

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

PHAR 7586

Fall Semester 2021

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

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

Course Coordinator

Brittany Parmentier, PharmD, MPH, BCPS, BCPP

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Office hours: Tuesdays and Fridays 12:30-2 and 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. 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)	<i>Standard MCQ and Select All that apply questions.</i>
2	Final Exam Open Ended Question(s)	<i>Fill the blank, short answer, or short essay questions</i>

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. **Backwards navigation will not be available on summative assessments (e.g. midterms, final).**

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.

Case Study Syllabus Section – P3 Fall Fall 2021

These following sections would be added to the following syllabi: PHAR 7295 Applied Pharmacy Practice Skills 1, PHAR 7585 Endocrine, and PHAR 7586 Neuro/Psych.

Case Studies

Case Studies is a longitudinal supplement intended to reinforce and integrate concepts and skills from the P3 fall curriculum. **Content and concepts from Case Studies will be reinforce course content and aim to enhance understanding of content through critical thinking and clinical reasoning that will better prepare you for summative exams for the P3 fall courses.**

Case Studies Format

Case days may include, but are not limited to, the following activities:

1. Guided discussions
2. Individual and team active learning strategies
 - a. Individual and team case application of content and concepts
 - b. Individual and team case presentation of content and concepts
 - c. Individual and team SOAP note(s)
 - d. Individual and team drug information and clinical literature applications

Case Studies Expectations

Attendance and full participation are a student obligation and expectation. Each Case Studies session will be assigned to a course for 2% of the grade. At the discretion of the session's assigned course coordinator, absences from a case session may be either approved or unapproved. Students are expected to notify the session's assigned course coordinator *as soon as possible, and no later than 9 AM the morning of the requested absence, with supporting documentation of the absence provided within 3 days of the absence per the College of Pharmacy Policies available in Part 2 of the Syllabus.*

Case Study Schedule

Case Studies will be held over four sessions on Mondays from 9:00 AM to 12:00 PM. Although each session's attendance deduction is assigned to a specific course, case content is not limited to that course and content from current and previous courses will be integrated into case day activities.

P3 Fall 2021 Case Study Schedule				
Session	Date	Assigned Course Grade	Assigned Course Coordinator	Case Instructors/Developers
1	Sept 13	Practice Case	ALL	Parmentier Wallace-Gay Wooster Weller
2	Oct 4	PHAR 7295	Weller	Wooster Weller
3	Oct 25	PHAR 7585	Wallace-Gay	Wallace-Gay
4	Nov 15	PHAR 7586	Parmentier	Parmentier

Standard Grade Calculation*

iRATs**	12.5%
Individual Applications/Activities	2.5%
Midterm 1	25%
Midterm 2	25%
Final Exam	30%
tRATs/Team Applications	3%
Case Day	2%
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 %

Midterm 1: Material from 8/24-9/21
 Midterm 2: Material from 9/24-10/26
 Final Exam: Cumulative

PHAR 7586 Course Schedule – Fall 2021

Week	Day	Hours	TOPIC	Instructor	CLO	Disease State
1	8/24	3	Medicinal Chemistry: Anticonvulsants and Opioids*	Abdelaziz	2	S05.99
	8/27	2	Pharmacotherapy: Epilepsy*	Parmentier	1,2,3,4	S05.03
2	8/31	3	Pharmacotherapy: Epilepsy	Parmentier	1,2,3,4	S05.03
	9/3	2	Pharmacotherapy: Mild-Mod Pain*	Parmentier	1,2,3,4	S05.06B
3	9/7	3	Pharmacotherapy: Severe Pain*	Parmentier	1,2,3,4	S05.06A S05.06B
	9/10	2	Pharmacotherapy: Severe Pain	Parmentier	1,2,3,4	S05.06B
4	9/13		Case Day			
	9/14	3	Pharmacotherapy: Headache/Migraine	Yang	1,2,3,4	S05.07
	9/17	2	Pharmacotherapy: MS/Fibromyalgia*	Parmentier	1,2,3,4	S05.02 S05.22
5	9/21	3	Pharmacotherapy: Sickle Cell	Newsome	1,2,3,4	S05.06B S14.03
	9/24	2	Medicinal Chemistry: Antiparkinsons and Antipsychotics*	Abdelaziz	2	S05.99
6	9/28	3	Midterm 1			
	10/1	2	Pharmacotherapy: Alcohol Use Disorder/Substance Use Disorder*	Parmentier	1,2,3,4	S06.12 S06.08B
7	10/4		Case Day			
	10/5	3	Pharmacotherapy: Opioid Use Disorder*	Parmentier	1,2,3,4	S06.08A
	10/8	2	Pharmacotherapy: Parkinson's Disease	Newsome	1,2,3,4	S05.05
8	10/12	3	Pharmacotherapy: Schizophrenia*	Parmentier	1,2,3,4	S06.02
	10/15	2	Pharmacotherapy: Schizophrenia	Parmentier	1,2,3,4	S06.02
9	10/19	3	Pharmacotherapy: Alzheimer's	Newsome	1,2,3,4	S05.01
	10/22	2	Pharmacotherapy: ADHD	TBD	1,2,3,4	S06.01
10	10/25		Case Day			
	10/26	3	Medicinal Chemistry: Sedative/Hypnotic/Anxiolytics and Antidepressants*	Abdelaziz	2	S06.99
	10/29	2	Pharmacotherapy: Insomnia*	Parmentier	1,2,3,4	S06.05
11	11/2	3	Midterm 2			
	11/5	2	Pharmacotherapy: RLS/OSA/Other sleep disorders*	Parmentier	1,2,3,4	S06.05 S02.06 S05.10
12	11/9	3	Pharmacotherapy: Depression*	Parmentier	1,2,3,4	S06.03
	11/12	2	Pharmacotherapy: Depression	Parmentier	1,2,3,4	S06.03
13	11/15		Case Day			
	11/16	3	Pharmacotherapy: Anxiety Disorders*	Parmentier	1,2,3,4	S06.13
	11/19	2	Pharmacotherapy: Eating Disorders/PTSD/OCD*	Parmentier	1,2,3,4	S06.07 S06.16 S06.17
14	11/30	3	Pharmacotherapy: Bipolar Disorder*	Parmentier	1,2,3,4	S06.04
	12/3	2	Pharmacotherapy: Bipolar Disorder	Parmentier	1,2,3,4	S06.04
15	TBD		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