

**The University of Texas at El Paso School of Nursing
N2407 – Pharmacology for Nursing
Summer 2017**

COURSE DESCRIPTION/COURSE OVERVIEW: This course provides an introduction to the principles of pharmacology, including: pharmacokinetics, pharmacodynamics, pharmacotherapeutics, potential adverse medication reactions and interactions. Emphasis is placed on drug classifications and nursing implications related to the safe administration of medication to patients across the life span. Performing dosage calculations using varied methods are introduced.

COURSE PRE-REQUISITES: Admission into pre-requisites of nursing program classes. It is strongly recommended that students are also simultaneously enrolled in N2407 Pathophysiology.

FACULTY INFORMATION:

- Shalla Copeland MSN, RN
- School of Nursing Building Office: 322
- Phone: (915) 747-7255
- Email: smcopeland@utep.edu. When the course starts - email through the Blackboard course email
- Office Hours: Wednesdays 1000 to 1500 or by appointment
- Contact me via email at anytime, but please allow for at least a 24-hour response time.

REQUIRED TEXTBOOK:

Workman, M.L. & LaCharity, L. (2016). *Understanding pharmacology: Essentials for medication safety (2nd ed.)*. St. Louis: Elsevier. ISBN: 978-1-4557-3976-9.

Sienkiewicz, S. & Palmunen, J. (2017). *Clinical nursing calculations*. Burlington, MA: Jones & Bartlett. ISBN: 978-1-284-05752-2

RECOMMENDED RESOURCE:

Workman, M.L. & LaCharity, L. (2016). *Study guide for understanding pharmacology: Essentials for medication safety (2nd ed.)*. St. Louis: Elsevier. ISBN: 978-0-3233-9494-9

COURSE OBJECTIVES:

Upon completion of this course, the learner should be able to:

1. Apply principles of pharmacology, pharmacokinetics, pharmacotherapeutics, and pharmacodynamics to medication therapy.
2. Recognize the major classifications of medications, common medications within each classification, their side effects, and contraindications.
3. Discuss nursing implications and concepts of safety, when performing drug calculations and medication administration.
4. Understand the legal and ethical implications/aspects of medication administration.

TEACHING METHODOLOGIES: Please see Blackboard for Course Calendar and Assignments

Teaching will include any of the following:

- PowerPoint Presentations
- Interactive Class Activities
- Lectures
- Class Discussions
- Case Studies
- Quizzes
- Course Content Exams and a Comprehensive Final Exam

GRADING POLICY AND STRUCTURE:

Students must pass this course at a minimum of 75%. Per the School of Nursing policy, achieving less than 75% in the didactic portion of the course results in a course failure. **There is no rounding of grades and fractional points will be dropped. There are no extra credit assignments.**

GRADING BREAKDOWN:

Exam I	16%
Exam II	16%
Exam III	16%
Exam IV	16%
Final Exam	20%
Quizzes	16%
	100%

GRADING SCALE:

90-100	= A
80-89	= B
75-79	= C
60-74	= D
<60	= F

COURSE POLICIES:

Review **Academic Regulations in UT El Paso Undergraduate Studies Catalog** and the School of Nursing Undergraduate Nursing Student Handbook for the following policies: *Statement on Disability, Student Injury, Class Attendance, Religious Observance, and Policy on Academic Integrity.*

Attendance

- Students are expected to attend all classes and to arrive on time. Students arriving late are asked to enter quietly and unobtrusively. Students are responsible for content and announcements presented in class whether present or not.

Blackboard Access

- Students are required to subscribe to and **frequently access the course Blackboard site**. This site is the main source of communication between faculty and students. Students are encouraged to access this site on a daily basis for e-mail and course announcements. The course syllabus, calendar, assigned readings, and assignment criteria are also posted on this site. Grades will be made available **ONLY** through this site. Course communication during the semester will occur only through the Blackboard course email.

Communication

- Communication is the responsibility of both students and faculty. Faculty will keep students informed of progress and students will inform faculty of any deterrent to their success.

Professional Behavior

- Students are expected to behave professionally *at all times* with faculty and peers in any setting in which the student is a representative of UTEP. Bullying, verbal abuse, insubordination, or personal attacks will not be tolerated in any form. Any behavior deemed inappropriate by faculty will result in faculty conference(s), and completion of a SOS plan that addresses the student's areas of needed improvement. Possible activities available to assist the student in attaining the SOS objectives include stress and/or anger management counseling sessions. Any behavior that is disruptive to the classroom may result in removal from the class and/or an administrative withdrawal from the course and/or dismissal from the program.

