



**NURS 5355**  
**Integrated Advanced Health Assessment, Pathophysiology, and Pharmacology**  
**Spring 2022**  
**Scheduled Class Days and Times: Online**

**Instructor's Name:** Katheryn Courville Johnston, PhD RN CEN NHDP-BC (all sections)

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**Office Hours:** Virtual Office Hours: (Tuesdays 1300 - 1600) CST and available via appointment, email, conference call, and/or Zoom.

\*Best way to contact me.

**Course Description:** This course is designed for the master's students who are not planning to pursue a nurse practitioner certification. Students will integrate concepts of advanced pathophysiology and advanced pharmacology to apply advanced health assessment principles and skills for comprehensive examination of clients. Focus will be on common deviations from normal. Populations across the lifespan will be included.

No on-campus meetings are required for this course. Web-based conferences will be employed to supplement online work throughout the semester.

**Prerequisite:** Admission to MSN Edu program or enrolled in the PhD in Nursing program

**Student Learning Outcomes:**

Building upon basic health (physical & mental) assessment, pathophysiology, and pharmacology (3Ps) knowledge, this course focuses on the application and synthesis of this knowledge for clinical decision-making. Upon successful completion of this course, the student will be able to:

1. Master and apply advanced concepts in **health assessment** including interviewing for holistic health history, advanced health examination, documentation strategies, and frameworks for diagnostic reasoning (mini-lectures)
2. Master and apply advanced concepts in **pharmacology** including pharmacodynamic and pharmacokinetic properties of drugs, pharmacogenetic concepts influencing drug therapy, legal prescription writing techniques for controlled substances, and advances in safe medication administration (mini-lectures)
3. Master and apply advanced concepts in **pathophysiology** including genetics and epigenetics, the influence of neurobiology on daily functioning and mental health, inflammation and its role in disease, and all major body systems. (mini-lectures)

4. Appraise current topics impacting pharmacologic treatment (novel treatments for cancer, antimicrobial resistance, opioid overuse and abuse, etc.)
5. Synthesize clinical diagnoses from information from multiple sources (patient history, health assessment, review of systems, lab reports, and medication history).
6. Integrate pathophysiologic concepts of disease in the assessment and treatment of patients across the life span (mini-lectures)
7. Integrate pharmacologic concepts as well as non-pharmacologic concepts into a patient-centered care plan (mini-lectures)
8. Collaborate with team members to develop an effective, evidence-based, safe, individualized plan of care for the patient that takes into consideration life circumstances, cultural, ethnic, and developmental variations.

### Required Textbooks and Readings:

This course combines required content that is traditionally taught in three separate courses. Textbooks are needed to fully understand advanced content and to be successful in various activities in the course. Textbooks are expensive, so purchase only if you feel you will be using them in the future. Otherwise, renting is a good option.

#### REQUIRED

Resource Author / Publisher	Resource Name	Edition	Ordering Instructions
Shadow Health	Shadow Health Digital Clinical Experience (simulation software)		See ordering instructions in Canvas Course Docs
EBSCO	DynaMed Plus Web-based Resource		Free Subscription through UTT Library – see below

#### RECOMMENDED

McCance, K. L., & Huether, S. E. (2019)	Pathophysiology	8th ed.	ISBN: 9780323583473
Burchum, J., & Rosenthal, L. (2022)	Lehne's Pharmacology for Nursing Care	11th ed.	ISBN: 9780323825221
Rhoads, J., Demler, T. L., & Dlugasch, L. (2021)	Advanced Health Assessment and Diagnostic Reasoning	4th ed	ISBN: 9781284170313

**ELECTRONICSUBSCRIPTIONS**

**DynaMed Plus** (Required): Free through UTT library. Medications source for clinicians. Located within the library site's databases. If access from off-campus, please contact your instructor for special link.

