COURSE SYLLABUS
AND
INSTRUCTOR PLAN

Pharmacology for Health Professions
HPRS 2300

Tiffany Marty MSN, RN
**Course Description:**
A study of drug classifications, actions, therapeutic uses, adverse effects, methods of administration, client education, and calculation of dosages.

This course provides a framework to understand medications and their administration. Part I is a basic but comprehensive review of pharmacologic principles, introducing students to the subject of drugs, their sources, and their uses. Drug calculations are simplified into two step-by-step processes so students become familiar with the steps in calculating dosages. Students study medication preparation, supplies, and specific information on each route of administration through textual and video components.

In Part II, students examine drug classifications through descriptions and characteristics of common drugs, their purposes, side effects, precautions or contraindications, side effects, and interactions. Patient education is highlighted for each classification of drugs to bring awareness to students of the importance for all health care professionals to instruct patients and answer their questions about the medications they are taking. Semester Hours 3 (3 lec)

**Prerequisites and/or Corequisites:**
Prerequisite: a course in anatomy and physiology or medical terminology or consent of division director.

**Course Notes and Instructor Recommendations:**
**COMPUTER RESOURCE AT MCC:**
Students may use computers located in the Library, located on the third floor of the Learning Technology Center. Computers are also available in open computer labs in various areas on campus.

**OFF-CAMPUS COMPUTER REQUIREMENTS:**
The link for the Microsoft Viewers for Word that is used in this course is: [http://www.microsoft.com/office/000/viewers.asp](http://www.microsoft.com/office/000/viewers.asp)
IBM-compatible Intel Pentium II or higher computer system; minimum 128 MB of RAM; 200 MB of available hard disk space; minimum 56K modem; CD ROM-drive and Internet Explorer 5.5 or higher. Students will not need a PowerPoint viewer for this course. The AOL Internet browsers are not supported for MCC Blackboard or e-mail access.

**FREE BLACKBOARD SUPPORT SITE:**
Login at: [http://ecampus.mclennan.edu/](http://ecampus.mclennan.edu/) Click on the navigation buttons on the left to study the material. Start with Bb Orientation.
Another resource for students is the HELP line for technical assistance: 254-299-8077. After 5:00 PM and on weekends call 717-6349.
A backup will be made of Blackboard every morning from 5:00 AM to 5:30 AM. Therefore, do not attempt to use the Blackboard program during that time period.

COMPUTER FAILURE WHEN TAKING A QUIZ: In cases of a computer failure while taking a Quiz, the student is to contact the instructor by email tmarty@mclennan.edu and decision will be made whether the Quiz will be reset. Quizzes will be reset only once, and if the problem continues, students will have to take Quizzes on campus. Any problem should not occur when students follow instructions and know how to take the Quiz before one is attempted. STUDENTS ARE TO USE FIREFOX WHEN TAKING QUIZZES. How to access Firefox: Go to www.getfirefox.com. Click on Firefox Free Download. Then, follow the instructions on the screen. Be sure to have your pop-up blocker turned off so that you can get the Firefox setup popup.

**Instructor Information:**
Instructor Name: Tiffany Marty
MCC E-mail: bmoore@mclennan.edu
Office Phone Number: 254-223-2824
Office Location: HPN 114
Office/Teacher Conference Hours: by appointment only
Other Instruction Information: online instructor only for summer

**Required Text & Materials:**

Title: *Essentials of Pharmacology for Health Professions* (with MindTap computer access code)
Author: Ruth Woodrow; Bruce J. Colbert; David M. Smith
Edition: 7th
Publisher: Cengage Publishing
Click Here for the Minimum System Requirements to Utilize MCC’s Blackboard
(www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements)
Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC’s Blackboard learning management system.

Methods of Teaching and Learning:
Online format, assignments, exams, textbook, email; audio recordings are permitted. Pay attention to when assignments and activities are due. Also, you may only submit the assignment only ONCE for a grade. You may use your textbook but you must submit the assignment ONE TIME ONLY. If you forget, the time in the computer that records your first try is the grade that will be recorded in the grade-book. There may be one word or a phrase as the answer to a question. Fill in the blank with the most correct answer that makes grammatical sense. Pay attention to spelling and the use of dashes and slashes for the word parts. Complete each assignment and activity and be sure to use the audio pronunciation guide as you work through each lesson. Send me an email at tmarty@mclennan.edu if you need any help.

If anyone in this class has a diagnosed disability or requires accommodations, I would appreciate hearing from you so we may work together for a successful completion of the course. Please schedule an appointment with me and be sure to follow the instructions in your syllabus to complete Disability Services requirements.

