

# **PHAR 7192: Non-Sterile Compounding**

## **Spring Semester 2026**

### **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 every Wednesday from 8 am to 9 am in room 136 for recitation.
- Please see below the schedule for the lab (This practical compounding part will take place in room 211 from 9.30 am to 12.30 pm on Wednesday and 9.00 am to 12.00 pm on Friday).
- Supplemental Instruction 12.30 pm to 1.00 pm on Friday.

### **Course Coordinator**

Farah Deba, Ph.D.

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Preferred method of contact: Email

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### **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.

## Required Materials

1. The Art, Science, and Technology of Pharmaceutical Compounding. 5<sup>th</sup> ed. Loyd V. Allen. (20.9916). 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. 9<sup>th</sup> ed. Allen LV, Popovich NG, Ansel HC, et.al. Lippincott Williams & Wilkins. (20.9910) 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](http://uttyler.edu/canvas).

## Recommended Materials

1. Pharmaceutical Calculations, 15th ed. Howard C. Ansel. 20.9917. ISBN: 978-1-4963-0071-3. Walters 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	RUB	NA	NA
2. Demonstrate skills in solving numerical problems related to nonsterile compounding	1	2	ES, Paper-based	NA	NA

## Course Assessment Methods

	Assessment Method	Description
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	Standard MCQ, Select All that apply questions, and fill in the blank question(s) in ExamSoft (ES), paper-based exam.

	Question(s), paper-based calculations.	
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## Grading Policy & Grade Calculation

### Recitation (50% of the grade)

Quiz	10%
Midterm	15%
Final (Cumulative)	25%

Lab work \*\* 50%

Students must pass both recitation and lab work separately; that is, they must receive a score of 70% or higher in the recitation and a score of 70% or higher in the lab to pass this course. If a student receives a grade of less than 70% in either the recitation or the lab, they will receive a grade of D or F in the course. For example, if a student receives 80% in the laboratory and 64% in the recitation, they will receive a final grade of F. If the student receives 80% in the laboratory and 66% in the recitation, they will receive a final grade of D.

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

### Each completed prescription is worth 100 points:

- Lab test: 10 points (every week after recitation class)
- Calculations: 30 points (No partial credit)
- Methods: 15 points
- Product quality/elegance: 15 points
- Label: 30 points

A	90 - 100 %
B	80 - 89.999 %
C	70 - 79.999 %
D	65.0 - 69.999 %
F	< 65.0 %

**Listed below are errors and their point values (Students may lose a maximum of 100 points in a lab)**

**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 the "Grading Sheet" in each preparation 15

### **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
- ❖ Number of refill(s) 15
- ❖ Name of the preparation and strength 15
- ❖ Quantity dispensed of the product 15
- ❖ Transfer statement if a Schedule II, III, or IV drug 15
- ❖ All state labeling requirements 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) 15
- ❖ Misinformation 15
- ❖ General lack of knowledge 15
- ❖ Inability to answer patient's questions 15
- ❖ Failure to provide obvious warnings 15
- ❖ Failure to instruct on proper use 15

### **Laboratory conduct**

- ❖ Unprofessional attitude/conduct 100
- ❖ Leaving own workstation dirty 30
- ❖ Disposing of insoluble materials in the sink 30
- ❖ Failure to complete the work by 12 pm 30
- ❖ Leaving common work areas (e.g., sink) dirty 15 (every student in that section will lose points.)

