

PHAR 7487 Integrated Pharmacotherapy 7: Special Populations

Spring 2026

Course Description

This integrated pharmacy course focuses on providing optimal patient care for special populations by using pathophysiology, medicinal chemistry, pharmacology, and therapeutics to develop therapeutic plans.

Additional Course Information

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 and selected ophthalmic disorders and infectious diseases. In addition, this course will focus on how to appropriately manage geriatric and pediatric populations. 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: P3 standing

Co-Requisites: none

Class Meeting Days, Time & Location: Tuesdays and Thursdays 2:00 pm – 4:00 pm; W.T. Brookshire Hall 234

Course Coordinator:

Winter J. Smith, Pharm.D., BCPS

W.T. Brookshire Hall Room 247

Phone number: 903.565.5783

Email: wsmith@uttyler.edu

Office hours: Tuesdays and Thursdays, 12-1 pm – **MUST make an appointment**, or other days/times 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 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* (<https://libguides.uttyler.edu/c.php?g=861925&p=6177398>) or on reserve.

1. *Access Pharmacy. Available at: <http://accesspharmacy.mhmedical.com/>.
2. *LWW Health Library. Available at: <https://integratedpharmacy.lwwhealthlibrary.com/index.aspx>
3. *Pathophysiology of Disease: An Introduction to Clinical Medicine (8th Edition). Hammer GD and McPhee SJ. Lange-McGraw Hill. ISBN: 978-1-260-02650-4, 2019. Available through Access Pharmacy.
4. *Applied Biopharmaceutics & Pharmacokinetics, 7e; Leon Shargel, Susanna Wu-Pong, Andrew B.C. Yu; McGraw-Hill Education 2016; ISBN: 978-0-07-183093-5. Available through Access Pharmacy.
5. *Foye's Principles of Medicinal Chemistry, 8th Ed. (2019) Thomas Lemke et. al. Available through LWW Health Library.
6. *Katzung's Basic and Clinical Pharmacology (16th Edition). Vanderah TW, Ed. Lange-McGraw Hill 2024. ISBN: 978-1-260-46330-9. Available through Access Pharmacy.

7. *Goodman and Gilman's The Pharmacological Basis of Therapeutics, 14e; McGraw-Hill Education ©2023; ISBN 978-1-264-25807-9. Available through Access Pharmacy.
8. *Dipiro JT, Talbert RL, Yee GC, et. al. Pharmacotherapy: A Pathophysiologic Approach, 13e. McGraw- Hill Education, 2024. ISBN: 978-1-265-46398-4. Available through Access Pharmacy.
9. *Longo D, Fauci A, Kasper D, et al., et al. Harrison's Principles of Internal Medicine. 22nd ed. McGraw-Hill Education; 2025. Volume 1 ISBN 978126597706, Volume 2 ISBN 9781265978631. Available through Access Pharmacy.
10. American Pharmacist Association. Pharmacy Library. Available at: <http://pharmacylibrary.com>.
11. Other required materials will be posted on the class Canvas site. The site address is: uttyler.edu/canvas.

Recommended Materials

1. Bethishou L, Bach A, Walsh A, Eds. Patient Assessment in Pharmacy. McGraw-Hill Education; 2025. Available through Access Pharmacy.

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) Assessed for this CLO (1-12)	EPAs (1-13) Only map for Lab, IPPE, APPE. Otherwise N/A	ACPE Appendix 1 (names)	ACCP Didactic Toolkit (names)	NAPLEX (1.A.1 – 5.D)	Assessment Methods (1-13)
1. Evaluate how biochemical, immunological, socioeconomic, and physiological factors influence health and disease.	1	N/A	Medicinal chemistry	N/A	1.A.2	1
2. Review the pharmacology for the drug classes utilized to treat dermatologic, ophthalmic, and otolaryngological	1	N/A	Pharmacology	N/A	1.A.1	1

disorders and drug toxicity.						
3. Discuss how chemical structure impacts treatment.	1	N/A	Medicinal chemistry	N/A	1.A.1	1
4. Formulate patient-specific care plans using prescription, non-prescription, non-pharmacological and complimentary modalities.	5	N/A	Pharmacotherapy	Infectious diseases, Immunologic, Gastrointestinal, Ophthalmic, Dermatologic, Pediatrics, Older people, Terminally ill	3.D.1	1, 2, 3
5. Discuss patient care management for geriatric and pediatric populations	5	N/A	Pharmacotherapy	Pediatrics, Older people, Terminally ill	3.C.2	1, 2, 3

