

**Applied Pharmacy Practice Skills 2**  
**PHAR 7296**  
Spring 2021

**Course Description**

This pharmacy lab focuses on the application of skills and resources needed for pharmacists to ensure patient safety and optimize patient outcomes in the inpatient settings.

**Additional Course Information**

This lab reviews different tasks pharmacists perform for the clinical and operations of inpatient pharmacy practice. Students will practice handling emergency situations and drug information questions, as well as develop safe practices for the daily duties of inpatient pharmacists.

**Course Credit**

2 credit hours

**Pre-Requisites**

None

**Co-Requisites**

None

**Class Meeting Days, Time & Location**

Tuesday 4:00 – 5: 00 PM (online); Wednesday and Thursday 9:00 AM – 12:00 PM (Online or Room 133)

**Course Coordinator**

Cindy Yang, Pharm.D., BCPS  
W.T. Brookshire Hall Room 367  
Phone number: 903-566-6136  
Email: [tyang@uttyler.edu](mailto:tyang@uttyler.edu)  
Office hours: TBD  
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>. Syllabus Part 3 contains specific-policies adapted regarding instruction during COVID. 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. **Other required materials will be posted on the classes' Canvas site. The site address is: [uttyler.edu/canvas](http://uttyler.edu/canvas).**

## Recommended Materials

The course recommended materials are on reserve at the Robert R. Muntz Library.

## Course Format

The course may include, but are not limited to, the following activities:

1. Independent study of selected readings
2. Group projects
3. Presentation

## Course Learning Outcomes (CLOs)

CLOs	PLO(s) Assessed for this CLO (1-15)	EPAs (1.1- 6.1)	Assessment Methods	Grading Method	PPCP Skill(s) Assessed (1-5)	ACPE Std. 11 & 12 (1-4)
1. Demonstrate skills for accurate order entry/verification and final check of medications	3, 6	3.2, 5.2	1, 2, 4	ES, RUB	X	X
2. Demonstrate effective and appropriate communication skills to patients and other healthcare workers	7, 11	2.1	1, 4	ES, RUB	X	X
3. Demonstrate proficient clinical skills monitoring drug therapy, ensuring appropriate transition of care, and handling medical emergencies	2	1.1, 1.2, 1.4, 3.2	1, 2, 4, 12	ES, RUB	1, 2, 4	X
4. Use appropriate resources to provide solutions for drug information requests	3	4.2	1, 2	ES	X	X
5. Demonstrate proficient skills in running daily operations of inpatient pharmacies	3	5.1	1, 2	ES	X	X

## Course Assessment Methods

	Assessment Method	Description
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>Short answer, matching/fill in the blank, and essay.</i>
4	Skills Assessment	<i>Rubric-based assessments on dispensing, counseling, interviewing, and/or patient assessment.</i>
12	Simulation	<i>Simulation with filling/pulling from Pyxis and managing medical emergencies.</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\*

##### Group component

Monograph	10%
P&T Presentation	5%

##### Individual component

Lab Participation	10%
Midterm 1	20%
Midterm 2	20%
Final Exam	35%
<b>Total</b>	<b>100%</b>

***\*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 %

WEEK	Date	TOPIC	Instructor	CLO	Disease States
1	1/12 – 1/14	Introduction in inpatient pharmacy I <ul style="list-style-type: none"> <li>• Compare inpatient vs outpatient pharmacy <ul style="list-style-type: none"> <li>○ Discuss different inpatient pharmacy models</li> <li>○ Differentiate roles in hospital pharmacy</li> </ul> </li> <li>• Order verification</li> </ul>	Yang	1,5	N/A
2	1/19 – 1/21	Introduction in inpatient pharmacy II <ul style="list-style-type: none"> <li>• Introduce pharmacy automation</li> <li>• Check labels for dispensed medications</li> <li>• Order entry</li> </ul>	Yang	1,5	N/A
3	1/26 – 1/28	Fundamentals of IVs <ul style="list-style-type: none"> <li>• IV infusion calculations</li> <li>• IV access and infusion</li> <li>• IV medication stability and compatibility</li> <li>• Dosage calculations</li> <li>• Percent concentration</li> </ul>	Vega	1,5	N/A
4	2/2 – 2/4	Patient safety I <ul style="list-style-type: none"> <li>• AHRQ indicators</li> <li>• Medicare report cards</li> <li>• Star ratings</li> <li>• National patient safety goals</li> <li>• Core measures</li> <li>• Joint Commissions/accreditation process</li> </ul>	Ochoa	1, 5	N/A
5	2/9 – 2/11	Patient safety II <ul style="list-style-type: none"> <li>• FDA MedWatch</li> <li>• Analyze reported patient safety event</li> <li>• Develop SBAR</li> <li>• REMS</li> </ul>	Yang	2,3, 4	N/A
6	2/16	Midterm Exam 1			
7	2/23 – 2/25	Clinical staffing <ul style="list-style-type: none"> <li>• Manage pharmacy-driven protocols</li> <li>• MUE</li> </ul>	Yang	2	N/A
8	3/2 – 3/4	Drug information <ul style="list-style-type: none"> <li>• Basic drug information</li> <li>• Clinical practice guidelines</li> <li>• Different types of resources</li> <li>• Informal vs formal DI question</li> <li>• Practice answering informal DI questions</li> <li>• Inservice</li> </ul>	Yang	4	N/A
<b>Spring break</b>					
9	3/16 – 3/18	Formulary I <ul style="list-style-type: none"> <li>• Introduce formulary and P&amp;T committee</li> </ul>	Yang	4	N/A

		<ul style="list-style-type: none"> <li>• Monograph for P&amp;T</li> </ul>			
10	3/23 – 3/25	Pharmacy operations <ul style="list-style-type: none"> <li>• Receipt and disposal of patients' medications</li> <li>• Use of patient's personal medications</li> <li>• Medication room inspections</li> <li>• Temperature logs</li> <li>• Controlled substance inventory</li> <li>• Medication prepackage log</li> <li>• Pharmacist competences</li> <li>• Dispensing logs</li> </ul>	Hooper	1,5	N/A
11	3/30 – 4/1	Formulary II <ul style="list-style-type: none"> <li>• P&amp;T presentation</li> </ul>	Yang	2	N/A
12	4/6	Midterm Exam 2			
13	4/13 – 15	Transitions of care <ul style="list-style-type: none"> <li>• Admission med rec</li> <li>• DC planning               <ul style="list-style-type: none"> <li>○ Resources for uninsured patients</li> <li>○ Rx generation</li> <li>○ DC med rec/med list</li> </ul> </li> <li>• Discharge counseling</li> </ul>	Yang	2,3	N/A
14	4/20 – 4/22	Medical emergencies <ul style="list-style-type: none"> <li>• Manage crash cart/ACLS</li> <li>• Introduce pediatric crash cart</li> <li>• Stroke</li> </ul>	Wilder	5	N/A
15		Cumulative final exam			