

Integrated Pharmacotherapy 6: Psychiatry, Neurology, and Pain Management (Ptx-6)

PHAR 7586

Fall Semester 2020

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

Monday 2-5 pm and Friday 2-4 pm; W.T. Brookshire Hall room #133 and 136

Classes may be face to face or online.

Course Coordinator

Brittany Parmentier, PharmD, BCPS, BCPP

W.T. Brookshire Hall Room 251

Phone number: 903.565.6525

Email: bparmentier@uttyler.edu

Office hours: Friday 12:30-2 or by appointment

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 course policies and procedures and Part 3 contains policies specific to Fall 2020. These are available as a PDF at

<https://www.uttyler.edu/pharmacy/academic-affairs/>. 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.
2. *Pathophysiology of Disease: An Introduction to Clinical Medicine (7th Edition). Hammer GD and McPhee SJ. Lange-McGraw Hill. ISBN: 978-0-07-180600-8, 2014.

3. *Basic and Clinical Pharmacology (12th Edition). Katzung BG, Masters SB, Trevor AJ. Lange-McGraw Hill. ISBN: 978-0-07-176401-8, 2012.
4. **Other required materials will be posted on the classes' Canvas site. The site address is: uttyler.edu/canvas.**

Recommended Materials

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

1. Basic Skills in Interpreting Laboratory Data. 5th Edition. Lee M. American Society of Health-System Pharmacist. ISBN: 978-1-58528-343-9, 2013.
2. Foye's Principles of Medicinal Chemistry, 8th ed. (2019) Thomas Lemke et. al. Wolters Kluwer Health.

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. Team-based learning, active learning strategies:
 - a. Team readiness assessment tests (tRATs)
 - b. Team application of content and concepts
4. Face to face or online classes (synchronous or asynchronous)

Course Learning Outcomes (CLOs)

¹ CLOs	PLO(s) Assessed for this CLO (1-15) ²	EPAs (1.1- 6.1) ³	Assessment Methods ⁴	Grading Method ⁵	PPCP Skill(s) Assessed (1-5) ⁶	ACPE Std. 11 & 12 (1-4) ⁷
1. Identify psychiatric and neurologic disorders and medication-related problems in these patients.	1,2	1.1 1.2	1,2	ES	1,2	-
2. Evaluate pharmacologic treatment options for pain management and psychiatric and neurologic disorders.	1	1.2	1,2	ES	1,2	-
3. Recommend appropriate non-pharmacologic and pharmacologic treatment options for pain management and patients with psychiatric and neurologic disorders.	1,2,6	1.3	1,2	ES	3	-
4. Educate patients and caregivers about psychiatric and neurologic medications.	7	4.1	1,2	ES	-	-

Course Assessment Methods

	Assessment Method	Description <i>Please provide a brief description of each summative assessment that you plan to use in this course to allow us to identify which ACPE standards are being assessed</i>
1	Final Exam Multiple Choice or Multiple Selection Question(s)	Standard MCQ and Select All that apply questions.
2	Final Exam Open Ended Question(s)	Fill the blank, short answer, or short essay questions

Grading Policy & Grade Calculation

Grades will be determined based on evaluation of individual and team readiness assessment tests (iRATs, tRATs), individual and team cumulative assessment tests (iCATs, tCATs), midterm examinations, final written examinations, skills assessments, graded application assignments, participation in team-based projects, peer evaluations and other assessment methods that may include, but not limited to, Objective Structured Clinical Examinations (OSCE). Examinations, RATs and CATs may consist of, but not limited to, multiple-choice, true/false, fill in the blank, short-answer, essay, and problem-based questions.

During the time the course is in progress, students whose cumulative course percentage falls below 70.0% may receive an academic alert and be subject to periodic course content review in special sessions with the course instructor(s). The student's faculty advisor may receive an academic alert to act upon on the student's behalf.

