

Southwestern Oklahoma State University College of Pharmacy
PHARM 4745, Pharmacology II
Autumn 2004
Class Syllabus

Course Title: Pharmacology II

Course Number: PHARM 4745

Credits: Five (5)

Prerequisites: PHARM 4655, Pharmacology I

Corequisites: PHARM 4033 (Pharmaceutics III), 4413 (Medicinal Chemistry I), and 4633 (Pharmacokinetics)

Course Description: A continuation of Pharmacy 4655 with discussions of specific drug categories. **Text:** *Goodman and Gilman's The Pharmacological Basis of Therapeutics*, 10th. Edition, 1996, J. G. Hardman & L. E. Limbird, Eds.; McGraw Hill, Publishers (Required)

Instructor: Dr. Scott F. Long

Office: 382 CPP

Phone: 774-3136

E-mail: scott.long@swosu.edu

Homepage: <http://faculty.swosu.edu/scott.long/>

Assignments: Students are expected to read ahead and become familiar with the topics to be discussed in class. Specific course readings may be assigned throughout the semester. Lecture assignments will be evaluated by both scheduled tests and un-announced quizzes as described below.

ADA: If any member of the class feels that s/he has a disability that places them in need of special academic accommodations, they should advise the instructor no later than the first scheduled class meeting. The instructor will then work with them and Student Services in order to provide reasonable accommodations to ensure they have an equal opportunity for class performance.

Examinations and Evaluation:

Course Grades will be determined and letter grades assigned by the following criteria:

Quizzes	5%		
Test 1	15%	A= 89.5 and above	No curving of individual tests will occur, however the faculty reserve the right to curve final course grades.
Test 2	15%	B= 79.5 - 89.4	
Test 3	15%	C= 69.5 - 79.4	
Test 4	15%	D= 59.5 - 69.4	
Test 5	15%	F = 59.4 and below	
Final Examination	20%		

The quizzes will be unannounced and will include material that has been covered in class since the previous quiz or test. There will be up to twelve (12) quizzes throughout the semester, with the lowest quiz scores dropped, based upon multiples of six (if there are 6-11 quizzes, one will be dropped, if there are 12 quizzes, the two lowest will be dropped). Students may submit returned examinations (but not quizzes) for regrade. The conditions for this regrade shall be 1) the student feels that their answer was correct or was improperly graded, 2) the student shall provide written evidence, with references, supporting their argument, and 3) the examination is submitted no later than one (1) week following its return to the student, no examinations submitted after one week will be accepted for regrade. Keys to the examination will be posted for one (1) week following the return of the examination. Keys will not be available after this one week period. Class attendance is not taken. However regular presence, class participation, and obvious interest in the subject material may prove beneficial in the determination of final grades.

Examination Policy -- Students are expected to make every effort to sit for a scheduled examination. However, if circumstances prevent this and the absence is deemed excused (illness, death in the family or other extenuating circumstances as determined by the instructor), the student is expected to make up the examination within three (3) days of their return. If at all possible (all but the most extenuating circumstances), the student should inform the instructor of their inability to write an examination. No examinations may be "made up" before the class examination. Make up examinations, administered for excused absences as described above, shall be comprised of essay questions designed to encompass all of the examination material.

Honour Code -- Students should exhibit the same code of honesty and integrity as those presented by the profession of pharmacy. Therefore, all students are expected to conduct themselves in a manner that would place them above suspicion of any dishonest activity during an examination. To alleviate confusion, congestion, and temptation, all books, bookbags, hats, coats, purses, or other personal material will be placed in the front of the examination room.

Any student suspected of "a tendency to observe a fellow student's examination" will be warned. If the behaviour continues, the student will receive a grade of zero for that exam. If the student is involved in a second offence, they will receive an "F" grade for the course with a recommendation for suspension from the school. Any student who suspects another student of inappropriate examination behaviour is morally responsible for that student and should inform the instructor and request to be seated elsewhere within the lecture hall.

Course Outline:

Week	Date	Day	Lecture	Lecture Topic
1	18 Aug	Wed	1	Introduction, Receptor Review
	19	Thu	2	Inflammation & Histamine
	20	Fri	3	Histamine, H1-Antihistaminics

