PHAR 7586 Integrated Pharmacotherapy 6: Psychiatry, Neurology, and Pain Management
Fall 2025

Course Description
This course integrates knowledge pathophysiology, pharmacology, and pharmacotherapy to make appropriate treatment recommendations for pain management and for patients with psychiatric and neurologic disorders.

Additional Course Information
This course introduces the pharmacy student to a variety of psychiatric and neurologic disorders. Students will integrate knowledge of pathophysiology, pharmacology, pharmacokinetics, and pharmacotherapy to make appropriate treatment recommendations.

Course Credit: 5 credit hours

Pre-Requisites: P3 standing

Co-Requisites: None

Class Meeting Days, Time & Location:
Mondays, 1:00 pm – 3:30 pm and Tuesdays, 2:00-4:30 pm; W.T. Brookshire Hall 234
EXCEPT FOR TUESDAY 9/2. THIS CLASS SESSION WILL MEET ON WEDNESDAY 9/3 FROM 9-11:30 AM IN 234

Course Coordinator:
Rachel A. Bratteli, PharmD, BCACP
W.T. Brookshire Hall - Room 250
Phone number: 903.566.6165
Email: rbratteli@uttyler.edu
Office hours: Tuesdays and Thursdays 12:00 – 1:00 pm via Zoom or by appointment
https://uttyler.zoom.us/j/87613568579?pwd=Q2R5NndDVzBFS0JGN3pReEpPVFFxdz09

- **Meeting ID:** 876 1356 8579
- **Passcode:** 181130

Preferred method of contact: Email

Fisch College of Pharmacy (FCOP) and UT Tyler Policies
This is Part 1 of the syllabus. Part 2 contains UT Tyler and the FCOP policies and procedures. For experiential courses (i.e., IPPE and/or APPE), the Experiential Manual contains additional policies and instructions that supplement the Syllabus Part 1 and 2. Please note, the experiential manual may contain policies with different deadlines and/or instructions. The manual should be followed in these cases.

Required Materials
Most course required materials are available through the Robert R. Muntz Library. These materials are available either online* (http://library.uttyler.edu/) or on reserve.

1. *DiPiro JT, Talbert RL, Yee GC, Matzke GR, Wells BG, Posey L. eds. Pharmacotherapy: A Pathophysiologic Approach, 11e. New York, NY: McGraw-Hill. 2020.
2. *DiPiro JT, Yee GC, Posey LM, Haines ST, Nolin TD, Ellingrod VL. eds. DiPiro's Pharmacotherapy: A Pathophysiologic Approach, 12e. New York, NY: McGraw-Hill. 2022.
3. *Hammer GD and McPhee SJ, eds. Pathophysiology of Disease: An Introduction to Clinical Medicine (8th Edition). Lange-McGraw Hill. 2019.
4. *Katzung BG, Vanderah TW, eds. Basic and Clinical Pharmacology (15th Edition). Lange-McGraw Hill. 2021.
5. Other required materials will be posted on the class Canvas site

Recommended Materials

The course recommended materials are on reserve at the Robert R. Muntz Library.

1. Lee M. Basic Skills in Interpreting Laboratory Data. 5th Edition. American Society of Health-System Pharmacists. 2013. ISBN: 978-1-58528-343-9
2. Roche VF, Zito SW, Lemke TL, Williams DA, eds. Foye's Principles of Medicinal Chemistry, 8th ed. Wolters Kluwer Health. 2019. ISBN 978-1-49638-502-4

Course Format

The course may include, but are not limited to, the following activities:

1. Independent study of selected readings
2. Individual readiness assessment tests (iRATs)
3. Lecture
4. Active learning strategies
5. Team-based learning strategies:
    a. Team readiness assessment tests (tRATs)
    b. Team application of content and concepts

Course Learning Outcomes (CLOs)

CLOs	PLO(s)	EPAs	ACPE Appendix 1 (names)	ACCP Didactic Toolkit (names)	NAPLEX (1.A.1 – 5.D)	Assessment Methods (1-13)
1. Identify psychiatric and neurologic disorders and medication-related problems in these patients.	1,2	N/A	Pathology/Pathophysiology Pharmacology Clinical Laboratory Data Patient Assessment Patient Safety	Headache Pain, neuropathic Pain, nocioceptive Epilepsy Essential tremor Fibromyalgia Multiple sclerosis Neurocogntivie disorders Parkinson's Sleep-wake disorders Status epilepticus Anxiety disorders Depressive	2.A.3, 2.A.4, 2.A.5 3.A, 3.B, 3.C, 3.C.1, 3.C.2, 3.C.3, 3.C.4, 3.C.5	1, 2, 3, 9
2. Evaluate pharmacologic treatment options for pain management and	1,2,5,7,9	N/A	Pharmacotherapy Pharmacology		1.A.1, 2.A.1, 2.A.2, 3.D, 3.D.1, 3.D.2, 3.D.3	1, 2, 3, 9

psychiatric and neurologic disorders.				disorders Insomina Opioid use disorder Tobacco/nicotine use disorder Alcohol use disorder ADHD Bipolar disorder Schizophrenia PTSD		
3. Recommend appropriate non-pharmacologic and pharmacologic treatment options for pain management and patients with psychiatric and neurologic disorders.	1,2,5,7,9	N/A	Pharmacotherapy		1.A.1, 2.A.1, 2.A.2, 3.D, 3.D.1, 3.D.2, 3.D.3	1, 2, 3, 9
4. Educate patients and caregivers about psychiatric and neurologic medications.	3,4,5,12	N/A	Professional Communication Pharmacology Pharmacotherapy		3.E, 3.E.1, 3.E.3	1, 2, 3, 9

