

Steven A. Fink; Instructor
SUMMER 2014
MSA 005; MW 12:40 - 2:45
sec. #8510
OFFICE HOURS: 2:45-3:10 PM [MSA 005]

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Biology 208

PHARMACOLOGY

Course Description: This course presents the basic principles of pharmacology including the pharmacodynamics, pharmacokinetics, adverse reactions, and contra-indications of selected drug groups. Emphasis will be placed on those drug groups especially relevant to dental practice including analgesics, local anesthetics, nitrous oxide, anti-infectives, antibiotics and anti-viral drugs. In addition, the most common classes of drugs the dental patient is taking in the management of common diseases and disorders will be covered, including autonomic drugs, cardiovascular drugs, antihistamines, anti-inflammatory drugs, sedatives, anxiolytics & anti-depressants, hormones, and antineoplastic drugs.

Student Learning Objectives: A student who completes this class will be able to explain:

- (1) the laws regulating the use and dispensing of various types of drugs
- (2) the mechanisms by which drugs exert their actions
- (3) the differences associated with the administration of drugs by various routes
- (4) the variations in absorption, distribution, metabolism, and excretion of different drugs
- (5) the factors that determine the dose of the drug used
- (6) the types of adverse reactions associated with different drugs and how their toxicities are evaluated
- (7) the clinical indications for the therapeutic use of different drugs using their respective contraindications
- (8) the possible interactions with other medications or health considerations.
- (9) the characteristics of classes of drugs, and the differences between drugs within that class and between different classes.
- (10) the biological variations in response seen in the general population to drugs
- (11) how to use a patient history chart to anticipate drug complications and drug interactions

Exit Skills: Upon completion of this course the student will have the following skills:

- (1) Read and write a drug prescription using the common abbreviations
- (2) List and explain the major pharmacological actions, and uses associated with drug groups studied.
- (3) Use a patient history chart to anticipate drug complications, an drug interactions or other health conditions.

- (4) State the American Heart Association guidelines for antibiotic prophylaxis and be knowledgeable and confident in consultation with dental and medical practitioners regarding the pre-medication of medically compromised dental patients.

Required Text & Supplies:

Steven A. Fink; Pharmacology Lecture Outline; 2014

at least 5 Scan-Trons (#882) and soft lead pencil (no. 1) with a good eraser

Recommended Texts:

Elena Bablenis Haveles; Applied Pharmacology for the Dental Hygienist (6th ed);
Mosby Elsevier; 2011
[ISBN 978-0-323-06558-0]

Richard L. Wynn, et. al; Drug Information Handbook for Dentistry; 18th ed;
Lexi-Comp, Inc; 2013

Physician's Desk Reference; Medical Economics Co.; [ISBN: 0-87489-878-1]

Useful Web-Sites:

www.professorfink.com

<http://www.rxlist.com/>

<http://medlineplus.gov/>

<http://www.aafp.org/>

<http://www.itmonline.org/arts/herbdrug2.htm>

<http://www.mayoclinic.com/>

<http://www.ada.org/>

<http://www.adha.org/>

<http://www.pharmacy.ca.gov/>

Lecture Examination Schedule (Tentative):

EXAMINATION 1.....	JUNE 25 (Wed)
EXAMINATION 2.....	JULY 9 (Wed)
FINAL EXAMINATION.....	JULY 23 (Wed)

Computation of the Lecture Course Grade:

2 Semester Examinations (Averaged).....	60% of Course Grade
Final Examination.....	40% of Course Grade

All examinations will consist of objective-type questions (ie., True/False; Multiple Choice; and Matching) and some short-answer questions. You will be expected to provide a SCAN-TRON 882 (available at the bookstore) and a soft lead pencil (no. 1 or no. 2) for each examination for computer scoring.

Grading Policy:

90 - 100%	A
79 - 89%	B
65 - 78%	C
50 - 64%	D
below 50%	F

Attendance Policy:

Attendance will be taken.

You are responsible for information, exam announcements, date changes, etc. presented in class, whether or not you are present

Withdrawal from Class:

You are responsible for your credit and enrollment status. Any student withdrawing from class must inform the admissions office of this decision. **Students failing to follow the correct procedure for withdrawals will receive a grade of "F" for the semester. No withdrawals are permitted after Thursday, July 17.**
(see Schedule, page 1).

Cheating/Academic Dishonesty:

Each student is expected to do his/her own work on all assignments, reports, examinations, etc. **CHEATING ON AN EXAM WILL RESULT IN AN "F" FOR THE COURSE.**

Here is a list of some actions that are considered cheating:

NO TALKING DURING THE EXAM.

KEEP YOUR EYES ON YOUR OWN EXAM.

USING NOTES OF ANY KIND (ON CARDS, STRIPS OF PAPER, DESK TOP, ETC.) DURING AN EXAM IS NOT PERMITTED.

Showing a fellow student your exam, or passing information in any way is not permitted.

Place your answer sheet(s) directly in front of you.

If you have a question, quietly walk up to the instructor and whisper your question.

Translation dictionaries are not permitted.

Changing the answers on a returned Exam & claiming it was scored wrongly.

All of these demonstrate a lack of Honesty & Integrity which is Essential in all Health Care Professions (& in fact, in all jobs, all relationships, & in all Areas of Life.)

TENTATIVE SCHEDULE OF TOPICS

(schedule subject to change)

WEEK	DAY	DATE	LECTURE TOPIC	TEXT
1	M	JUNE 16	Introduction Principles of Pharmacology Drug Legislation Prescription Writing Pharmacokinetics	chap 1 chap 1 chap 1 chap 4 APPENDIX C chap 2 APPENDIX I chap 25
	W	JUNE 18	Pharmacodynamics Adverse Drug Reactions Use of Health Questionnaires Adverse Drug Reactions Review of the Nervous System	chap 1 chap 3 chap 3 chap 5
2	M	JUNE 23	Autonomic Drugs Drug Dosages & Calculations	chap 5
	W	JUNE 25	<u>EXAMINATION 1</u> Autonomic Drugs	chap 5
3	M	JUNE 30	Cardiovascular Drugs	chap 15
	W	JULY 2	Respiratory Drugs Gastro-Intestinal Drugs Anti-Diabetic Drugs & Hormones	chap 22 chap 22 chap 20

**TENTATIVE SCHEDULE OF TOPICS
(continued)**

WEEK	DAY	DATE	LECTURE TOPIC	TEXT
4	M	JULY 7	Emergency Drugs Sedative-Antianxiety Drugs Antidepressants Anticonvulsants Corticosteroids Non-Narcotic Analgesics & NSAIDs	chap 23 chap 11 chap 17 chap 17 chap 19 chap 6
	W	JULY 9	<u>EXAMINATION 2</u> Narcotic Analgesics	chap 7
5	M	JULY 14	Local Anesthetics Anti-Infective Agents (Antiseptics) Antibiotics	chap 10 chap 8
	W	JULY 16	Antibiotics Antifungal & Antiviral Agents Oral Conditions & their Treatment	chap 8 chap 9 chap 14
6	M	JULY 21	Hormones Antineoplastic Drugs Nitrous Oxide: Conscious Sedation	chap 20 chap 21 chap 12
	W	JULY 23	<u>FINAL EXAM</u>	