgs. 119-126</b>	<input type="checkbox"/> Module 6 initial discussion board post due by Wed 10/2 2359 <input type="checkbox"/> <b>Group Project— Pharmacology Application to Practice Scenarios due by Sat 10/5 @2359</b> <input type="checkbox"/> Discussion board two responses due by Sat 10/5 @2359 <input type="checkbox"/> Quiz #3 due by Sat 10/5 @2359
	October 10		EXAM # 2	
7	October 6-12	<b>Module 7</b> Endocrine Acute & Critical Care Clinical Management	Associated Textbook Readings:  Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189  <b>Chapter 8 Pgs. 207-244</b>  Pharmacological Considerations in Gerontology (Farinde & Hebdon, 2019) doi 10.1891/9780826127723	<input type="checkbox"/> Module 7 initial discussion board post due by Wed 10/9 2359 <input type="checkbox"/> <b>Exam #2 Thurs 10/10 open from 1700-2100 CST covers modules 4-6</b> <input type="checkbox"/> Discussion board two responses due by Sat 10/12



			<b>Chapter 15 pgs, 89-105</b>	@2359
8	October 13-19	<b>Module 8</b> Pulmonary Acute & Critical Care Management	<p>Associated Textbook Readings:</p> <p>Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189</p> <p><b>Chapter 2 Pgs. 15-42</b></p> <p>Pharmacological Considerations in Gerontology (Farinde &amp; Hebdon, 2019) doi 10.1891/9780826127723</p> <p><b>Chapter 18, Pgs. 127-142</b></p>	<input type="checkbox"/> Module 8 initial discussion board post due by Wed 10/16 @ 2359 <input type="checkbox"/> Discussion board two responses due by Sat 10/19 @2359
9	October 20-26	<b>Module 9</b> Genitourinary, Renal & Electrolytes Acute & Critical Care Management	<p>Associated Textbook Readings:</p> <p>Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189</p> <p><b>Chapter 5 Pgs. 109-174</b></p> <p>Pharmacological Considerations in Gerontology (Farinde &amp; Hebdon, 2019) doi 10.1891/9780826127723</p> <p><b>Chapter 24, Pgs. 227-247</b>  <b>Chapter 25, Pgs. 247-276</b></p>	<input type="checkbox"/> Module 9 initial discussion board post due by Wed 10/23 @ 2359 <input type="checkbox"/> Discussion board two responses due by Sat 10/26 @2359 <input type="checkbox"/> Quiz #4 due by Sat 10/26 @ 2359
10	October 27-	<b>Module 10</b>	Associated Textbook Readings:	<input type="checkbox"/> Module 10 initial

	November 2	Gastrointestinal Acute & Critical Care Clinical Management	<p>Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189 <b>Chapter 4 pgs. 85-108</b></p> <p>Pharmacological Considerations in Gerontology (Farinde &amp; Hebdon, 2019) doi 10.1891/9780826127723 <b>Chapter 19, Pgs. 143-160</b></p>	<p>discussion board post due by Wed 10/30 @ 2359</p> <p><input type="checkbox"/> Discussion board two responses due by Sat 11/2 @2359</p>
			<b>Exam # 3 COVERS MODULES 7-9</b>	<p><input type="checkbox"/> <b>Exam #3 Thurs 11/14 open from 1700-2100 CST covers modules 7-9</b></p>
11	November 3-9	<b>Module 11:</b> Pre-Peri-Postoperative Evaluation & Management; Weight-loss, Vitamins, & Herbals Acute & Critical Care Clinical Management	<p>Associated Textbook Readings:</p> <p>Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189 <b>Chapter 18 Pgs. 515-522</b> <b>Chapter 19 Pgs. 523-532</b> <b>Chapter 20 Pgs. 533-540</b></p> <p>Pharmacological Considerations in Gerontology (Farinde &amp; Hebdon, 2019) doi 10.1891/9780826127723 <b>Chapter 23, Pgs. 211-226</b> <b>Chapter 26, Pgs. 277-296</b> <b>Chapter 28, Pgs. 305-310</b></p>	<p><input type="checkbox"/> Module 11 initial discussion board post due by Wed 11/6 @ 2359</p> <p><input type="checkbox"/> Discussion board two responses due by Sat 11/9 @2359</p>

