Fall 9-1-2006

**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: 08/22/06  
Semester Credits: 6  
Contact hours per semester: [For administrative purposes only]  
Lecture hours per week: 6  
Lab hours per week: 0  
Clinical/internship hours per week: 0  
Meeting Schedule: MWF 8:10-10:00  
Room: AD08

Instructor: Mary McHugh, R.Ph.  
E-mail: mary.mchugh@umontana.edu  
Phone: (406) 243-7813  
Office: AD04B, (Administration building)  
Office hours: MWF 11:10 to 1:30  
T Th 12:10 to 1:30

Required texts: 1) Pharmacology for Technicians (3rd edition) by Ballington/Laughlin  
2) Lexi-Comp Drug Information Handbook

Prerequisites: Enrollment in the Pharmacy Technician Program and successful completion of  
the following courses: WTS100S or 115S, CRT100, MAT100, SCN119N, MED154T.

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 skills obtained in concurrent courses, giving the student a basic introduction to the complex world of medicinal agents. 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. Be familiar with brand/generic names of the most commonly prescribed drugs.

2. Be 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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>below 60</td>
<td>F</td>
</tr>
</tbody>
</table>

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.

Course grades will be based on the following:
80% of grade will be the average of test grades, including the final.
20% of grade will be assignments.

Tests: There will be a test after completion of each “unit” (see course outline). Test dates are tentative and subject to change. 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, you may take a make-up exam at the ASC center. The student is responsible for calling the ASC center to reserve a make-up test time. At least 48-hours advance notice is required.

Assignment policy: Assignments must be turned in on-time... NO EXCEPTIONS!

Internet Access: Students must have access to the internet (computer access available on campus). Many notes and assignments must be accessed through Blackboard On-Line Learning. E-mails regarding information about this course will be sent to the students University of Montana e-mail address. Please be familiar with this e-mail system and check it regularly.

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.

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.

COURSE OUTLINE: Subject to change!!

Unit 1 – Introduction to Pharmacology:
Chapters 1-3 (Note: Some of this material will be covered in PHA100 and may be skipped)
Unit One Test: Friday, Sept. 8 (tentative)

Unit 2 – Anti-Infectives:
Chapters 4 & 5
Unit Two Test: Friday, Sept. 22 (tentative)

Unit 3 – Narcotic Pain Relievers, Neurologicals, and Psychiatric Drugs:
Chapters 6, 7, and 8
Unit Three Test: Wednesday, Oct. 11 (tentative)

Unit 4 – Respiratory, GI, Renal and Cardiac Drugs:
Chapters 9, 10, 11, and 12
Unit Four Test: Monday, Oct. 30 (tentative)

Unit 5 – Muscle Relaxants, Non-Narcotic Analgesics, Hormones and Topicals:
Chapters 13, 14, and 15
Unit Five Test: Friday, Nov. 17 (tentative)

Unit 6 – Chemotherapy and Nutritional and Alternative Substances:
Chapters 16 & 17
Unit Six Test: Friday, Dec. 6 (tentative)

Final Exam: During the week of December 11th, exact date TBA.