**EMedicine by Medscape** (Recommended): Free online source for diseases and drug monographs. Registration is required. Extras include CEUs, alerts on favorite topics, and articles on current topics.

**Estimated Time Required for Completion of Assignments:**

To accomplish the required weekly tasks, set aside at least 8 hours per week for this class. Reading of professional materials (books, journals, etc.) is an integral aspect of role development of the masters prepared nurse. Each module will include articles and research on clinical topics and professional issues. Note that additional hours may be necessary to fully comprehend the didactic content as well as the clinical skills.

Every student is responsible for completing the recommended reading, completing the course module components, assignments, and quizzes according to due dates in the course calendar. Reading assignments consist of associated materials in the course textbooks and this list may be viewed on the course calendar and in each module. All assignments are made with the assumption that required reading assignments will be completed prior to completion of the assignments.

**Assignments and Weights/Point Values:**

<b>Criteria for Evaluation:</b>	<b>Percentage of Grade:</b>
Mini-Lectures	25%
Case Analyses	25%
Grand Rounds	25%
Shadow Health Virtual Assessment	25%

**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.

**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 them or uploading them to online resources destroys the integrity of the assignment and the course, allowing others an unfair advantage by letting them view the materials.
- Uploading these materials to online resources is a violation of UT Tyler's academic misconduct policies and may result in formal conduct charges.
- Sanctions for uploading or otherwise divulging the contents of these materials can include:
  - a reduced or failing grade on an assignment
  - a reduced or failing grade for the course
  - removal from the Nursing program
  - removal from UT Tyler

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

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

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

**Graded Course Requirements Information:**

- **CASE ANALYSIS**

The purpose of this assignment is to apply 3Ps concepts in an unfolding case study on a particular disease topic for a particular patient. The questions within each document ask for detailed, graduate-level explanations of the 3Ps concepts.

Course Learning Objectives in Syllabus: 1, 2, 3, 4, 5, 6, 7

- **GRAND ROUNDS PRESENTATION**

The purpose of this assignment is to synthesize your knowledge of the 3Ps for one disease process that is affecting one particular patient. Each module, you will add sections to the 3Ps Write-Up and your patient's case. At the end of the semester, everyone will have a Grand Rounds Presentation that includes an entire Write-Up on the disease process and a story of your Case Patient.

Course Learning Objectives in Syllabus: 1, 2, 3, 4, 5, 6, 7, 8

- **MINI-LECTURES**

The purpose of this assignment is to allow students to conduct in-depth research on an advanced 3Ps concept, teach the concept via a recorded Zoom session, and evaluate audience's understanding by asking questions. Each student records a 5 to 7 minute Mini-Lecture on an assigned concept (see specific module for your assigned topic). Then, each student will view other students' Mini-Lectures and post an answer to a posted question.

Course Learning Objectives from Syllabus: 1, 2, 3, 6, 7

- **SHADOW HEALTH ASSIGNMENT**

The purpose of this assignment is to allow students to review and practice health assessment techniques on an interactive, virtual patient. This is a self-study module.

Course Learning Objectives from Syllabus: 1, 5

### Calendar of Topics, Readings, and Due Dates:

*Note the last date to drop the course is included in the calendar along with the final exam date and time. These are required. Students HIGHLY recommend that you link the assignments to the Canvas calendar. That comes up on their phones*

Wk	Main Concept	Mini-Lectures <i>Initial Post – Sat</i> <i>Peer-Eval - Tue</i>	Unit specific Assignments	Grand Rounds <i>Initial Post – Sat</i> <i>Response – Tue</i>	Shadow Health©	Due Mon@ MN
1	Advanced Patho physiology		Zoom Meeting: tba  Grad Nsg Forms	Submit Patient for Grand Rounds Case. Email Dr. Courville (1)		1/17  (2 hours)
2		Patho concepts mini-lectures (4)		Patho of disease (Write-Up Section I) (4)		1/24  (8 hours)
3		Responses (2)		2 Responses (2)		1/31  (4 hours)
4	Advanced Health Assessmt	AHA concepts mini-lectures (4)			Digital Clinical Experience (DCE) Orientation (Approx 20 min) (P/F)  Conversation	2/7  (7.5 hours)