Course Summative Assessment Methods

	Assessment/Examination Method
1	Question-based examination (ExamSoft-based)

Grading Policy & Grade Calculation

Grades will be determined based on evaluation of assignments, formative assessments (for learning), and summative assessments (for mastery). For all intents and purposes, final examinations are synonymous with summative assessments. Assessments may consist of, but are not limited to, multiple-choice, true/false, fill in the blank, short-answer, essay, and problem-based questions. They may also include a variety of formats beyond the traditional question-based written examination, as each CLO may require different methods to determine student achievement.

Assignments, formative, and summative assessments may be **cumulative.** Students are responsible for material presented during prior courses. The grading scale for all graded material is below. The final course grade will be assigned according to the calculated percentage and the percentages will not be rounded upward or downward. For additional information, see Part 2 of the syllabus.

During the time the course is in progress, students who obtain less than 75% on any summative assessment or a total course grade of less than 75% during a particular semester will receive an academic alert from the

course coordinator and the Office of Academic Affairs and be subject to weekly in-course remediation with the course instructor(s).

Standard Grade Calculation	
Individual Applications/Activities/iRATs	5%
Midterm 1	20%
Midterm 2	20%
Midterm 3	20%
Final Exam	30%
Team Applications	5%
Total	**100%**

The final course letter grade will be as follows:

A	90 - 100 %
B	80 - 89.999 %
C	70 - 79.999 %
D	65.0 - 69.999 %
F	< 65.0 %

Appropriate Use of Artificial Intelligence

For this course, Artificial intelligence (AI) tools (such as ChatGPT or Copilot) are permitted only for specific assignments or situations. ***When AI use is permissible, it will be clearly stated*** in the assignment directions, and all use of AI must be appropriately acknowledged and cited. Otherwise, ***the default is that AI is not allowed*** during any stage of an assignment.

PHAR 7586 Course Schedule

Week	Day	TOPIC	Instructor	CLO
1	M: 8/25	Course Overview Medicinal Chemistry: Anticonvulsants and Opioids	Bratteli Abdelaziz	2
	Tu: 8/26	Medicinal Chemistry: Anti-Parkinson's agents and Antipsychotics	Abdelaziz	2
2	M: 9/1	Labor Day		
	9/3 Wednesday **WTB 234 9-11:30am**	Medicinal Chemistry: Sedative/Hypnotic/Anxiolytics and Antidepressants	Abdelaziz	2
3	M: 9/8	Pharmacotherapy: Mild-Moderate Pain	Cocchio	1,2,3,4
	Tu: 9/9	Pharmacotherapy: Severe Pain	Cocchio	1,2,3,4
4	M: 9/15	**Midterm 1**		
	Tu: 9/16	Pharmacotherapy: Neuropathic pain	Schwartz	1,2,3,4
5	M: 9/22	Pharmacotherapy: Headache/Migraine	Cocchio	1,2,3,4
	Tu: 9/23	Pharmacotherapy: Multiple Sclerosis/Fibromyalgia	Cocchio	1,2,3,4
6	M: 9/29	Pharmacotherapy: Alcohol Use Disorder	Cocchio	1,2,3,4
	Tu: 9/30	Pharmacotherapy: Opioid Use Disorder	Schwartz	1,2,3,4
7	M: 10/6	**Midterm 2**		
	Tu: 10/7	Pharmacotherapy: Smoking Cessation	Schwartz	1,2,3,4
8	M: 10/13	Pharmacotherapy: Epilepsy	Cocchio	1,2,3,4
	Tu: 10/14	Pharmacotherapy: Essential Tremor	Cocchio	1,2,3,4
9	M: 10/20	Pharmacotherapy: Parkinson's Disease	Cocchio	1,2,3,4
	Tu: 10/21	Pharmacotherapy: Alzheimer's Disease	Schwartz	1,2,3,4
10	M: 10/27	Pharmacotherapy: Schizophrenia	Bratteli	1,2,3,4
	Tu: 10/28	Pharmacotherapy: ADHD	Brown	1,2,3,4
11	M: 11/3	**Midterm 3**		
	Tu: 11/4	Pharmacotherapy: Anxiety Disorders	Brown	1,2,3,4
12	M: 11/10	Pharmacotherapy: Depression	Brown	1,2,3,4
	Tu: 11/11	Pharmacotherapy: Depression	Brown	1,2,3,4
13	M: 11/17	Pharmacotherapy: Insomnia /Narcolepsy/RLS/OSA/Other sleep disorders	Brazill	1,2,3,4
	Tu: 11/18	Pharmacotherapy: PTSD	Bratteli	1,2,3,4
	M: 11/24	Thanksgiving		
	Tu: 11/25	Thanksgiving		
14	M: 12/1	Pharmacotherapy: Bipolar Disorder	Brown	1,2,3,4
	Tu: 12/2	Final Review	All	
15	Wednesday 12/10	**Cumulative Final Exam (9a – 12p)**		

Please note that dates, topics, and assignments are subject to change. In the event of a change, you will be given ample notification of the change. Lecturer will inform students if there is an iRAT/tRAT for that lecture day.