

Integrated Pharmacy 4 (Ptx-4)
GI, Nutrition, Musculoskeletal
PHAR 7484
Spring Semester 2020

Course Description

This integrated pharmacy course focuses on pathophysiology, medicinal chemistry, pharmacology, and therapeutics to develop therapeutic plans for patients with gastrointestinal, nutritional, and musculoskeletal disorders.

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 the gastrointestinal and musculoskeletal systems and common diseases affecting those systems. In addition, this course will focus on how to appropriately address nutritional disorders. Development of patient-specific therapeutic plans using non-prescription, non-pharmacological, complementary and prescription modalities will be learned. Ultimately, students will be provided with the knowledge-base and clinical skills necessary to provide pharmaceutical care to patients with gastrointestinal and musculoskeletal disorders.

Course Credit

4 credit hours

Pre-Requisites

P2 Standing

Co-Requisites

None

Class Meeting Days, Time & Location

Tuesday and Thursday; 2:00p – 4:00p; W.T. Brookshire Hall Room 136

Course Coordinator

Rebecca Dunn, Pharm.D., BCPS
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Office hours: TBD (see Canvas course site)
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.utt Tyler.edu/>) or on reserve.

1. Pharmacotherapy: A Pathophysiologic Approach, 10th Edition. DiPiro JT, Talbert RL, Yee GC, et al. McGraw-Hill Education. (©2017) ISBN 978-1-259-58748-1
2. Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy Fourth Edition, 4th Edition. Golan DE, Armstrong EJ, Armstrong AW. Wolters Kluwer. (©2017) ISBN 9781451191004
3. Other required materials will be posted on the classes' Canvas site. The site address is: utt Tyler.edu/canvas.

Recommended Materials

None

Course Format

The course may include, but is 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 assessments (tRAT)
 - b. Team application of content and concepts
 - c. Team presentation of content and concepts
 - d. Team project(s)
 - e. SOAP note(s)
4. Independent preparation of reflection papers or other assignments

Course Learning Outcomes (CLOs)

CLOs	PLO(s) Assessed for this CLO	EPAs	Assessment Methods	Grading Method	PPCP Skill(s) Assessed	ACPE Std. 11 & 12
1. Select appropriate medication therapy for gastrointestinal and musculoskeletal conditions based on principles of physiology, pathophysiology and pharmacology.	1, 2	1.1 1.2	1, 2	ES	1, 2, 3	4
2. Formulate patient-and disease-specific care plans for pharmacotherapeutic regimens in gastrointestinal and musculoskeletal disorders.	1, 2, 4	1.1 1.2 1.3 1.4 4.2	1, 2	ES	1, 2, 3, 4	4
3. Design monitoring plans for efficacy, toxicity and adverse effects for pharmacotherapeutic regimens in renal and respiratory disorders.	1, 2, 6	1.5 3.2	1, 2	ES	3, 4, 5	4
4. Discuss parenteral and enteral nutrition.	1, 2, 9	1.1 1.2 1.3 1.4 1.5	1, 2	ES	1, 2, 3, 4, 5	4

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>Handwritten calculations, FITB, short answer</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.

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	10%
Midterm 1	20%
Midterm 2	25%
Final Exam	30%
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 7484 Course Schedule

Day	Topic	Instructor	CLO	Disease States	Top 200 Rx / Top 100 OTC Lists
1/14	Clinical Evaluation of the Gastrointestinal Tract *	Dunn		S03.13	Top 200 Rx List: 104-112 Top 100 OTC List: 38-40; 44-73
1/16	Physiology & Pharmacology: Gastrointestinal Review *	Wang	1, 2	S03.13	
1/21	Pathophysiology & Pharmacology: Nausea & Vomiting, and Disorders of Gastric Acid (ex. GERD, Dyspepsia, Heartburn, PUD) *	Wang	1, 2	S03.01 S03.02 S03.09	
1/23	Pharmacotherapy: Nausea and Vomiting *	Dunn	1, 2, 3	S03.09	
1/28	Pharmacotherapy: GERD, Dyspepsia, Heartburn *	Dunn	1, 2, 3	S03.01	
1/30	Pharmacotherapy: GERD, Dyspepsia, Heartburn	Dunn	1, 2, 3	S03.01	
2/4	Pharmacotherapy: Peptic Ulcer Disease *	Dunn	1, 2, 3	S03.02	
2/6	Pharmacotherapy: Gastrointestinal Bleeding *	Dunn	1, 2, 3	S03.13	
2/11	Midterm Exam 1 - covers material through 2/6				
2/13	Pathophysiology & Pharmacology: Diarrhea, Constipation, IBS (i.e. disorders of gastrointestinal motility and water flux) *	Wang	1, 2	S03.07 S03.08 S03.10	
2/18	Pharmacotherapy: Diarrhea & Constipation *	Dunn	1,2, 3	S03.07 S03.08	
2/20	Pharmacotherapy: Irritable Bowel Syndrome *	Dunn	1,2, 3	S03.10	
2/25	Pharmacotherapy & Communication: Cirrhosis *	Dunn	1, 2, 3	S03.04	
2/27	Pharmacotherapy: Drug-Induced Liver Disease *	Newsome	1, 2, 3	S03.05	
3/3	Pharmacotherapy: Malabsorptive Syndrome *	Romerill	4	S03.13 S17.05	
3/5	Pharmacotherapy: Parenteral Nutrition *	Romerill	4	S03.13 S17.01	
3/17	Pharmacotherapy: Enteral Nutrition *	Romerill	4	S03.13 S17.02	
3/19	Pharmacotherapy: Pancreatitis *	Newsome	1, 2, 3	S03.11	
3/24	Midterm Exam 2 - covers material through 3/19				
3/26	Pathophysiology & Pharmacology: Inflammation, Autoimmunity, Immunosuppression and Pain *	Glavy	1, 2	S03.03 S10.01 S10.06 S11.01 S11.02	Top 200 Rx List: 94-103 Top 100 OTC List: 38-40; 44-46

				S11.03	
3/31	Pathophysiology & Pharmacology: Inflammation, Autoimmunity, Immunosuppression and Pain	Glavy	1, 2	S03.03 S10.01 S10.06 S11.01 S11.02 S11.03	
4/2	Pharmacotherapy: Inflammatory Bowel Disease *	Newsome	1, 2, 3	S03.03	
4/7	Pharmacotherapy: Inflammatory Bowel Disease	Newsome	1, 2, 3	S03.03	
4/9	Pharmacotherapy: Systemic Lupus Erythematosus *	Newsome	1, 2, 3	S10.01	
4/14	Pharmacotherapy: Systemic Lupus Erythematosus	Newsome	1, 2, 3	S10.01	
4/16	Pharmacotherapy: Rheumatoid Arthritis *	Newsome	1, 2, 3	S11.01	
4/21	Pharmacotherapy: Gout *	Newsome	1, 2, 3	S11.03	
4/23	Pharmacotherapy: Osteoarthritis *	Bratteli	1, 2, 3	S11.02	
5/1	Final Exam (cumulative + new material through 4/23)				
<p>* Indicates intended dates for RATs. 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.</p>					