

PHM 338: INTRODUCTION TO PHARMACOLOGY

Wednesday and Thursday 9:00 - 10:30 a.m.

Room: NUR 1.112

Spring 2017 – Unique #59490

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| Course Director: | James Karboski, PharmD |
| Contact: | Telephone: (512) 232-2628 E-mail: karboski@austin.utexas.edu |

Description:

Through this course students will gain an understanding of how medications work, the appropriate use of medications and how to monitor medication use to insure maximum safety and efficacy.

Goal:

The goal of Introduction to Pharmacology is to assure that students obtain a thorough comprehension of the basic pharmacological principles necessary for the care of their patients.

Objectives:

At the end of this course, each student should be able to:

1. Demonstrate an understanding of the terminology used to describe basic pharmacologic principles and drug classification.
2. Describe the basic pharmacokinetic principles governing uptake, distribution, metabolism and elimination of drugs and apply these principles in the therapeutic management of patients.
3. Describe and explain pharmacodynamic concepts of drug-receptor interaction.
4. Demonstrate an understanding of the basic mechanisms of drug-induced toxicity and drug interactions and develop appropriate approaches to their management.
5. Describe selected major drug classifications based upon both drug actions and use in specific illnesses and diseases.
6. Describe the mechanism of action, indications, adverse drug reactions, appropriate dose range and uses for the medications discussed in class.
7. Describe the rules and laws that govern drug distribution.

Prerequisites:

Credit or registration for:

Biology 365S, 416K, or 446L

Kinesiology 324K

Biomedical Engineering 365R or 365S

Required Materials:

1. iClicker
2. Copies of lecture slides will be available from the course Canvas website (<http://canvas.utexas.edu>). It is highly recommended that all students bring these notes with them to class to significantly cut down on the amount of note taking. Instructors will assume that you have these notes and will pace their lectures accordingly. You can find support in using Canvas at the ITS Help Desk at 475-9400, Monday-Friday 8AM – 6PM.

Optional Material:

Pharmacology: Connections to Nursing Practice, 3rd Edition – Adams & Urban

Classroom Conduct:

It is your responsibility to attend class and conduct yourself in a manner respectful to both faculty and fellow students in the classroom. If you miss a class for any reason, you will be held responsible for all material covered and announcements made in your absence. It is your responsibility to be on time and remain for the entire class period so as not to be inconsiderate of your colleagues in learning.

Redistribution of Class Recordings:

I will attempt to audio record lectures this semester. These recordings are made available by the University of Texas, and are intended solely for the purpose of review by students currently enrolled in this class. Students utilizing class recordings should be careful to not compromise the privacy of either themselves or other users (<http://registrar.utexas.edu/students/records/ferpa>). Students are free to make their own recordings of lectures in this course. Any additional distribution of University- or student-generated recordings (regardless of format) is prohibited without the written and signed permission of the presenter and all students identifiable on the recording.

Please remember that this service is offered to supplement (not replace) lecture attendance. An issue might arise that could prevent material from being made available in a timely fashion or at all. Although every effort will be taken to keep the system running, UT does not guarantee the availability of these recordings. Attending class is the only way to insure your viewing of the professor's presentation.

Assessment:

iClicker-based quizzes will be administered throughout the semester. The time and frequency of the quizzes will be at the discretion of the instructor. It is each student's responsibility to procure and setup iClicker for use in the course. Technical support is offered by the ITS help desk located in the Flawn Academic Center (FAC) or by phone at 475-9400.

There will be no make-up quizzes offered. The lowest quiz score will be dropped from grade calculations. Using another student's iClicker to take a quiz is considered academic dishonesty and will be reported to the Dean of Students.

The first three examinations will be administered at the regularly scheduled class time in the regular lecture room. The comprehensive final exam will be administered at the date/time/place listed in the official UT Final Examination Guide.

Students must arrive on time for examinations. All instructions and corrections will be made at the beginning of the examination period and will not be repeated. Students arriving after a test has been handed in by another student will not be allowed to sit for the examination and will receive a score of zero for the exam.

The only items allowed during examinations are pencils and a calculator (if needed). Books, bags, and coats will need to be left in a location designated by the faculty proctor. No student may possess a cell phone, digital music player or any other type of electronic device during the

exam. Students caught with any of these devices will be reported to the Dean of Students and may receive a score of zero on the exam.

Absences on test days must be approved by the Course Director prior to the scheduled test. Requests must be in writing and delivered to Dr. Karboski. If permission is granted by telephone at the last minute (e.g. due to illness), it is the student's responsibility to confirm the request in writing as soon as possible. If permission is given to miss any of the first three tests, the weighting of the comprehensive portion of the final exam will be increased proportionally. **No make-up test will be given for any reason for any of the first three exams scheduled during the course.** An unexcused absence from a test may result in a grade of "0" for that test. Please do not request a "special" exception such as taking a test either early or late.

All students must take the final examination. A student who must miss the final examination for an approved reason will receive an incomplete for the course and must make up the final exam at the time and place designated by the instructor. A student who misses the final exam without an approved excuse will receive a grade of F for the semester.

The Course Coordinator will retain all examinations. Any student who removes an examination from the testing room may receive a score of 0 for the exam. Students will be provided an opportunity to view their scantron in order to verify answers with the posted key.

Answers to multiple choice questions are based on the scantron sheets and not answers written on the test papers. All tests are taken to the Scanning Office for grading. After the tests have been graded and an item analysis is performed, questions may be discarded at the discretion of the Course Coordinator.

