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Fall 9-1-2005

PHA 102T.01: Pharmacology

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THE UNIVERSITY OF MONTANA MISSOULA
COLLEGE OF TECHNOLOGY
HEALTH PROFESSIONS DEPARTMENT

Course Syllabus
PHA 102T – Pharmacology

Date revised: 08/26/05

Semester Credits: 6

Contact hours per semester: 6 lecture hours per week

Class Schedule: MWF 8:10-10:00 Room: AD08

Prerequisites: Enrollment in the Pharmacy Technology Program, and successful completion of the following courses: COM115, CRT101, MAT100, SCN119N, MED154T.

Instructor: Lisa Wrobel, Pharm.D., R.Ph.

E-mail address: lisa.wrobel@umontana.edu **Phone number:** 243-7813

Office: AD04B **Office hours:** MWF 10:15-11:15 or by appointment

Required text:

Pharmacy Technician – Principles and Practice (Hopper)

Lexi-Comp Drug Information Handbook

Relationship to program:

Pharmacy technicians must be familiar with the generic and brand names of drugs so that they are able to locate and dispense drugs efficiently and correctly in the pharmacy. They must know the classifications and general properties of the various classes of drugs to aid in the correct dispensing of prescriptions, and also to avoid mistakes such as duplications of therapy or interactions. Proper dispensing and labeling of drug products requires a knowledge base that will enable the technician to be of optimal assistance to the pharmacist. This base will enable the technician to communicate with the pharmacist, other health professionals, and with clientele in a knowledgeable manner. This course will build upon the information and skills obtained in the prerequisite classes, and will give the student a basic introduction to the complex world of medicinal agents. It will also coordinate with PHA 103, Community and Institutional Pharmacy Practice, as the students will be dispensing drugs in lab that are from the classifications they are studying in Pharmacology.

Course description: Study of the properties, reactions, and therapeutic value of the primary agents in the major drug classes.

Student performance outcomes:

Upon completion of this course, the student will:

1. Be familiar with the names, classifications, characteristics and uses of the most commonly used drugs in both community and hospital settings. The "Top 200" drug list will be used to help students memorize brand and generic names.
2. Become proficient at finding information on drug products from reference materials and via computer. If there is a question or a potential problem with a prescription order, the student should be able to locate information quickly and efficiently.
3. Have a "knowledge base" of commonly used drugs used to treat conditions of the skin, autonomic nervous system, urinary tract, gastrointestinal tract, eye, musculoskeletal system, reproductive system, cardiovascular system, and respiratory system.

4. Have basic knowledge of vitamins and minerals; drugs used to treat cancer, drugs used to treat infection; drugs used for analgesia, sedation and insomnia; drugs used as anticonvulsants; drugs used for Parkinson's disease; endocrine system drugs; drugs and other treatment for diabetes; psychotropic drugs; alcohol and drug abuse issues; tobacco and smoking cessation products; preoperative drugs; local anesthetics; special considerations for geriatric and pediatric populations; and drugs used for HIV/AIDS.

5. Display a working knowledge of drug dosages, drug forms, routes of administration, side-effects, adverse reactions, and indications in order to fulfill their role in helping to provide safe, appropriate drug therapy and to lessen the chance of medication errors.

STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:

The grading scale is as follows:

90-100	A
80-89	B
70-79	C
60-69	D
below 60	F

80% of grade will be the average of test grades, including the final. There will be a test after completion of each "unit" (see course outline) Test dates will be announced at least two class periods before each upcoming test. Tests must not be missed. If an unavoidable circumstance arises, please let me know ASAP. I may ask for written verification of your excuse (e.g. note from physician) if you ask to make-up a test.

20% of grade will be assignments. Assignments must be turned in on-time! If an assignment is not turned in on-time, I will automatically deduct 25% of the total points possible for every day it is late. If you do the math, on day 4 after the assignment is due, you will get a "0" on the assignment. If there is a legitimate reason why an assignment is not turned, talk to me and an exception might be made.

Students in the Pharmacy Technician program must have a "B" or better final grade in each pharmacy class (those starting with PHA) to progress within their programs. A "C" or better is required for all non-pharmacy classes.

Tests must not be missed. If you have a legitimate reason for missing the test, let me know ASAP. If I feel your excuse is legitimate, a test will be issued to you at the ASC center to be taken. The ASC center has limited hours about which the student is expected to be informed.

Students must have access to an internet-capable computer and have the ability to open e-mail and attachments in Microsoft Word. It is the students' responsibility to have this access in place prior to beginning the course.

Students with disabilities: eligible students with disabilities will receive appropriate accommodations in this course provided it is requested in a timely manner. If you are a student with disabilities, please speak with me and be prepared to provide a letter from your DSS coordinator.

Cell phones: please make sure they are turned off during clas

Academic dishonesty: Students found guilty of cheating *or helping others to cheat* will be given an F as their final grade in the course without exception. No second chances will be allowed due to the significance of such dishonest behavior in a health oriented profession, and the possible dire consequences such dishonest behavior could on the public, the profession of pharmacy, and our school, if allowed to continue.

COURSE OUTLINE: Subject to change!!

Unit 1

Principles of Drug Action - Pharmacokinetics

Unit 2

OTC and Alternative Medications

Unit 3

Overview of the Central Nervous System; Analgesics

Unit 4

Antianxiety, Sedative and Hypnotic Drugs, Anticonvulsants

Unit 5

Central Nervous System Stimulants, Psychotherapeutic Drugs

Unit 6

Overview of the Cardiovascular System; Cardiac Glycosides, Antidysrhythmics, Antihypertensives, Vasodilators and Antithrombotic Agents

Unit 7

Overview of the Blood; Anticoagulants, Antihyperlipidemic Drugs.
Vaccinations

Unit 8

Overview of the Respiratory System; Drugs used for COPD
Overview of the Gastrointestinal Tract; Drugs Affecting the Gastrointestinal Tract

Unit 9

Overview of the Eye and Ophthalmic Drugs; Overview of the Ear and Auditory Drugs
Antidiabetics.

Unit 10

Overview of Male and Female Reproductive Systems; Drugs Affecting the Female Reproductive System; Drugs Affecting the Male Reproductive System; Drugs Affecting Sexual Behavior

Unit 11

Overview of Infections, Inflammation and Fever; Antibiotics; Antifungal and Antiviral Drugs; Other Antimicrobial Drugs and Antiparasitic Drugs

Unit 12

Vitamins and Minerals; Fluids and Electrolytes

Final Exam: Wednesday, December 13, 3:20-5:20