PHAR 7192: Non-Sterile Compounding Schedule Spring 2026						
Week	Date	Day (Wednesdays = Recitations)	Topic	Instructor	CLO	WSOP Category
1	01/14	W (Room, 136) 8 am to 9 am	-Introduction, policy & procedure -Recitation	Dr. Deba Dr. Marsh	1	S20.99
	01/14	W (9.30 am – 12 pm) (Group A)	-Simple Syrup, NF -Oral Suspension			
	01/16	F (9 am – 12 pm) (Group C)	-Simple Syrup, NF -Oral Suspension			
2	01/21	W (Room, 136) 8 am to 9 am	Recitation	Dr. Deba Dr. Marsh	1	S20.99
	01/21	W (9.30 am – 12 pm) (Group B)	-Simple Syrup, NF -Oral Suspension			
	01/23	F (9 am – 12 pm) (Group D)	-Simple Syrup, NF -Oral Suspension			
3	01/28	W (Room, 136) 8 am to 9 am	-Recitation	Dr. Deba Dr. Marsh	1	S20.99
	01/28	W (9.30 am – 12 pm) (Group A)	-Cold Cream -Benzyl Peroxide Ointment			
	01/30	F (9 am – 12 pm) (Group C)	-Cold Cream -Benzyl Peroxide Ointment			
4	02/04	W (Room, 136) 8 am to 9 am	-Recitation QUIZ1	Dr. Deba Dr. Marsh	1	S20.99
	02/04	W (9.30 am – 12 pm) (Group B)	-Cold Cream -Benzyl Peroxide Ointment			
	02/06	F (9 am – 12 pm) (Group D)	-Cold Cream -Benzyl Peroxide Ointment			
5	02/11	W (Room, 136) 8 am to 9 am	-Recitation	Dr. Deba Dr. Marsh	1	S20.99
	02/11	W (9.30 am – 12 pm) (Group A)	-Camphor-Menthol Lip Balms -Promethazine Topical Gel			
	02/13	F (9 am – 12 pm) (Group C)	-Camphor-Menthol Lip Balms -Promethazine Topical Gel			

6	02/18	W (Room, 136) 8 am to 9 am	Recitation	Dr. Deba Dr. Marsh	1	S20.99
	02/18	W (9.30 am – 12 pm) (Group B)	-Camphor-Menthol Lip Balms -Promethazine Topical Gel			
	02/20	F (9 am – 12 pm) (Group D)	-Camphor-Menthol Lip Balms -Promethazine Topical Gel			
7	02/25	W (Room, 136) 8 am to 9 am	-Recitation	Dr. Deba Dr. Marsh	1	S20.99
	02/25	W (9.30 am – 12 pm) (Group A)	-Sorbitol Base Lollipop -Acetaminophen Suppositories			
	02/25	F (9 am – 12 pm) (Group C)	-Sorbitol Base Lollipop -Acetaminophen Suppositories			
8	03/04	W (Room, 136) 8 am to 9 am	-Recitation	Dr. Deba Dr. Marsh	1	S20.99
	03/04	W (9.30 am – 12 pm) (Group B)	-Sorbitol Base Lollipop -Acetaminophen Suppositories			
	03/06	F (9 am – 12 pm) (Group D)	-Sorbitol Base Lollipop -Acetaminophen Suppositories			
9	03/9	Spring Break				
10	03/18	W (Room, 136) 8 am to 9 am	-Recitation - Midterm	Dr. Deba Dr. Marsh	1	S20.99
	03/18	No Lab				
	03/20	No Lab				
11	03/25	W (Room, 136) 8 am to 9 am	-Recitation	Dr. Deba Dr. Marsh	1	S20.99
	03/25	W (9.30 am – 12 pm) (Group A)	-Boric Acid-Sodium Borate Buffer -Hair Moisturizer for Horses and Other Animals. -Gelatin-based Animal Chewable treat			
	03/27	F (9 am – 12 pm) (Group C)	-Boric Acid-Sodium Borate Buffer - Hair Moisturizer for Horses and Other Animals.			

			- Gelatin-based Animal Chewable treat			
12	04/01	W (Room, 136) 8 am to 9 am	-Recitation	Dr. Deba Dr. Marsh	1	S20.99
	04/01	W (9.30 am – 12 pm) (Group B)	-Boric Acid-Sodium Borate Buffer -Hair Moisturizer for Horses and Other Animals. -Gelatin-based Animal Chewable treat			
	04/03	F (9 am – 12 pm) (Group D)	-Boric Acid-Sodium Borate Buffer -Hair Moisturizer for Horses and Other Animals. -Gelatin-based Animal Chewable treat			
13	04/08	W (Room, 136) 8 am to 9 am	-Recitation	Dr. Deba Dr. Marsh	1	S20.99
	04/08	W (9.30 am – 12 pm) (Group A)	- Acetaminophen Capsules			
	04/10	F (9 am – 12 pm) (Group C)	- Acetaminophen Capsules			
14	04/15	W (Room, 136) 8 am to 9 am	-Recitation <b>QUIZ 2</b>	Dr. Deba Dr. Marsh	1	S20.99
	04/15	W (9.30 am – 12 pm) (Group B)	- Acetaminophen Capsules			
	04/17	F (9 am – 12 pm) (Group D)	- Acetaminophen Capsules			
15	TBD	M (Room, 236) 8 am to 9:50 am	Final Exam (Comprehensive)			
<p><i>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.</i></p>						