

Integrated Pharmacotherapy VII: Selected Topics & Special Populations (Ptx VII)
PHAR 7487
Spring 2020

Catalogue Description

This integrated pharmacy course focuses on pathophysiology, medicinal chemistry, pharmacology, and therapeutics to develop therapeutic plans for patients with dermatological, eye, ear, nose, and throat disorders, and obesity. In addition, this course will focus on providing optimal patient care for special populations.

Course Description

This course introduces basic science and clinical concepts of pharmacy practice. The focus of this course surrounds scientific and therapeutic aspects of diseases of the skin, selected ophthalmic and otolaryngological disorders, and obesity. In addition, this course will focus on how to appropriately manage geriatric and pediatric populations as well as reinforcing cultural sensitivity while providing optimal care. Development of patient-specific therapeutic plans using non-prescription, non-pharmacological, complementary and prescription modalities will be learned.

Course Credit

4 credit hours

Pre-Requisites

PHAR 7485 Integrated Pharmacotherapy V: Endocrine, Women's & Men's Health

PHAR 7486 Integrated Pharmacotherapy VI: Psychiatry, Neurology, & Pain Management

Class Meeting Days, Time & Location

Monday and Tuesday; 2:00p – 4:00p

W.T. Brookshire Hall Room 137

Course Coordinator

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Clinical Associate Professor

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Office hours: Wednesday: 1-5pm

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/files/fcop-syllabus-policies.pdf . 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.utttyler.edu/>) or on reserve.

1. *Access Pharmacy. Available at: <http://accesspharmacy.mhmedical.com/>.
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. *Applied Biopharmaceutics & Pharmacokinetics, 6e; Leon Shargel, Susanna Wu-Pong, Andrew B.C. Yu; McGraw-Hill Education (c)2012; ISBN: 978-0-07-160393-5.
4. *Patrick GL. An Introduction to Medicinal Chemistry. 5th edition. Oxford: Oxford University Press; 2013.
5. *Foye's Principles of Medicinal Chemistry, 7th Ed. Thomas L. Lemke and David A. Williams, Lippincott Williams & Wilkins, 2012; ISBN: 928-1-45-117572-1.
6. *Basic and Clinical Pharmacology (12th Edition). Katzung BG, Masters SB, Trevor AJ. Lange-McGraw Hill. ISBN: 978-0-07-176401-8, 2012.
7. *Goodman and Gilman's The Pharmacological Basis of Therapeutics, 12e; McGraw-Hill Education ©2011; ISN 978-0-07-162442-8.
8. *Pharmacotherapy: A Pathophysiologic Approach, 9th Edition. DiPiro JT, Talbert RL, Tee GV, et al. McGraw-Hill Education. (©2014) ISBN: 978-0-07-180053-2.
9. *Kasper D, Fauci A, Hauser S, et al. Harrison's Principles of Internal Medicine. 19th ed. McGraw-Hill Education; 2015.
10. American Pharmacist Association. Pharmacy Library. Available at: <http://pharmacylibrary.com>.
11. Other required materials will be posted on the classes' Canvas site. The site address is: utttyler.edu/canvas.

Recommended Materials

1. Herrier RN, Apgar DA, Boyce RW, et al. Patient Assessment in Pharmacy. McGraw-Hill Education; 2015.

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

Course Learning Outcomes (CLOs)

CLOs	Related PLO(s)	Assessment Methods	Grading Method	JCPP Skill(s) Assessed	ACPE Std. 11 & 12
1. Evaluate how biochemical, immunological and physiological factors influence health and disease.	1	1,3	ES	-	
2. Review the pharmacology for the drug classes utilized to treat dermatologic, ophthalmic, and otolaryngological disorders and drug toxicity.	1	1,3	ES	-	
3. Discuss how chemical structure impacts treatment.	1	1,3	ES	-	
4. Formulate patient-specific care plans using prescription, non-prescription, non-pharmacological and complimentary modalities.	2, 7	1,2,3,4	ES, OTH	2, 3	
5. Discuss patient care management for geriatric and pediatric populations	1	1,2,3,4	ES	-	12.4

Course Assessment Methods

	Assessment Method	Description
1	Multiple Choice or Multiple Selection Question(s)	<i>Standard MCQ and Select All that apply questions on the iRATs/tRATs, assessments, and final exam.</i>
2	Case Studies	<i>Traditional case studies used for graded applications</i>
3	Open Ended Questions	
4	SOAP Notes	

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*

Individual Component	85%
iRATs/Other Individual Activities	10%
Major Assessments (e.g., Midterm/Final Exams)	75%
• Midterm 1	25%
• Midterm 2	25%
• Final Exam	25%
Team Component	15%
tRATs	5%
Team Application(s)/Team Projects	10%
Total	100%

****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 7487 Course Schedule

Week	Day	Topic	Instructor	CLO	WSOP Category
1	1/13	Alopecia	Newsome	2, 4	S13.04
	1/14	Psoriasis	Wallace-Gay	2, 4	S13.02
MARTIN LUTHER KING JR DAY (1/20/20)					
2	1/21	Acne	Fenn	2, 4	S13.01
3	1/27	Drug-Induced Dermatological Disorders*	Newsome	2, 4	S13.04
	1/28	Pathophysiology: Glaucoma	Newsome	1, 2, 4	S19.02
4	2/3	Pharmacotherapy: Glaucoma*	Newsome	2, 4	S19.02
	2/4	Pharmacokinetics / Pharmacodynamics: Geriatrics	Newsome	3, 5	S18.02
5	2/10	Pharmacotherapy: Falls and Fall-Risk Increasing Drugs	Newsome	3, 5	S18.02
	2/11	Pharmacotherapy: Medication Use in Older Adults	Newsome	5	S18.02
6	2/17	Pharmacotherapy: Geriatric Syndromes*	Newsome	5	S18.02
MIDTERM (2/18/20)					
7	2/24	Pharmacotherapy: Frailty	Newsome	5	S18.02
	2/25	Growth & Development*	Fenn	1, 5	S18.01
8	3/2	Dosage Forms & Calculations	Fenn	5	S18.01
	3/3	Pediatric Pharmacokinetics/dynamics*	Fenn	3, 5	S18.01
SPRING BREAK (3/9 – 3/20)					
9	3/23	Dehydration Assessment and Oral Rehydration Therapy	Fenn	5	S18.01
	3/24	Pharmacotherapy: Nutrition in Infants and Children	Fenn	5	S18.01
10	3/30	Pregnancy and Lactation*	Newsome	1, 4	S18.03
	3/31	Solid Organ Transplant	Reinert	4	S10.02
MIDTERM (4/6/20)					
11	4/7	Bariatric Patients	Fenn	4	S18.03
	4/13	Transgender Care*	Newsome	4	S18.03
12	4/14	Palliative Care*	Brazill	4	S16.05
13	4/20	Palliative Care	Brazill	4	S16.05
	4/21	Introduction to Health Disparities / Conceptual and Historical Aspects of Race/Ethnicity and Health*	Newsome	4	S18.03
14	FINAL EXAM (Cumulative)				
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.					

*means that there is a RAT on this day