Retention: Students Opting for Success (SOS)

- When a student is not progressing in the course as expected or is not successful on an examination, they are strongly recommended to meet with the instructor to discuss recommended strategies for success.

Policy on Scholastic Dishonesty

- Students are expected to be above reproach in all scholastic activities. Students who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the School of Nursing and/or university. Scholastic dishonesty includes but is not limited to reproducing test or quiz materials from memory, copy/paste or Xerox, cheating, plagiarism, collusion, the submission for credit or any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give unfair advantage to a student or the attempt to commit such acts. Regents' Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22.
- Since scholastic dishonesty harms the individual, all students, and the integrity of the School of Nursing and the university, policies on scholastic dishonesty will be strictly enforced. See detailed procedure in the Handbook of Operating Procedures (HOP) available in the Office of the Dean of Students.

Policy relating to Disability / Pregnancy:

- **Disability:** Nursing is a physically and mentally challenging profession. Nurses are required to think critically and quickly in order to respond to patient care needs. Nurses are also expected to be able to assist patients in transfer, ambulation and in activities of daily living. In order to do this, nurses must be able to lift, bend and be on their feet for extended periods of time. Nursing students are expected to be able to perform these functions. It is therefore the responsibility of the student to inform the course manager of any limitations they may have in completing course expectations. Nursing students with limitations in any of the above abilities are advised to discuss these matters with The Center for Accommodations and Support Services (CASS) to determine if reasonable accommodations could be provided. Written guidelines r/t accommodations from CASS must be submitted to the course manager PRIOR to the start of the course. If you have a disability and need classroom accommodations, please contact CASS at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.
- **Pregnancy:** It is the responsibility of the student to inform the instructor of pregnancy limitations. Written guidelines r/t accommodations from The Center for Accommodations and Support Services (CASS) must be submitted to the course manager PRIOR to the start of the course.

Grievances

- Challenges to grades may be pursued only on *the basis of malice, bias, arbitrary or capricious grade determination or impermissible discrimination*. In no event shall a challenge be pursued only on the basis of the standards employed in setting grades, so long as those standards are employed impartially. Students must attempt to resolve issues relating to grades through the following chain of command:

First, with the Course Manager who issued the grade;

Second, with the Assistant Dean for Undergraduate Education;

Third, with the Dean of Nursing

Formal grievances MUST be in WRITING and filed through the faculty member, the SON Assistant Dean for Undergraduate Education and the Dean of the SON. Having failed to resolve the matter after consultation with the above persons, the student may consult with and/or file a challenge with the Chairperson of the University Student Welfare and Grievance Committee.

Laptops

Use of laptops during class is permitted. If you do use a laptop during class:

- Set your laptop volume control to mute or off before coming to class.
- Do not engage in unauthorized communication or entertainment (web surfing, instant messaging, chat room chatting, DVD viewing, music playing, game playing, etc.) during class unless it is part of the lesson. Such unauthorized use will result in student removal from class that day and possible loss of laptop use for the entire class.

Cell Phones

- Set your phone to mute or silent mode before coming to class.
- Cell phones will not be allowed for any use in class (no phone calls, texts, web browsing). Any student with a visible phone in possession during class times will be asked to leave the class and will receive an unexcused absence for that day with all quizzes and/or assignments for that day recorded as a zero.

Audio Recording

- Audio recording of any class information is at the discretion of the faculty. No videotaping is permitted.

Student Responsibility.

- Students are responsible for all assigned reading and lecture content. Preparation for class and participation in class will optimize the student's ability to succeed in the course. **Students should read assigned materials prior to lecture in order to be prepared for class.**

Quizzes

- Quizzes may be given at the start of class, during class or at the end of class. Quizzes may be given in paper/pencil format or on Blackboard. Quizzes will be given throughout the semester unannounced during scheduled class time. **THERE IS NO MAKE-UP FOR QUIZZES FOR ANY REASON.**
- If a quiz or exam is missed, student will not be allowed to attend another course section to make-up that grade. Due to the limited number of seats in each classroom, students must attend assigned class for which he/she registered unless prior arrangements were made and confirmed with the course manager.
- The lowest quiz grade will be dropped at the end of the semester with the exception of the dosage calculation quiz as long as the student has participated in class throughout the semester with their audience response card. Students that choose not to participate in class with their audience response card will **NOT** have a quiz dropped from their final quiz average.
- The Dosage Calculation quiz must be passed with a minimum score of a 90 (School of Nursing Policy). If the quiz is not passed, remediation will be required prior to the deadline identified by faculty. **Failure to complete this remediation will result in an "incomplete" for the course.**

Examinations

- Examinations are scheduled during the semester and a cumulative final exam is scheduled at the end of the semester. The questions are derived from lecture objectives and course content presented during lecture as well as reading assignments from the textbook.
- All students are expected to take the examinations at the scheduled time. Make-up exams are rarely given and then **ONLY** when there is a very valid reason (with appropriate documentation) and the course manager has been contacted **PRIOR** to class time. Failure to do so will result in receiving a zero (0) for the exam. Make-up exams will be different than exams given in class to include fill in the blank and essay questions.