<b>Wk</b>	<b>Main Concept</b>	<b>Mini-Lectures</b> <i>Initial Post – Sat</i> <i>Peer-Eval - Tue</i>	<b>Unit specific Assignments</b>	<b>Grand Rounds</b> <i>Initial Post – Sat</i> <i>Response – Tue</i>	<b>Shadow Health®</b>	<b>Due Mon@ MN</b>
					Concept Lab (~ 40 min) (P/F)  Health History (~150 min) (P/F)	
5					Respiratory Concept Lab (~25 min) (P/F)  Respiratory (~75 min) (100pts)  Focused Exam: Cough (~75 min) (100pts)	2/14  (3 hours)
6		Responses (2)		Clinical Presentation of disease (Write-Up Section II)  Clinical presentation of your patient (4)	Abdominal Concept Lab (~25 min) (P/F)  Gastrointestinal (~75 min) (100pts)  Focused Exam: Abdominal Pain (~75 min) (100pts)	2/21  (9 hours)
7			NIHSS Stroke Scale (you may earn CEs) (2+)	2 Responses (2)	Cardiovascular Concept Lab (~25 min) (P/F)  Cardiovascular (~75 min) (100pts)  Focused Exam: Chest Pain (~75 min) (100pts)	2/28  (8+)
8	Advanced Pharmacology	Pharm concepts mini-lectures				3/14  (4)

<b>Wk</b>	<b>Main Concept</b>	<b>Mini-Lectures</b> <i>Initial Post – Sat</i> <i>Peer-Eval - Tue</i>	<b>Unit specific Assignments</b>	<b>Grand Rounds</b> <i>Initial Post – Sat</i> <i>Response – Tue</i>	<b>Shadow Health©</b>	<b>Due Mon@ MN</b>
		(4)				
<b>SPRING BREAK 3/7 – 3/11</b>						
9		Responses (2)		Disease Management (Write-Up Section III)  Disease mgt for your patient (4)		3/21  (6)
10				2 Responses (2)	Comprehensive Assessment (~75 min) (100 pts) (2)	3/28  (6)
11	Integration of 3Ps		Case #1 (6)			4/4  (6)
12			Case #2 (6)			4/11  (6)
13			Case #3			4/18  (6)
14	Final Zoom sessions			Grand Rounds Presentations (6) (Students must attend 2 of 3 Zoom sessions to get full credit)		(6)

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

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

**Student Resources to assist you in this course:**

[UT Tyler Student Accessibility and Resource \(SAR\) Office](#) (provides needed accommodations to students with document needs related to access and learning)

[UT Tyler Writing Center](#)

[The Mathematics Learning Center](#)

[UT Tyler PASS Tutoring Center](#)

[UT Tyler Supplemental Instruction](#)

[Upswing \(24/7 online tutoring\) - covers nearly all undergraduate course areas](#)

[Robert Muntz Library \(Links to an external site.\)](#) and [Library Liaison](#)

[Canvas 101](#) (learn to use Canvas, proctoring, Unicheck, and other software)

Digital Support Toolkit (for supported courses only. Students are automatically enrolled in the toolkit for supported courses)

LIB 422 -- Computer Lab where students can take a proctored exam

[The Career Success Center](#)

[UT Tyler Testing Center](#)

[Office of Research & Scholarship Design and Data Analysis Lab](#)

**Resources available to UT Tyler Students**

[UT Tyler Counseling Center](#) (available to all students)

[TAO Online Support Center](#) (online self-help modules related to mental & emotional health)

[Military and Veterans Success Center](#) (supports for all of our military affiliated students)

[UT Tyler Patriot Food Pantry](#)

[UT Tyler Financial Aid and Scholarships](#)

[UT Tyler Registrar's Office](#)

[Office of International Programs](#)

[Title IX Reporting](#)

[Patriots Engage](#) (available to all students. Get engaged at UT Tyler.)