Course Summative Assessment Methods

	Assessment/Examination Method
1	Question-based examination (ExamSoft-based)
2	Comprehensive Case
3	SOAP Note

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 Assessments: 95%	
iRATs/Other Individual Activities	5%
Major Assessments (e.g., Midterm/Final Exams)	90%
-Midterm 1	25%
-Midterm 2	25%
-Midterm 3	25%
-Comprehensive Case Final	15%
Team Assessments: 5%	
tRATs/Team Application(s)/Team Projects	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

Artificial intelligence (AI) is not permitted in this course at all. The work submitted by students in this course will be generated by themselves. This includes all process work, drafts, brainstorming artifacts, editing, and final products. This extends to group assignments where students must create collaboratively create the project. Any instance of the following constitutes a violation of UT Tyler's Honor Code: a student has another person/entity do any portion of a graded assignment, which includes purchasing work from a company, hiring a person or company to complete an assignment or exam, using a previously submitted assignment and/or using AI tools (such as Chat ChatGPT).

PHAR 7487 Spring 2026 Course Schedule

Week	Day	Date	Topic	Instructor	CLO
1	Tues	1/13	Medicinal Chemistry: HIV*	Abdelaziz	1,3
	Thurs	1/15	Pharmacotherapy: HIV/AIDS (Part 1)	Lee	1,4
2	Tues	1/20	Pharmacotherapy: HIV/AIDS (Part 2)	Lee	1,4
	Thurs	1/22	Pharmacotherapy: Opportunistic Infections*	Smith	1,4
3	Tues	1/27	Pharmacotherapy: Solid Organ Transplant	Lee	1,4
	Thurs	1/29	Pharmacotherapy: Cases	Lee	1,3,4
4	Tues	2/3	MIDTERM 1	Smith	1,3,4
	Thurs	2/5	Pharmacotherapy: Metabolic-Dysfunction Associated Steatohepatitis (MASH)	Gutierrez	1,4
5	Tues	2/10	Clinical Pharmacokinetics/Pharmacology: Geriatrics*	Smith	1,4,5
	Thurs	2/12	Pharmacotherapy: Glaucoma	Yu	2,4
6	Tues	2/17	Pharmacotherapy: Medication Use in Older Adults	Smith	4,5
	Thurs	2/19	Pharmacotherapy: Alopecia	Yu	2,4
7	Tues	2/24	Pharmacotherapy: Geriatric Syndromes + Cases	Smith	1,4,5
	Thurs	2/26	MIDTERM 2	Lee	1,2,4,5
8	Tues	3/3	Pharmacotherapy: Palliative Care	Brazill	4,5
	Thurs	3/5	Pharmacotherapy: Hospice Care	Brazill	4,5
9	Tues & Thurs	3/10 & 3/12	SPRING BREAK!	N/A	
10	Tues	3/17	Pharmacotherapy: Drug-Induced Dermatological Disorders	Brazill	2,4
	Thurs	3/19	Pharmacotherapy: Psoriasis	Yu	2,4
11	Tues	3/24	Pharmacotherapy: Acne*	Yu	2,4
	Thurs	3/26	Clinical Pharmacokinetics/Pharmacology: Pediatrics + Cases	Yu	4,5
12	Tues	3/31	MIDTERM 3	Smith	1,2,4,5
	Thurs	4/2	Pharmacotherapy: Dosage Calculations and Dosage Forms	Fujiwara	4,5
13	Tues	4/7	Toxicology: Classification of Maternal/Fetal Risk	Smith	1,4
	Thurs	4/9	Pharmacotherapy: Dehydration Assessment & Oral Replacement Therapy*	Yu	5
14	Tues	4/14	Pharmacotherapy: Comprehensive Case Day	Lead: Smith	1-5
	Thurs	4/16	Pharmacotherapy: Comprehensive Case Day	Lead: Yu	1-5
15	Tues	4/21	COMPREHENSIVE CASE FINAL	Smith	1-5
	Thurs	4/23	NO CLASS		

*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. *Indicates quiz date*