- All cell phones must be turned off during exams and left at front of classroom. Items at individual desks are limited to pencils and calculators. **No one may leave the room during an exam.**
- Drug cards that were created by the student may be utilized during exams only if faculty instructions have been strictly followed. Drug cards that do not meet faculty approval will not be allowed during exams. Drug cards are not permitted though for the final exam.
- Unit exams and the Final Exam are timed. Students will be allowed to write on the exams but it is only the answers on the scantron that will be scored for the examination grade. Failure to fill in appropriate information on the scantron will result in zero credit for the exam responses. No extra time will be given to complete the scantron once the timed period is over.
- Student copies of the exams will not be allowed outside of the classroom at any time. Test items are the property of the faculty, and thus the university; writing down specific test items or answers is NOT permitted.
- Students may review the exam key (exams 1-4) with their scantron the following week. Specific times will be determined by the course manager. **Each exam may be reviewed only up until the prior week of the next exam. Exams 1-4 may not be used as study guides for the Final Exam. The Final Exam will not be available for review.**

STUDENT RESOURCES:

UTEP Technology Support Center: The Technology Support Center (TSC) offers UTEP students access to state of the art computing equipment and specialized software for academic needs. The TSC is also home to the PC Clinic, which offers computer software repair services to students at no cost. The center is located in the library, room 300 (747-5257).

MaRCS Center: (Math Resources Center for Students). The MaRCS tutoring center provides walk-in, face-to-face tutoring for all undergraduate mathematics courses. This is a free service for all UTEP students. The tutors are undergraduate and graduate students who have mastered the content areas they help students with. Located in the library, room 218 (747-5366) or at <http://math.utep.edu/marcs/>

Student Health Center: UTEP Student Health Center is here to meet the health care needs of all students so they can focus on their studies. As a student you have paid a medical service fee that allows you to be seen at the clinic as often as needed. Office visits are low cost as well as medications, supplies and any needed lab tests (747-5624).

University Counseling Center: The UTEP University Counseling Center located at 202 Union West can assist you to decide on a career or work through personal concerns. They provide confidential counseling services, assist with stress management, and offer an after-hours crisis support line (747-5302)

Topical Outline

General Aspects of Pharmacology

- Drug Regulation, Actions, and Responses
- Safely Preparing and Giving Drugs

Mathematics in Pharmacology and Dosage Calculation

- Mathematics Review and Introduction to Methods of Dosage Calculation
- Medical Systems of Weights and Measures
- Dosage Calculation and Intravenous Solutions and Drugs
- Medication Orders and Interpretation of Medication Labels
- Dosage Calculation for Enteral Medications, Parenteral Medications, Infusion Therapy, and Special Populations

Anti-Inflammatory Drugs

Drugs for Pain Control

Anti-Infectives: Antibacterial Drugs

Anti-Infectives: Antiviral drugs

Anti-Infectives: Antitubercular and Antifungal Drugs

Anticancer Drugs

Drug Therapy for Diabetes

Drug Therapy for Thyroid and Adrenal Gland Problems

Drugs that Affect Urine Output

Drug Therapy for Hypertension

Drug Therapy for Heart Failure

Drug Therapy for High Blood Lipids

Drugs that Affect Blood Clotting

Drug Therapy for Asthma and Other Respiratory Problems

Drug Therapy for Gastrointestinal Problems

Drug Therapy for Gastric Ulcers and Reflux

Drug Therapy with Nutritional Supplements

Drug Therapy for Seizures

Drug Therapy for Alzheimer's and Parkinson's Diseases

Drug Therapy for Psychiatric Problems

Drug Therapy for Insomnia

Drug Therapy for Eye Problems

Drug Therapy for Osteoporosis, Arthritis, and Skeletal Muscle Relaxation

Drug Therapy for Male Reproductive Problems

Drug Therapy for Female Reproductive Issues

See separate course calendar for specific dates for reading assignments and due dates for quizzes and exams.