	<b>October 31</b>		<b>Exam # 3</b>	
12	November 11-17	<b>Module 12</b> Trauma, Shock & CODES management	<p>Associated Textbook Readings:</p> <p>Adult Gerontology Acute Care Practice Guidelines, Catherine Harris, PhD, MBA, AGACNP; 2023; ISBN: 9780826176172; eBook ISBN: 9780826176189</p> <p><b>Chapter 17 Pgs. 493-513</b></p> <p>Pharmacological Considerations in Gerontology (Farinde &amp; Hebdon, 2019) doi 10.1891/9780826127723</p> <p><b>Chapter 8, Pgs. 43-45</b></p>	<input type="checkbox"/> Module 12 initial discussion board post due by Wed 11/13 @ 2359 <input type="checkbox"/> Discussion board two responses due by Sat 11/16 @2359 <input type="checkbox"/> Quiz #5 due by Sat 11/16 @ 2359
13	November 24-December 1		<b>THANKSGIVING HOLIDAY</b>	
	<b>November 21</b>		<b>Exam #4 COVERS MODULES 10-12</b>	<input type="checkbox"/> <b>Exam #4 Wed 11/20 open from 1700-2100 CST and covers modules 10-12</b>
14	December 2-8	Wrap Up		<input type="checkbox"/> Discussion Board Reflection over Semester. <input type="checkbox"/> <b>Integrated Pathophysiology &amp; Pharmacology Project</b> due by 12/4 @ 2359

Applicable Degree Essential	DNP Program Outcome	Student Learning Outcome	Course Objectives	Module/Content and Assessment
1, 2, 3, 5, 6, 9, 10	1, 3	1, 2, 3, 5, 6, 8, 9, 10	<p><b>Module 1: Fundamentals of prescribing to the adult and geriatric patient population</b></p> <ol style="list-style-type: none"> <li>1. Prescribe drugs based on knowledge of drug pharmacokinetics and pharmacodynamics as it relates to relevant individual patient characteristics (e.g. age, culture, &amp; gender) <i>[Domain 1, Knowledge for Nursing Practice]</i>.</li> <li>2. Apply pharmacology principles when writing prescriptions for patients evidenced by an 80 or above on the case studies and case study prescriptions.</li> <li>3. Write prescriptions that fulfill the legal requirements for advanced practice nursing prescriptive authority in the student's prospective State as well as in preparation for Board Certification as evidenced by scoring 80 or above on module 1 Discussion Board and Quiz #1 <i>[Domain 1, Knowledge for Nursing Practice; Domain 5, Quality and Safety; Domain 8, Informatics and Healthcare Technologies, Domain 9, Professionalism]</i>.</li> </ol>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Module 1 Introduction post to discussion board in CANVAS</li> <li><input type="checkbox"/> Weekly assigned reading.</li> <li><input type="checkbox"/> Discussion board two responses to peers.</li> </ul>
1, 2, 3, 5, 7, 9	1, 3	1, 2, 3, 4, 8, 9, 10	<p><b>Module 2: Vaccinations, Antimicrobials, Antivirals &amp; Sepsis Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Apply the concepts of mass immunization, immunizations in children, adults, geriatric patients, and patients with a compromised immune system and select the appropriate immunization for each specific group as evidenced by an 80 or above on module Discussion Board, Quiz #1, the final exam and in preparation for Board Certification.</li> <li>2. Apply pharmacology principles and create a pharmacologic treatment plan for the adult and geriatric patient populations in both the acute and critical care areas evidenced by an 80 or above on the case studies throughout the course, module exams, final exam and in preparation for Board Certification.</li> <li>3. Apply pharmacology principles and create an evidence-based treatment plan when prescribing and writing prescriptions for</li> </ol>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Weekly assigned reading.</li> <li><input type="checkbox"/> Module 2 discussion board in CANVAS</li> <li><input type="checkbox"/> Weekly assigned reading.</li> <li><input type="checkbox"/> Discussion board two responses to peers.</li> <li><input type="checkbox"/> Quiz #1</li> </ul>