**University Policies and Information**

**Withdrawing from Class:** Students you are allowed to [withdraw](#) (drop) from this course through the University's [Withdrawal Portal](#). Texas law prohibits students who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at other 2-year or 4-year Texas public colleges and universities. Make sure to consider the impact withdrawing from this class has on your academic progress as well as the financial implications. We encourage you to consult your advisor(s) and financial aid for additional guidance. CAUTION #1: Withdrawing before census day does not mean you get a full refund. Please see the [Tuition and Fee Refund Schedule](#). CAUTION #2: All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms.

**Final Exam Policy:** Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the dean of the



appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members are required to maintain student final examination papers for a minimum of three months following the examination date.

**Incomplete Grade Policy:** If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in lieu of a grade only when all of the following conditions are met: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all course work or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor; and (c) the student presents these reasons prior to the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average for a student.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to complete all of the work for the course within the time limit, then the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has not been assigned within one year, then the Incomplete will be changed to an F, or to NC if the course was originally taken under the CR/NC grading basis.

**Grade Appeal Policy:** UT Tyler's Grade Appeal policy requires the completion of a Grade Appeal form for this action to take place. The grade appeal begins with the instructor of your course. If you do not agree with the decision of the instructor, you may then move your appeal to the department chair/school director for that course. If you are still dissatisfied with the decision of the chair/director, you may move the appeal to the Dean of the College offering that course who has the final decision. Grade appeals must be initiated within sixty (60) days from the date of receiving the final course grade. The Grade Appeal form is found on the [Registrar's Form Library](#).

**Disability/Accessibility Services:** The University of Texas at Tyler has a continuing commitment to providing reasonable accommodations for students with documented disabilities. Students with disabilities who may need accommodation(s) in order to fully participate in this class are urged to contact the Student Accessibility and Resources Office (SAR) as soon as possible to explore what arrangements need to be made to ensure access. If you have a disability, you are encouraged to visit the [SAR Portal \(https://hood.accessiblelearning.com/UTTyler/\)](https://hood.accessiblelearning.com/UTTyler/) and complete the New Student Application. For more information, please visit the [SAR webpage](#) or call 903.566.7079.

**Military Affiliated Students:** UT Tyler honors the service and sacrifices of our military affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with me if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make me aware of any complications as far in advance as possible. I am willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. Campus resources for

military affiliated students are in the [Military and Veterans Success Center \(MVSC\)](#)). The MVSC can be reached at MVSC@uttyler.edu, or via phone at 903.565.5972.

**Academic Honesty and Academic Misconduct:** The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual Of Operating Procedures (Section 8).

**FERPA:** UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements in protecting your confidential information.

### **COVID Guidance**

**Information for Classrooms and Laboratories:** Students are required to wear face masks covering their nose and mouth, and follow social distancing guidelines, at all times in public settings (including classrooms and laboratories), as specified by [Procedures for Fall 2020 Return to Normal Operations](#). The UT Tyler community of Patriots views adoption of these practices consistent with its [Honor Code](#) and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.

Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature will be excused from class and should stay at home and may join the class remotely. Students who have difficulty adhering to the Covid-19 safety policies for health reasons are also encouraged to join the class remotely. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email [saroffice@uttyler.edu](mailto:saroffice@uttyler.edu).

**Recording of Class Sessions:** Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

**Absence for Official University Events or Activities:** This course follows the practices related to approved absences as noted by the Student Manual of Operating Procedures ([Sec. 1 -501](#)).

**Absence for Religious Holidays:** Students who anticipate being absent from class due to a religious holiday are requested to inform the instructor by the second class meeting of the semester.

**Campus Carry:** We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.