PHAR 7481 Integrated Pharmacotherapy 1 (Ptx-1)
Renal/Respiratory
Fall Semester 2022

Course Description
This course focuses on the application of the knowledge and skills needed for pharmacists to care for patients with various renal and respiratory disorders.

Additional Information on the Course
This course incorporates advanced renal and respiratory pathophysiology and pharmacology in order to prepare students to focus on the pharmacotherapeutics of the renal and respiratory systems and common diseases affecting those systems. Development of patient-specific therapeutic plans using non-prescription, prescription and nonpharmacological modalities will be learned. Ultimately, students will be provided with the knowledge and skills necessary to provide care to patients with renal and respiratory disorders.

Course Credit
4 credit hours

Pre-Requisites
PHAR 7301, PHAR 7613, PHAR 7203

Co-Requisites
None

Class Meeting Days, Time & Location
Monday 9:00 am – 11:00 am **and** Thursday, 2:00 pm – 4:00 pm; W.T. Brookshire Hall room # 235

Course Coordinator
Rebecca Dunn, Pharm.D., BCPS
W.T. Brookshire Hall Room 237
Phone number: 903.566.6101
Email: rdunn@uttyler.edu
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/. 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.

Revised 5/2/2022

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. 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. Renal Pathophysiology, 4th Edition. Rennke H, Bradley M, Denker BM. Lippincott Williams & Wilkins. ISBN-13: 978-1451173383
4. Other required materials will be posted on the classes' Canvas site. The site address is: uttyler.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. Lecture
5. Active learning
6. Case studies
7. Educational video clips (online and in class)
8. Independent preparation of reflection papers

Course Learning Outcomes (CLOs)

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

Course Assessment Methods

	Assessment Method	Description *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*
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)	*FITB, short answer, essay*

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), quizzes, midterm examinations, final written examinations, skills assessments, graded application assignments, participation in team-based projects, peer evaluations and other assessment methods. 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 <u>not</u> be available on summative assessments (*e.g.* midterms, final).**

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.

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.

Standard Grade Calculation	
Individual Component	**95%**
iRATs/quizzes	10%
Midterm 1	25%
Midterm 2	25%
Final Exam	35%
Team Component	**5%**
tRATs	2.5%
Applications/Team Projects	2.5%
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 7481 Course Schedule – Fall 2022

DAY	TOPIC	Instructor	CLO	Disease States
M: 8/22	*Course Overview (10 minutes)* Physiology/Pharmacology: Renal Physiology and Volume Regulation*	*Dunn* Glavy	1, 2	S03.99
Th: 8/25	Pathophysiology/Pharmacology: Fluid and Electrolyte Disorders*	Glavy	1, 2	S04.05
M: 8/29	Pathophysiology/Pharmacology: Acid-Base Disorders*	Glavy	1, 2	S04.06
Th: 9/1	Clinical Chemistry: Introduction to Laboratory Values*	Dunn	1, 2, 3	S20.99
M: 9/5	***LABOR DAY (NO CLASS)***			
Th: 9/8	Pharmacotherapy: Na and Water Disorders*	Dunn	1, 2, 3	S04.05 S04.07 S04.09
M: 9/12	Pharmacotherapy: Na and Water Disorders	Dunn		
Th: 9/15	Pharmacotherapy: Ca, Mg, K and Phos Disorders*	Dunn	1, 2, 3	S04.05
M: 9/19	Pharmacotherapy: Acid-Base Disorders*	Dunn	1, 2, 3	S04.06
Th: 9/22	Pharmacotherapy: Acid-Base Disorders	Dunn		
M: 9/26	***Midterm Exam 1 - covers material through 9/22***			
Th: 9/29	Pathophysiology/Pharmacology: Renal Diseases (AKI, DIKI, CKD)*	Glavy	1, 2	S04.01-03
M: 10/3	Clinical Chemistry: Laboratory Values and Evaluation of Renal Function*	Dunn	1, 2, 3	S04.04
Th: 10/6	Pharmacotherapy: Acute Kidney Injury*	Dunn	1, 2, 3	S04.01 S04.12 S11.06
M: 10/10	Pharmacotherapy: Acute Kidney Injury	Dunn		
Th: 10/13	Pharmacotherapy: Drug-induced Kidney Disease*	Dunn	1, 2, 3	S04.03
M: 10/17	Pharmacotherapy: Dialysis and Renal Replacement Therapies*	Dunn	1, 2, 3	S04.08
Th: 10/20	***CAREER SUCCESS CONFERENCE (required attendance)***			
^F: 10/21 (2-4p)	Pharmacotherapy: Chronic Kidney Disease*	Lee	1, 2, 3	S04.02 S04.12 S04.13
M: 10/24	Pharmacotherapy: Chronic Kidney Disease	Lee		
Th: 10/27	Pathophysiology/Pharmacology/Pharmacotherapy: Anemia (Iron, Folate, B12, Chronic)*	Brazill	1, 2, 3	S14.01
M: 10/31	***Midterm Exam 2 - covers material through 10/27***			
Th: 11/3	Pathophysiology/Pharmacology: Respiratory Diseases*	Wang	1, 2	S02.01-.02
M: 11/7	Pharmacotherapy: COPD (acute/chronic)*	Bratteli	1, 2, 3	S02.02
Th: 11/10	Pharmacotherapy: COPD (acute/chronic)	Bratteli		
M: 11/14	Pharmacotherapy: Asthma (acute/chronic/action plans)*	Bratteli	1, 2, 3	S02.01
Th: 11/17	Pharmacotherapy: Asthma (acute/chronic/action plans)	Bratteli		
M: 11/21	***THANKSGIVING BREAK (NO CLASS)***			
Th: 11/24	***THANKSGIVING BREAK (NO CLASS)***			
M: 11/28	Pharmacotherapy: Cystic Fibrosis*	Bratteli	1, 2, 3	S02.03
Th: 12/1	Pharmacotherapy: Smoking Cessation	Yett	1, 2, 3	S06.14
T: 12/6 @ 9a-12p	***Final Exam (cumulative + new material through 12/1)***			

- ** Indicates intended dates for RATs.*
- ^ Please note the Friday date to accommodate for the Career Success Conference held on the regularly scheduled Thursday 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.*