All examinations, tests, and assignments, including the final examination, may be **cumulative**. Students are responsible for material presented during the 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 examination/assessment policy below.

Standard Grade Calculation*

iRATs**	10%
Individual Applications/Activities	5%
Midterm 1	25%
Midterm 2	25%
Final Exam	30%
tRATs/Team Applications	5%
Total	100%

**The two lowest iRAT grades will be dropped.

****The final course letter grade will be determined according to the following grading scheme:***

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

PHAR 7586 Course Schedule

WEEK	DAY	Hours	FTF/ Online	TOPIC	Instructor	CLO	Disease State
1	8/24	3	FTF	Pharmacology: Voltage-Gated Ion Channels and Opioid Receptors	Hamouda	2	N/A
	8/28	2	Online	Medicinal Chemistry: Part 1*	Abdelaziz	2	N/A
2	8/31	3	FTF	Pharmacotherapy: Epilepsy*	Parmentier	1,2,3,4	S05.03
	9/4	2	Online	Pharmacotherapy: Epilepsy	Parmentier	1,2,3,4	S05.03
3	9/7	3		Labor Day			
	9/11	2	Online	Medicinal Chemistry: Part 2*	Abdelaziz	2	N/A
4	9/14	3	FTF	Pharmacotherapy: Mild-Mod Pain*	Parmentier	1,2,3,4	S05.06
	9/18	2	Online	Pharmacotherapy: Severe Pain	Parmentier	1,2,3,4	S05.06
5	9/21	3	FTF	Pharmacotherapy: Severe Pain	Parmentier	1,2,3,4	S05.06
	9/25	2	Online	Pharmacotherapy: MS/Fibromyalgia	Parmentier	1,2,3,4	S05.06 S05.02
6	9/28	3	FTF	Midterm 1			
	10/2	2	Online	Pharmacotherapy: Headache/Migraine	Yang	1,2,3,4	S05.07
7	10/5	3	FTF	Pharmacology: Dopaminergic Drugs	Hamouda	2	N/A
	10/9	2	Online	Medicinal Chemistry: Part 3*	Abdelaziz	2	N/A
8	10/12	3	FTF	Pharmacotherapy: Alzheimer's*	Newsome	1,2,3,4	S05.01
	10/16	2	Online	Pharmacotherapy: Parkinson's Disease	Newsome	1,2,3,4	S05.05
9	10/19	3	FTF	Pharmacotherapy: Schizophrenia*	Parmentier	1,2,3,4	S06.02
	10/23	2	Online	Pharmacotherapy: Schizophrenia	Parmentier	1,2,3,4	S06.02
10	10/26	3	FTF	Pharmacotherapy: Bipolar Disorder*	Parmentier	1,2,3,4	S06.04
	10/30	2	Online	Pharmacotherapy: ADHD	Fenn	1,2,3,4	S06.01
11	11/2	3	FTF	Midterm 2			
	11/6	2	Online	Pharmacotherapy: Sickle Cell	Newsome	1,2,3,4	S05.06
12	11/9	3	FTF	Pharmacotherapy: Depression*	Parmentier	1,2,3,4	S06.03
	11/13	2	Online	Pharmacotherapy: Depression	Parmentier	1,2,3,4	S06.03
13	11/16	3	FTF	Pharmacotherapy: Anxiety/PTSD*	Parmentier	1,2,3,4	S06.06
	11/20	2	Online	Pharmacotherapy: Insomnia*	Parmentier	1,2,3,4	S06.05
14	11/30	3	Online	Pharmacotherapy: Substance Use Disorders*	Parmentier	1,2,3,4	S06.08
	12/4	2	Online	Pharmacotherapy: RLS/Other Sleep Disorders*	Parmentier	1,2,3,4	S06.05
15	TBD		Online	Final Exam			
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. *RAT							

Midterm 1: Material from 8/24-9/21

Midterm 2: Material from 9/25-10/26

Final Exam: Cumulative