PHAR 7192: Non-Sterile Compounding Spring Semester 2020

Course Description

Introduction to the science and practice of non-sterile pharmaceutical compounding.

Additional Course Description

This practical laboratory course offers an insight into the interrelationships between the physical and chemical aspects of compounding. Students will develop compounding skills that are used for the most common types of non-sterile preparations, employing standards of good compounding practices.

Course Credit

1 credit hour

Pre-Requisites

PHAR 7201: Pharmaceutical Calculations

Co-Requisites

Completion or current enrollment in PHAR 7402 (Pharmaceutics)

Class Meeting Days, Time & Location (Two components)

- All students in PHAR 7192 will meet on every Monday from 4 pm to 5 pm in room 137 for recitation.
- Please see below the schedule for four lab groups (This practical compounding part will take place in room 211 from 2 pm to 5 pm on T & TR).

Course Coordinator

Farah Deba, Ph.D.

W.T. Brookshire Hall Room # 345 Phone number: (903) 566-6259 Email: fdeba@uttyler.edu

Office hours: M & TR 9:00 am – 10:00 am or 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 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

1. The Art, Science, and Technology of Pharmaceutical Compounding. 5th ed. Loyd V. Allen. (2016). e-ISBN: 1-58212-263-6. American Pharmacists Association. (Electronic copies are available through the Robert R. Muntz Library)

- 2. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems. 9th ed. Allen LV, Popovich NG, Ansel HC, et.al. Lippincott Williams & Wilkins. (2010) ISBN: 978-0-78-177934-0. (Reserved copies are available at the Robert R. Muntz Library)
- 3. Other required materials will be posted on the classes' Canvas site. The site address is: uttyler.edu/canvas.

Recommended Materials

1. Pharmaceutical Calculations, 15th ed. Howard C. Ansel. 2017. ISBN: 978-1-4963-0071-3. Walter Kluwer. (Electronic copies are available through the Robert R. Muntz Library)

Course Format

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

- 1. Recitation (Pre-lab and review of calculations)
- 2. Extemporaneous compounding of pharmaceutical preparations.

Course Learning Outcomes (CLOs)

CLOs	Related PLO(s)	Assessment Methods	Grading Method	JCPP Skill(s) Assessed	ACPE Std. 11 & 12
1. Demonstrate skills in extemporaneous compounding of selected liquid, semisolid and solid pharmaceutical preparations.	1	1, 2	ES, RUB	NA	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	Each product compounded by the students will be evaluated.	Rubric (RUB) – presented below
2	Multiple Choice or Multiple Selection or fill in the blank Question(s)	Standard MCQ and Select All that apply questions in ExamSoft (ES)

Grading Policy & Grade Calculation

Midterm	15%
Final (Cumulative)	25%
**Lab work:	60%

**Each product compounded by the students will be graded based on the accuracy of calculations, methods, product's quality, printed/written label and cleanliness of the workstation as:

Each completed prescription is worth 100 points:

• Calculations: 40 points (No partial credit)

• Methods: 15 points

• Product quality/elegance: 15 points

• Label: 30 points

A	90 - 100 %
В	80 - 89.999 %
С	70 - 79.99 9 %
D	65.0 - 69.99 9 %
F	< 65.0 %

<u>Listed below are errors and their point values (Students may lose maximum 100 points in a lab)</u>

ERROR POINTS LOST

Dispensing functions

*	Wrong patient, drug, or directions	100
*	Lack of "pharmaceutical elegance (e.g., wrinkled label)	15
*	Improperly compounded prescription	15
*	Failure to detect an error on the written prescription	15
*	Harmful drug interaction, if any (check patient profiles)	15

Dosage form Preparation

Please check "Grading Sheet" in each preparation	14	nreparation	each r	'in	Sheet'	adino	"Gra	check	Please	*
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Labeling

Missing or incorrect label information:

*	Name, address, and phone number of the pharmacy	15
*	Prescription number if applicable	15
*	Date prepared (lab date)	15
*	Beyond Use Date (BUD)	15
*	Patient's name, and/or species if applicable	15
*	Prescriber's name	15
*	Directions to the patient, and cautionary statements	15
	Initials of the pharmacist filling the prescription	15

