WINTER 2010 **PHC 7010 Introduction to Graduate Pharmacology (4 credits)**
Tues and Thurs 11:00 - 1:00 pm at 3125 Scott Hall
TEXTBOOK: Principles of Pharmacology 2nd Edition by Golan *et al*. LIPP/W+W. ISBN:9780781783552
A. Wakade and H.-Y. Wu, course directors

Day	Date	Lecture title	Hr	Lecturer
		A. GENERAL PRINCIPLES		
Tues	12-Jan	Introduction/Receptors, dose-response curves	1	Wakade, Wu/Yamazaki
		Receptor kinetics	1	Yamazaki
Thur	14-Jan	Absorption, distribution, elimination, drug safety	1	Yamazaki
		Drug metabolism	1	Lash
Tues	19-Jan	Pharmacokinetics I	1	Yamazaki
		Pharmacokinetics II	1	Yamazaki
		Total Block A	6	
		B. AUTONOMIC PHARMACOLOGY		
Thur	21-Jan	Review of physiology of the autonomic nervous system	1	Mattingly
		Cholinergics: characterization of receptor signaling	1	Mattingly
Tues	26-Jan	Muscarinic receptors and G proteins	1	Mattingly
		Nicotinic receptors; anticholinesterases	1	Mattingly
Thur	28-Jan	Introduction to adrenergics	1	Wakade
		NE synthesis, storage, release	1	Wakade
Tues	2-Feb	Adrenergic agonists	1	Wakade
		Adrenergic antagonists	1	Wakade
		Total Block B	8	
Thur	4-Feb	Examination 1 for Blocks A and B (14 hr total)		
Tues	9-Feb	PHARMACOGENOMICS	1	Lash
		C. CENTRAL NERVOUS SYSTEM		
Tues	9-Feb	Nociception and opiates	1	Schoener
Thur	11-Feb	Drug abuse 1	1	Schoener
		Drug abuse 2	1	Schoener
Tues	16-Feb	CNS Principles	1	Kapatos
		Glutamate	1	Andrade
Thur	18-Feb	GABA (Sedative hypnotics)	1	Kapatos
		Serotonin	1	Andrade
Tues	23-Feb	Antidepressants/Mood disorders	1	Artalejo
		Local and general anesthetic agents	1	Tisdale
Thur	25-Feb	Abnormal electrical transmission (Epilepsy)	1	Bannon
		Dopamine (schizophrenia and parkinsons)	1	Bannon
		Total Block C	11	
Tues	2-Mar	Examination 2 for Pharmacogenomics and Block C (12 hr total)		
		Totals for Pharmacogenomics and Blocks A-C	26	
		IBS System Biology 2 credit course: Biomedical Neuropharmacology (IBS7100) ends here		
		D. CARDIOVASCULAR/RENAL PHARMACOLOGY		
Thur	4-Mar	Toxicology I	1	Lash
		Toxicology II	1	Lash
Tues	9-Mar	ACE and calcium channel blockers	1	Wakade
		Antihypertonsive agents	1	Wakade
Thur	11-Mar	Renal function	1	McCauley
		Cardiac agents I	1	McCauley
Tues	16-Mar	*Spring Break*		
Thur	18-Mar	*Spring Break*		
Tues	23-Mar	Cardiac agents II	1	McCauley
		Cardiac agents III	1	McCauley
Thur	25-Mar	Coagulation, thrombolytics	1	List
		Lipid lowering agents	1	Yamazaki
		Total Block D	10	
Tues	30-Mar	Examination 3 for Block D (10 hr total)		
		E. INFLAMMATION AND ENDOCRINE PHARMACOLOGY		
Thur	1-Apr	Antiinflammatory agents I	1	McCauley
		Antiinflammatory agents II	1	McCauley
Tues	6-Apr	Adrenal steroids	1	Wu
		Gonadal steroids	1	Wu
Thur	8-Apr	Thyroid	1	Davis
		Diabetes	1	Davis
Tues	13-Apr	Histamine/antihistamines	1	Terlecky
		Total Block E	7	
		F. CHEMOTHERAPY		
Tues	13-Apr	Introduction to chemotherapy: Anticancer agents I	1	Matherly
Thur	15-Apr	Anticancer agents II	1	Matherly
		Anticancer agents III	1	Matherly
Tues	20-Apr	Antimicrobials, beta-lactams	1	Wu
		Inhibitors of protein synthesis and DNA function	1	Wu
Thur	22-Apr	Antifolates, antifungals, and antiviral agents	1	Wu
		HIV drugs and Immunosuppressives	1	Terlecky
		Total Block F	7	
Thur	29-Apr	Examination 4 for Blocks E and F (14 hrs)		
		Totals for course	50	