			antibiotics, antifungals, antiprotozoal, antitubercular, antivirals, anthelmintic medications evidenced by 80 or above on the Discussion Board, Quiz #1, final exam and in preparation for Board Certification.	
1, 2, 3, 4, 5, 6, 9	1, 3	1, 2, 3, 5, 6, 8, 9, 10	<p><b>Module 3: Autoimmune &amp; Disorders of the Eyes and Ears, Musculoskeletal &amp; Integumentary Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Apply pharmacology principles and select evidence-based treatments when prescribing drugs used for dermatologic disorders and metabolic bone diseases.</li> <li>2. Apply pharmacology principles and select evidence-based treatments when prescribing drugs used for rheumatoid arthritis and gout evidenced by 80 or above on the on the Discussion Board, final exam and in preparation of Board Certification.</li> <li>3. Apply pharmacology principles and select evidence-based treatments when prescribing drugs used for Disorders of the Eyes and Ears as evidenced by scoring 80 or above on the on the Discussion Board, Quiz #3, final exam and in preparation of Board Certification.</li> </ol>	<input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Module 3 discussion board in CANVAS <input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Discussion board two responses to peers.
1, 2, 3, 4, 5, 6, 9	1, 3	1, 2, 3, 4, 5, 6, 8, 9, 10	<p><b>Module 4: Neurovascular &amp; Psych Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Apply pharmacology principles and select evidence-based treatments when prescribing drugs affecting the Peripheral Nervous System (PNS) and Central Nervous System (CNS) as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</li> <li>2. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different human diseases affecting the brain as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</li> <li>3. Apply pharmacology principles and create an evidence-based treatment plan when prescribing and writing prescriptions for drugs used for Common Psychiatric Disorders as evidenced by scoring 80 or as evidenced by scoring 80 or above on the Discussion</li> </ol>	<input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Module 4 discussion board in CANVAS <input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Discussion board two responses to peers. <input checked="" type="checkbox"/> <b>Exam #1 covers modules 1-3</b>

			Board, final exam and in preparation of Board Certification.	
<b>1, 2, 3, 4, 5, 6, 7, 9</b>	1, 3	<b>1, 2, 3, 4, 5, 6, 8, 9, 10</b>	<p><b>Module 5: Hematology &amp; Oncology Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different human hematologic and oncologic disorders as evidenced by scoring 80 or above on the Discussion Board, Quiz #2, final exam and in preparation of Board Certification.</li> <li>2. Apply pharmacology principles and select evidence-based treatments when prescribing drugs used for Anemia as evidenced by scoring 80 or above on the Discussion Board, Quiz #2, final exam and in preparation of Board Certification.</li> </ol>	<input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Module 5 discussion board in CANVAS <input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Discussion board two responses to peers. <input type="checkbox"/> Quiz #2
<b>1, 2, 3, 4, 5, 6, 7, 8, 9, 10</b>	1, 3	<b>1, 2, 3, 4, 5, 6, 7, 8, 9, 10</b>	<p><b>Module 6: Cardiovascular &amp; Vascular Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different human diseases affecting the heart and vascular system in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, Quiz #3, final exam and in preparation of Board Certification.</li> <li>2. Apply pharmacology principles and select evidence-based treatments when prescribing drugs affecting the Cardiovascular and Vascular System in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, Quiz #3, final exam and in preparation of Board Certification.</li> </ol>	<input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Module 6 discussion board in CANVAS <input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Discussion board two responses to peers. <input type="checkbox"/> Quiz #3
<b>1, 2, 3, 4, 5, 6, 7, 8, 9, 10</b>	1, 3	<b>1, 2, 3, 4, 5, 6, 8, 9, 10</b>	<p><b>Module 7: Endocrine Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different human endocrine disorders in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</li> <li>2. Apply pharmacology principles and create an evidence-based</li> </ol>	<input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Module 7 discussion board in CANVAS <input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Discussion

			<p>treatment plan when prescribing and writing prescriptions for drugs used in the treatment of diabetes in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</p> <p>3. Apply pharmacology principles and select evidence-based treatments when prescribing drugs use for thyroid disorders in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification</p>	<p>board two responses to peers.</p> <p><input type="checkbox"/> Exam #2 covers modules 4-6</p>
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	<p><b>Module 8: Pulmonary Acute &amp; Critical Care Clinical Management</b></p> <p>1. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different human pulmonary disorders in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</p> <p>2. Apply pharmacology principles and create an evidence-based treatment plan when prescribing and writing prescriptions for drugs used for disorders of the respiratory system in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification</p>	<p><input type="checkbox"/> Weekly assigned reading.</p> <p><input type="checkbox"/> Module 8 discussion board in CANVAS</p> <p><input type="checkbox"/> Weekly assigned reading.</p> <p><input type="checkbox"/> Discussion board two responses to peers.</p>
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 3	1, ,2, 3, 4, 5, 6, 8, 9, 10	<p><b>Module 9: Genitourinary, Renal &amp; Electrolytes Acute &amp; Critical Care Clinical Management</b></p> <p>1. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different human reproductive, genitourinary, and renal disorders in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, Quiz #4, final exam and in preparation of Board Certification.</p> <p>2. Apply pharmacology principles and select evidence-based treatments when prescribing drugs for women: contraception, drugs used to treat menopausal symptoms, drugs used to treat infections in the genitourinary system, and drugs to treat incontinence in women as evidenced by scoring 80 or above on the Discussion Board, Quiz #4, final exam and in preparation of Board</p>	<p><input type="checkbox"/> Weekly assigned reading.</p> <p><input type="checkbox"/> Module 9 discussion board in CANVAS</p> <p><input type="checkbox"/> Weekly assigned reading.</p> <p><input type="checkbox"/> Discussion board two responses to peers.</p> <p><input type="checkbox"/> Quiz #4</p>