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 Number of refill(s) Name of the preparation and strength Quantity dispensed of the product Transfer statement if a Schedule II, III, or IV drug All state labeling requirements 	15 15 15 15 15
GMP Practice and Documentation	
Points will be deducted for the following:	
Missing initials	15
 Failure to follow GMP practice 	15
Counseling (if needed) ❖ Failure to counsel (if needed) ❖ Misinformation ❖ General lack of knowledge ❖ Inability to answer patient's questions ❖ Failure to provide obvious warnings ❖ Failure to instruct on proper use	15 15 15 15 15 15
<u>Laboratory conduct</u>	
 Unprofessional attitude/conduct 	100
 Leaving own work station dirty 	30
Disposing insoluble materials in the sink	30
Failure to complete the work by 5 pm	30
Leaving common work areas (e.g., sink) dirty lose points.)	15 (every student in that section will

	PHAR 7192: Non-Sterile Compounding Schedule Spring 2020									
Week	Date	Day	Topic	Instructor	CLO	WSOP Category				
1	01/13	M (All in room 137, 4 pm to 5 pm)	-Introduction, policy & procedure -Recitation	Dr. Deba	1	S19				
	01/14	T (2pm – 5pm) (Group A)	-Simple Syrup, NF -Oral Suspension							
	01/16	TR (2pm – 5pm) (Group C)								
2	01/20	M	MLK Day – No Class	Dr. Deba	1	S19				
	01/21	T (2pm – 5pm) (Group B)	-Simple Syrup, NF -Oral Suspension							
	01/23	TR (2pm – 5pm) (Group D)								

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3	01/27	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S 19
	01/28	T (2pm – 5pm) (Group A)	- Benzyl Peroxide Ointment - Cold Cream			
	01/30	TR (2pm – 5pm) (Group C)				
4	02/03	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S 19
	02/04	T (2pm – 5pm) (Group B)	- Benzyl Peroxide Ointment - Cold Cream			
	02/06	TR (2pm – 5pm) (Group D)				
5	02/10	M (All in room 137, 4 pm to 5 pm)	-Recitation			
	02/11	T (2pm – 5pm) (Group A)	- Lip Balm - Promethazine Topical Gel	Dr. Deba	1	S19
	02/13	TR (2pm – 5pm) (Group C)				
6	02/17	M (All in room 137, 4 pm to 5 pm)	Midterm	Dr. Deba	1	S19
	02/18	T (2pm – 5pm) (Group B)	- Lip Balm - Promethazine Topical Gel			
	02/20	TR (2pm – 5pm) (Group D)				
	02/24	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	11	S19
7	02/25	T (2pm – 5pm) (Group A)	- Sorbitol Base Lollipop			
	02/27	TR (2pm – 5pm) (Group C)				
8	03/02	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S19
	03/03	T (2pm – 5pm) (Group B)	- Sorbitol Base Lollipop			
	03/05	TR (2pm – 5pm) (Group D)				
	03/09	M T	Spring Break			
		W				
		TR				
	03/13	F				0.1.0
	03/16	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S19
9	03/17	T (2pm – 5pm) (Group A)	- Suppositories			

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	03/19	TR (2pm – 5pm) (Group C)				
	03/23	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S19
10	03/24	T (2pm – 5pm) (Group B)	- Suppositories			
	03/26	TR (2pm – 5pm) (Group D)				
	03/30	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S19
11	03/31	T (2pm – 5pm) (Group A)	-Capsules	Dr.		
	04/02	TR (2pm – 5pm) (Group C)		Talukder		
	04/06	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S19
12	04/07	T (2pm – 5pm) (Group B)	-Capsules	Dr.		
	04/09	TR (2pm – 5pm) (Group D)		Talukder		
	04/13	M (All in room 137, 4 pm to 5 pm)	-Recitation	Dr. Deba	1	S19
13	04/14	T (2pm – 5pm) (Group A)	-Hair Moisturizer for Horses and Other Animals.			
	04/16	TR (2pm – 5pm) (Group C)	- Gelatin base Animal Chewable treat			
	04/20	M (All in room 137, 4 pm to 5 pm)	Final Exam (Comprehensive)	Dr. Deba	1	S19
14	04/21	T (2pm – 5pm) (Group B)	-Hair Moisturizer for Horses and Other Animals.			
	04/23	TR (2pm – 5pm) (Group D)	- Gelatin base Animal Chewable treat			

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.

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