

PHAR 7586 Integrated Pharmacotherapy 6: Psychiatry, Neurology, and Pain Management Fall 2026

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, 2:00pm-4:30pm and Thursdays, 9:30am-12:00pm; W.T. Brookshire Hall 234

Course Coordinator:

Christian Brown, PharmD, BC-ADM

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Office hours: Tuesdays and Thursdays 12:15 – 1:00 pm

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, Yee GC, Posey LM, Haines ST, Nolin TD, Ellingrod VL. eds. DiPiro's Pharmacotherapy: A Pathophysiologic Approach, 12e. New York, NY: McGraw-Hill. 2022.
2. *Hammer GD and McPhee SJ, eds. Pathophysiology of Disease: An Introduction to Clinical Medicine (8th Edition). Lange-McGraw Hill. 2019.
3. *Katzung BG, Vanderah TW, eds. Basic and Clinical Pharmacology (15th Edition). Lange-McGraw Hill. 2021.
4. 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
3. Mobley WC, Li RM. *Integrated Critical Thinking and Clinical Reasoning in Pharmacy Practice*. 1st ed. McGraw Hill; 2023:384.

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) or pre-class quizzes
3. Lecture
4. Active learning strategies
5. Team-based learning strategies:
 - a. Team readiness assessment tests (tRATs)
 - b. Team application of content and concepts
 - c. Complex cases

Course Learning Outcomes (CLOs)

CLOs	PLO(s) Assessed for this CLO (1-12)	EPAs (1-13)	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 therapy-related problems in patients.	1,2	N/A	Pathology/Pathophysiology Pharmacology Clinical Laboratory Data Patient Assessment Patient Safety	Headache Pain, neuropathic Pain, nociceptive Epilepsy Essential tremor Fibromyalgia Multiple sclerosis Neurocognitive disorders Parkinson's	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, 6, 8, 9
2. Evaluate pharmacologic treatment options for pain management and psychiatric and neurologic disorders.	1,2,5,7,9	N/A	Pharmacotherapy Pharmacology	Sleep-wake disorders Status epilepticus Anxiety disorders Depressive disorders Insomnia Opioid use disorder	1.A.1, 2.A.1, 2.A.2, 3.D, 3.D.1, 3.D.2, 3.D.3	1, 2, 3, 6, 8, 9
3. Recommend appropriate non-pharmacologic	1,2,5,7,9	N/A	Pharmacotherapy	Tobacco/nicotine use disorder Alcohol use	1.A.1, 2.A.1, 2.A.2, 3.D,	1, 2, 3, 6, 8, 9

and pharmacologic treatment options for pain management and patients with psychiatric and neurologic disorders.				disorder ADHD Bipolar disorder Schizophrenia PTSD	3.D.1, 3.D.2, 3.D.3	
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, 6, 8, 9

Course Summative Assessment Methods

	Assessment/Examination Method
1	Question-based examination (ExamSoft-based)
2	Question-based examination (paper-based)
3	Comprehensive Case
4	Skills Assessment
5	OSCE
6	Team Project
7	Individual Project
8	Oral Presentation
9	SOAP Note
10	Reflection Essay
11	Simulation
12	Internship/Observation
13	Other major assignment. Please specify:

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	25%
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	Mon 8/24	Course Overview Medicinal Chemistry: Anticonvulsants and Opioids	Brown Abdelaziz	2
	Thurs 8/27	Medicinal Chemistry: Anti-Parkinson's agents and Antipsychotics	Abdelaziz	2
2	Mon 8/31	Medicinal Chemistry: Sedative/Hypnotic/Anxiolytics and Antidepressants	Abdelaziz	2
	Thurs 9/3	Pharmacotherapy: Smoking Cessation	Brown	1,2,3,4
3	Mon 9/7	LABOR DAY- No class		
	Thurs 9/10	Pharmacotherapy: Depression	Brown	1,2,3,4
4	Mon 9/14	Pharmacotherapy: Depression (continued)	Brown	1,2,3,4
	Thurs 9/17	Midterm 1		
5	Mon 9/21	Pharmacotherapy: Anxiety Disorders	Brown	1,2,3,4
	Thurs 9/24	Pharmacotherapy: ADHD	Brown	1,2,3,4
6	Mon 9/28	Pharmacotherapy: Bipolar Disorder	Brown	1,2,3,4
	Thurs 10/1	Pharmacotherapy: Schizophrenia	Bratteli	1,2,3,4
7	Mon 10/5	Pharmacotherapy: Nociceptive Pain (Mild, Mod, Severe)	Cocchio	1,2,3,4
	Thurs 10/8	Pharmacotherapy: Neuropathic pain	Schwartz	1,2,3,4
8	Mon 10/12	Complex Case Week: Pain management, Mood, and GI	Brown	1,2,3,4
	Thurs 10/15	Complex Case Week: Pain management, Mood, and GI	Gutierrez	1,2,3,4
9	Mon 10/19	Midterm 2		
	Thurs 10/22	Pharmacotherapy: Headache/Migraine	Cocchio	1,2,3,4
10	Mon 10/26	Pharmacotherapy: MS/Fibromyalgia	Cocchio	1,2,3,4
	Thurs 10/29	Pharmacotherapy: Epilepsy	Cocchio	1,2,3,4
11	Mon 11/2	Pharmacotherapy: Parkinson's Disease and Essential Tremor	Cocchio	1,2,3,4
	Thurs 11/5	Pharmacotherapy: Alzheimer's Disease	Schwartz	1,2,3,4
12	Mon 11/9	Case Day: Neurologic/Movement Disorders	Cocchio Brown	1,2,3,4
	Thurs 11/12	Midterm 3		
13	Mon 11/16	Pharmacotherapy: Alcohol Use Disorder	Cocchio	1,2,3,4
	Thurs 11/19	Pharmacotherapy: Opioid Use Disorder	Schwartz	1,2,3,4
	Mon 11/23	Thanksgiving Break		
	Thurs 11/26	Thanksgiving Break		
14	Mon 11/30	Pharmacotherapy: PTSD Pharmacotherapy: Insomnia/RLS/OSA	Bratelli Brazill	1,2,3,4
	Thurs 12/3	Progressive Case Comprehensive Review	All	1,2,3,4
15	Wed 12/9	Cumulative Final Exam (9a – 11a)		

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