Examinations:

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|---------------------|------------|
| iClicker Quizzes | 15% |
| Examination #1 | 20% |
| Examination #2 | 20% |
| Examination #3 | 20% |
| Comprehensive Final | <u>25%</u> |
| | 100% |

Posting Class Scores:

Following each examination, the scores will be posted on the password-protected course Canvas website.

Grading Policy:

| | | | |
|----|----------|----|-----------|
| A | 93 -100% | C | 73 - 76% |
| A- | 90 -92% | C- | 70 - 72% |
| B+ | 87 -89% | D+ | 67 - 69% |
| B | 83 -86% | D | 63 - 66% |
| B- | 80 -82% | D- | 60 - 62% |
| C+ | 77 -79% | F | Below 60% |

A curve may be used in assigning grades in this class at the discretion of the Course Coordinator. No test scores are "dropped" and no "re-takes" will be offered for poor performance.

Resources for Learning & Life at UT Austin

The University of Texas has numerous resources for students to provide assistance and support for your learning:

- The UT Learning Center: www.utexas.edu/student/utlc/
- Counseling & Mental Health Center: <http://cmhc.utexas.edu/>
- Career Exploration Center: www.utexas.edu/student/careercenter/
- Student Emergency Services: <http://deanofstudents.utexas.edu/emergency/>

Use of Personal Electronics

Laptop computer use during class is strictly limited to viewing lecture handouts and taking notes. Cell phones must be put away during class. We will have a break about half way through the lecture and this time may be used to catch up on texts and e-mail. Any other use of personal electronics without instructor approval will result in referral to the Dean's Office for unprofessional behavior.

University of Texas Honor Code

The core values of The University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the university is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community.

Students with Disabilities:

Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities at 471-6259 (voice), 232-2937 (video phone) or <http://www.utexas.edu/diversity/ddce/ssd/>

Use of E-Mail for Official Correspondence to Students

I will use e-mail for official course announcements. You are required to check the e-mail account officially listed with the University on a regular basis, but no less than every day during the semester. You are responsible to keep the university informed about changes to your e-mail address.

Religious Holy Days

By UT Austin policy, you must notify me of your pending absence at least fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, I will give you an opportunity to complete the missed work within a reasonable time after the absence.

Behavior Concerns Advice Line (BCAL)

If you are worried about someone who is acting differently, you may use the Behavior Concerns Advice Line to discuss by phone your concerns about another individual's behavior. This service is provided through a partnership among the Office of the Dean of Students, the Counseling and Mental Health Center (CMHC), the Employee Assistance Program (EAP), and The University of Texas Police Department (UTPD). Call 512-232-5050 or visit www.utexas.edu/safety/bcal/

Emergency Evacuation Policy

- Occupants of buildings on the UT Austin campus are required to evacuate and assemble outside when a fire alarm is activated or an announcement is made. Please be aware of the following policies regarding evacuation: Familiarize yourself with all exit doors of the classroom and the building. Remember that the nearest exit door may not be the one you used when you entered the building.
- If you require assistance to evacuate, inform me in writing during the first week of class. In the event of an evacuation, follow my instructions or those of class instructors. Do not re-enter a building unless you're given instructions by the Austin Fire Department, the UT Police Department, or the Fire Prevention Services office.

Campus Concealed Handgun Policy (Campus Carry)

Students should familiarize themselves with the information provided by the University regarding the implementation of "Campus Carry" legislation. You will find an information sheet specifically for students (as well as sheets for parents, visitors, faculty, and staff) at <http://campuscarry.utexas.edu/info-sheets>

During examinations, back-packs and other bags will be stored away from the students.

Q Drop Policy

Texas law limits the number of course drops for academic reasons to six. Senate Bill 1231 says: "Beginning with the fall 2007 academic term, an institution of higher education may not permit an undergraduate student a total of more than six dropped courses, including any course a transfer student has dropped at another institution of higher education, unless the student shows good cause for dropping more than that number."

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| Date | | Topic/Activity |
|-------------|----|-------------------------------------|
| January | 18 | Fundamentals |
| | 19 | Basic Pharmacology |
| | 25 | Basic Pharmacology |
| | 26 | Drug Interactions |
| February | 1 | Renal Function and Diuretics |
| | 2 | Upper Gastrointestinal |
| | 8 | Lower Gastrointestinal |
| | 9 | Contraception |
| | 15 | EXAM 1 |
| | 16 | Analgesics |
| | 22 | Depression |
| | 23 | Anxiolytics and Sedatives |
| March | 1 | Antipsychotics |
| | 2 | Diabetes Mellitus |
| | 8 | Diabetes Mellitus |
| | 9 | Thyroid |
| | 15 | SPRING BREAK |
| | 16 | SPRING BREAK |
| | 22 | Asthma |
| | 23 | Hyperlipidemia |
| | 29 | EXAM 2 |
| | 30 | Hypertension |
| April | 5 | Hypertension |
| | 6 | Blood/Anticoagulation/Antiplatelets |
| | 12 | Antibiotic Classification |
| | 13 | Antibiotic Classification |
| | 19 | Antifungals and Parasites |
| | 20 | Tuberculosis and Antivirals |
| | 26 | Osteoporosis |
| | 27 | Seizure Disorders |
| May | 3 | TBD |
| | 4 | EXAM 3 |
| May 10-16 | | FINAL EXAM |