2	23	Mon	4	H1-Antihistaminics
	24	Tue	5	H2-Antihistaminics, Proton Pump Inhibitors
	25	Wed	6	Peptic Ulcer Disease, Serotonin
	26	Thu	7	Serotonin Agonists, Treatment of Migraine
	27	Fri	8	Treatment of Migraine, Serotonin Antagonists, Bradykinin
3	30	Mon	9	Kallikrein System, Eicosonoids, Prostaglandin Agonists
	31	Tue	10	Leukotriene Antagonists, Salicylates
	1 Sep	Wed	11	Salicylates, Non-Salicylate NSAIDs
	2	Thu	12	Paracetamol, Other Anti-inflammatory Drugs
	3	Fri	13	Other Drugs for Arthritis, Gout
4	6	Mon		Labour Day – Bank Holiday
	7	Tue	14	Drugs used in Gout
	8	Wed	15	Alternative Therapies -- END MATERIAL FOR TEST 1
	9	Thu	16	Cardiac Glycosides – PFA Meeting
	10	Fri	17	Cardiac Glycosides – PFA Meeting
5	13	Mon	18	Other Drugs Used in CHF
	14	Tue	19	Introduction to Anti-Arrhythmics -- TEST 1
	15	Wed	20	Anti-Arrhythmics
	16	Thu	21	Anti-Arrhythmics
	17	Fri	22	Drugs Used in Angina Pectoris
6	20	Mon	23	Anti-Anginals
	21	Tue	24	Anti-Hyperlipidaemics
	22	Wed	25	Anti-Hyperlipidaemics
	23	Thu	26	Alternative Therapies -- END MATERIAL FOR TEST 2
	24	Fri	27	Drugs Used to Modify Hæmostasis
7	27	Mon	28	Hæmostasis
	28	Tue	29	Hæmostasis -- TEST 2
	29	Wed	30	Drugs Used in Peripheral Vascular Disease
	30	Thu	31	Diuretics
	1 Oct	Fri	32	Diuretics
8	4	Mon	33	Diuretics
	5	Tue	34	Diabetes Insipidus, Hyperkalæmia, Anæmias
	6	Wed	35	Drugs Used in Anæmias
	7	Thu	36	Alternative Therapies -- END MATERIAL FOR TEST 3
	8	Fri	37	Hypothalamic & Pituitary Hormones
9	11	Mon	38	Hypothalamic & Pituitary Hormones
	12	Tue	39	Hypothalamic & Pituitary Hormones
	13	Wed	40	Posterior Pituitary Hormones, Physiology of Œstrogens
	14	Thu		FALL BREAK
	15	Fri		FALL BREAK

10	18	Mon	41	Estrogens & Progestins
	19	Tue	42	Oral Contraceptives -- TEST 3
	20	Wed	43	Oral Contraceptives, Anti-Estrogens, Progestin Antagonists
	21	Thu	44	Physiology of Androgens
	22	Fri	45	Anti-Androgens, Mechanism of Action of Glucocorticoids
11	25	Mon	46	Glucocorticoid Physiology, Adrenal Insufficiency
	26	Tue	47	Cushing's Disease, Physiology of Insulin
	27	Wed	48	Insulin and Oral Hypoglycemics
	28	Thu	49	Physiology & Function of the Thyroid Gland
	29	Fri	50	Thyroid Hormone Replacements and Antagonists
12	1 Nov	Mon	51	Parathormone and Calcium Homeostasis
	2	Tue	52	Calcium Homeostasis
	3	Wed	53	Alternative Therapies -- END MATERIAL FOR TEST 4
	4	Thu	54	Anti-Parasitics
	5	Fri	55	Anthelmintics
13	8	Mon	56	Anti-Protozoals
	9	Tue	57	Anti-Protozoals, Systemic Anti-Fungals -- TEST 4
	10	Wed	58	Local Anti-Fungals, Drugs Used in Tuberculosis
	11	Thu	59	Tuberculosis, Leprosy
	12	Fri	60	Inhibitors of Cell Wall Synthesis, β Lactam Antibiotics
14	15	Mon	61	Other Cell Wall Inhibitors; Aminoglycoside and Tetracycline Antibiotics
	16	Tue	62	Fluoroquinolone & Sulphonamide Antibacterials
	17	Wed	63	Macrolide & Miscellaneous Antibiotics -- END MATERIAL FOR TEST 5
	18	Thu	64	Anti-Viral Agents
	19	Fri	65	Anti-Virals
15	22	Mon	66	Immunomodulators
	23	Tue	67	Immunomodulators, Alternative Therapies -- TEST 5
	24	Wed		THANKSGIVING BREAK
	25	Thu		THANKSGIVING BREAK
	26	Fri		THANKSGIVING BREAK
16	29	Mon	68	Anti-Neoplastic Overview, Alkylating Agents
	30	Tue	69	Alkylating Agents, Anti-Metabolites
	1 Dec	Wed	70	Anti-Metabolites
	2	Thu	71	Natural Products (Plant-Derived)
	3	Fri	72	Antibiotic Antineoplastics
17	6	Mon	73	Miscellaneous Anti-neoplastics -- ASHP Meeting
	7	Tue	74	Miscellaneous Anti-neoplastics -- ASHP
	8	Wed	75	Dermatologicals -- ASHP
	9	Thu		FINAL EXAMS BEGIN -- ASHP
	10	Fri		