

# PHARMACEUTICS 531P

## Pharmaceutical Formulation: Principles and Dosage Forms

### COURSE SCHEDULE - AUTUMN 2019

11:30 - 12:20 Tuesdays, Thursdays, and Fridays, Health Science T639, Lectures

11:30-12:20 Mondays; 12:30-13:20 on 9/30 (Mon), 10/04 (Fri), 10/07 (Mon), 12/02 (Mon), T639, Mandatory

Sessions including Pre-lab Sessions

Mondays (10/14, 10/21, 10/28, 11/04, 11/18), Mandatory Labs

Fridays (10/18, 10/25, 11/01, 11/08, 11/22), Mandatory Labs

Section AA Lab 12:30 – 2:20 Mondays, T482

Section AB Lab 2:30 – 4:20 Mondays, T482

Section AC Lab 12:30 – 2:20 Fridays, T482

Section AD Lab 2:30 – 4:20 Fridays, T482

TAs: XXX and XXX

DATE	INSTRUCTOR	LECTURE	ANSEL Pharm aceutic al Dosage Forms, 9th Ed.	ANSEL Pharmaceut ical Calculations , 14 <sup>th</sup> Edition	LAB EXERCISE
09/26 (Thu)	QM	Introduction to Drug Formulations	Chapter 1		
09/27 (Fri)	BP	Basic PK/PD relevant to Drug Formulations			
09/30 (Mon)	SL	Weight & Measurement	101-101 331-375	Chapters 2, 3	Mandatory session 11:30 – 12:20 in T639
09/30 (Mon)	QM	Solutions & Solubility I	679-688	Chapters 1, 2, 6, 9, 12	Mandatory session 12:30 - 13:20 in T639
10/01 (Tue)	QM	Solutions & Solubility II	679-688	Chapters 1, 2, 6, 9, 12	
10/03 (Thu)	QM	Colligative Properties of Solutions and Isotonic Solutions	440-445	Chapter 11	
10/04 (Fri)	QM	Pharmaceutic al Solutions I	331-375 431-492 531-558	Chapter 5	
10/04 (Fri)	QM	Pharmaceutic al Solutions II	331-375 431-492 531-558	Chapter 5	Mandatory session 12:30 – 13:20 in T639
10/07 (Mon)	TA	Calculations on Weight & Measurement, Concentration Units			Mandatory Tutorial session 11:30 – 12:20 in T639
10/07 (Mon)	TA	Calculations on Solution & Solubility, and Isotonic			Mandatory Tutorial session 12:30 – 12:20 in T639

		Solutions			
10/08 (Tue)	SL	IV fluids			
10/10 (Thu)	SL	Powders and Capsules	184-224		
10/11 (Fri)	QM	Surfactants: Theory, Types and HLB Systems			
10/14 (Mon)	SL	Pre-lab session for Lab 1, Capsules and Powder Preparation			Mandatory Pre-lab session 11:30 – 12:20 in T639
10/14 (Mon)	SL	Lab 1 in T482			Section AA: 12:30-2:20 Section AB: 2:30-4:20
10/15 (Tue)	QM	Emulsions			
10/17 (Thu)	QM	Suspensions: Types & Stability	Chapter 14		
10/18 (Fri)		Tablets: Types & Manufacturing	Chapter 8		
10/18 (Fri)	SL	Lab 1 in T482			Section AC: 12:30-2 :20 Section AD: 2:30-4 :20
10/21 (Mon)	SL	Pre-lab session for Lab 2, Solubility and Emulsion Preparation			Mandatory Pre-lab session 11:30 – 12:20 in T639
10/21 (Mon)	SL	Lab 2 in T482			Section AA: 12:30-2 :20 Section AB: 2:30-4 :20
10/22 (Tue)	QM/SL	<b>MIDTERM I</b> 09/26-10/18 <b>Lab 1</b>			
10/24 (Thu)	SL	Oral Delivery Systems	Chapter 9 651-653		
10/25 (Fri)	SL	Ointments I: Classification	Chapter s 10 and 14		
10/25 (Fri)	SL	Lab 2 in T482			Section AC: 12:30-2 :20 Section AD: 2 :30-4 :20
10/28 (Mon)	SL	Pre-lab session for Lab 3, Ointment Preparation			Mandatory Pre-lab session 11:30 – 12:20 in T639
10/28 (Mon)	SL	Lab 3 in T482			Section AA: 12 :30-2 :20 Section AB: 2:30-4 :20
10/29 (Tue)	SL	Ointments II: Uses, Compounding, Other Topicals	Chapter s 10 and 14		

10/31 (Thu)	SL	Suppositories	Chapter 12		
11/01 (Fri)	BP	Drug Stability I	111-142		
11/01 (Fri)	SL	Lab 3 in T482			Section AC: 12:30-2 :20 Section AD: 2 :30-4 :20
11/04 (Mon)	SL	Pre-lab session for Lab 4, Suppository Preparation			Mandatory Pre-lab session 11:30 – 12:20 in T639
11/04 (Mon)	SL	Lab 4 in T482			Section AA: 12:30-2 :20 Section AB: 2 :30-4 :20
11/05 (Tue)	BP	Drug Stability II	111-142		
11/07 (Thu)	BP	Drug Dissolution and Absorption after Oral Administration I	147-153		
11/08 (Fri)	BP	Drug Dissolution and Absorption after Oral Administration II	147-153		
11/08 (Fri)	SL	Lab 4 in T482			Section AC: 12:30-2 :20 Section AD: 2:30-4 :20
11/11 (Mon)		<b><i>THE VETERANS DAY HOLIDAY</i></b>			
11/12 (Tue)	QM/SL/BP	<b>MIDTERM II</b> 10/24-11/08 <b>Labs 2-4</b>			
11/14 (Thu)	SA	Route of Administration - Intramuscular /Subcutaneous			
11/15 (Fri)	SA	Route of Administration - Percutaneous			
11/18 (Mon)	SL	Pre-lab session for Lab 5, Prescription presentation			Mandatory Pre-lab session 11:30 – 12:20 in T639
11/18 (Mon)	SL	Lab 5 in T482			Section AA: 12:30-2:20 Section AB: 2:30-4 :20
11/19 (Tue)	SA	Route of Administration - Ophthalmic			

11/21 (Thu)	SA	Route of Administration - Nasal/Buccal/Sublingual			
11/22 (Fri)	SA	Route of Administration - Inhalation/Rectal			
11/22 (Fri)	SL	Lab 5 in T482			Section AC: 12:30-2 :20 Section AD: 2:30-4 :20
11/25 (Mon)	RH	Advanced Drug Delivery Concept I			Mandatory session 11:30 – 12:20 in T639
11/26 (Tue)	RH	Advanced Drug Delivery Concept II			
11/28 (Thu), 11/29 (Fri)		<b><i>THANKSGIVING HOLIDAY</i></b>			
12/02 (Mon)	RH	Advanced Drug Delivery Concept III			Mandatory session 11:30 – 12:20 in T639
12/02 (Mon)	Dawn Ipsen	Contemporary Compounding in Pharmacy			Mandatory session 12:30 – 13:20 in T639
12/03 (Tue)	RH	Advanced Drug Delivery Concept IV			
12/05 (Thu)	BP	Dosage Form Devices			
12/06 (Fri)	QM/BP/SA/RH	Overview and Evaluation			
12/09 (Mon)		<b>FINAL EXAM</b> Comprehensive <b>Labs 1 – 5</b> <b>8:30-10:20 AM</b>			