			<p>Certification</p> <ol style="list-style-type: none"> <li>3. Apply pharmacology principles and select evidence-based treatments when prescribing testosterone, drugs to treat BPH, and drugs used to treat erectile dysfunction in men as evidenced by scoring 80 or above on the Discussion Board, Quiz #4, final exam and in preparation of Board Certification.</li> <li>4. Apply pharmacology principles and select evidence-based treatments when prescribing drugs affecting the renal system in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, Quiz #4, final exam and in preparation of Board Certification.</li> <li>5. Apply pharmacology principles and select evidence-based treatments when prescribing drugs used for metabolic and electrolyte derangements.</li> </ol>	
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 3	1, 2, 3, 4, 5, 6, 8, 9, 10	<p><b>Module 10: Gastrointestinal Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different human gastrointestinal disorders in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</li> <li>2. Apply pharmacology principles and select evidence-based treatments when prescribing drugs used for gastrointestinal disorders in acutely and critically ill patients as evidenced by scoring 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</li> </ol>	<input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Module 10 discussion board in CANVAS <input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Discussion board two responses to peers. <input type="checkbox"/> <b>Exam #3 covers modules 7-9</b>
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 3	1, 2, 3, 4, 5, 6, 8, 9, 10	<p><b>Module 11: Perioperative, Acute &amp; Chronic Pain; Weight-loss, Vitamins, &amp; Herbs Acute &amp; Critical Care Clinical Management</b></p> <ol style="list-style-type: none"> <li>1. Apply pharmacology principles and select evidence-based treatments when prescribing drugs used for the patient experiencing perioperative pain, acute exacerbation and chronic pain or inflammation evidenced by 80 or above on the Discussion Board, final exam and in preparation of Board Certification.</li> <li>2. Assess the side effect profile and safety of vitamins and herbal</li> </ol>	<input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Module 11 discussion board in CANVAS <input type="checkbox"/> Weekly assigned reading. <input type="checkbox"/> Discussion board two

			<p>medications and select appropriate ones when indicated for your patient as evidenced by scoring 80 or above on the Discussion Board, Quiz # 5 final exam and in preparation of Board Certification.</p> <p>3. Assess the side effect profile, possible interactions and safety of drugs for weight loss in the adult and geriatric patients that are acutely or critically ill as evidenced by scoring 80 or above on the Discussion Board, Quiz # 5, final exam and in preparation of Board Certification.</p>	<p>responses to peers.</p> <p><input type="checkbox"/> Quiz #5</p>
<b>1, 2, 3, 4, 5, 6, 7, 8, 9, 10</b>	1, 3	<b>1, 2, 3, 4, 5, 6, 8, 9, 10</b>	<p><b>Module 12: Shock, Trauma, and CODES</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate both knowledge and conceptual understanding of the use and action of various classes of drugs in the treatment of different categories of shock.</li> <li>2. Demonstrate both knowledge and conceptual understanding while applying pharmacology principles and select evidence-based treatments when prescribing drugs used for trauma resuscitation.</li> <li>3. Adhere to and demonstrate understanding of ACLS algorithms and AHA guidelines when leading resuscitation efforts during CODE BLUE situations.</li> </ol>	<p><input type="checkbox"/> Weekly assigned reading.</p> <p><input type="checkbox"/> Module 12 discussion board in CANVAS</p> <p><input type="checkbox"/> Weekly assigned reading.</p> <p><input type="checkbox"/> Discussion board two responses to peers.</p> <p><input type="checkbox"/> <b>Exam #4 covers modules 10-12</b></p>

**School of Nursing Policies and Additional Information:**

[https://www.utt Tyler.edu/nursing/college/student\\_guide\\_and\\_policies.php](https://www.utt Tyler.edu/nursing/college/student_guide_and_policies.php)

**Student Resources and University Policies are provided in Canvas.**