Course Objectives and/or Competencies:
After completing Part I of this course, learners should be able to:

• Summarize major drug standards and legislation, and discuss the legal responsibilities of the health care practitioner when dispensing medications.
• Describe the major drug classification systems, and differentiate among the various types of drug names with examples.
• Evaluate the standard and online pharmacological references in use today.
• Classify the sources of drugs, examine their pharmacokinetic processes, and analyze the variables that affect drug actions and effects.
• Compare and contrast various drug forms, routes of delivery, and the supplies and techniques necessary for safe and appropriate administration.
• Interpret medication orders correctly, and state the proper procedures for documenting drug administration and for reporting medication errors.
• Calculate and convert between dosages for a range of group using the three systems of measurements and propose strategies to reduce medication errors.
• Apply the principles that support the moral, ethical, and legal responsibilities of the health care practitioner in administrating medications safely and accurately.
• Outline the advantages and disadvantages of various gastrointestinal routes of administration, and determine the most appropriate method of administration and dosage for specific circumstances.
• Distinguish among the four parenteral routes and demonstrate the application of each, including specific injection types and sites.
• Propose special precautions that should be taken when administrating medications for various demographics, and in particular, for older adults.
• Identify the primary routes of poisoning and explain the procedures, therapies, and preventive measures involved in patient care and education.

After completing Part II of this course, learners should be able to demonstrate knowledge of specific medications in the major drug classifications:

• Identify commonly used medications, and compare and contrast their characteristics.
• Summarize the sources, mechanism of action, and indications for specific drug therapies.
• State the appropriate dosages for several drugs.
• Demonstrate proper administration techniques for various medications.
• Describe the side effects, precautions, contraindications, and interactions for specific medications with examples.
• Evaluate the factors that influence the absorption and effectiveness of drugs.
• Assess the unique features of a medication that are important for patient education.
• Generate a list of responsibilities and appropriate interventions in caring for patients and their caregivers.
• Develop safety instructions for both the health care practitioner and the patient in administrating and taking medications.
• Analyze the physiological effects of prolonged drug use, and discuss the responsibilities of a health care practitioner in addressing and treating drug abuse.
• Investigate recent actions taken by the government and by manufacturers for specific drugs.
• Integrate the key factors involved in considering drug therapies for older adults.
Course Outline or Schedule:
Week 1: Chapter 1: Consumer safety and drug regulations  
Chapter 2: Drug names and references

Week 2: Chapter 3: Sources and bodily effects of drugs  
Chapter 4: Medication preparations and supplies  
Chapter 5: Abbreviations and systems of measurement

Week 3: Chapter 6: Safe dosage calculations  
Chapter 7: Responsibilities and principles of drug administration  
Chapter 8: Administration by the gastrointestinal route

Week 4: Chapter 9: Administration by the parenteral route  
Chapter 10: Poison control  
Chapter 11: Vitamins, minerals, and herbs

Week 5: Chapter 12: Skin medications  
Chapter 13: Autonomic nervous system drugs

Week 6: Chapter 14: Antineoplastic drugs  
Chapter 15: Urinary system drugs  
Chapter 16: Gastrointestinal drugs

Week 7: Chapter 17: Anti-infective drugs  
Chapter 18: Eye medications  
Chapter 19: Analgesics, sedatives, and hypnotics

Week 8: Chapter 20: Psychotropic medications, alcohol, and drug abuse  
Chapter 21: Musculoskeletal and anti-inflammatory drugs  
Chapter 27: Drugs and older adults

Week 9: Chapter 22: Anticonvulsants, antiparkinsonian drugs, and agents for Alzheimer’s disease  
Chapter 23: Endocrine system drugs  
Chapter 24: Reproductive system drugs
Week 10:  Chapter 25: Cardiovascular drugs  
Chapter 26: Respiratory system drugs and antihistamines

Final Exam

Course Grading Information:
A = 90-100  
B = 80-89  
C = 70-79  
D = 60-69  
F = 59 and below

Grades are normally rounded up to the nearest whole number when the value is greater than 0.5.

Grade Distribution:
Homework (All work in Cengage): 60%  
Discussions: 4 x 5% = 20%  
Final Exam: 20%  
100%

Late Work, Attendance, and Make Up Work Policies:
All work is to be completed by the due dates given. Only one submission for a grade is permitted.

Student Behavioral Expectations or Conduct Policy:
Students are expected to do their own work and adhere to online course policies as well as oncampus classes.

* Click Here for the MCC Academic Integrity Statement (www.mclennan.edu/academic-integrity)  
The link above will provide you with information about academic integrity, dishonesty, and cheating.
* Click Here for the MCC Attendance/Absences Policy
(www.mclennan.edu/highlander-guide-2014-15/policies)
Click on the link above for the college policies on attendance and absences. Your instructor may have guidelines specific to this course.

Disabilities/ADA Statement
Any student who may require special arrangements in order to meet course requirements because of a disability should contact Disability Services as soon as possible to make necessary arrangements. Once that process is completed, appropriate verification from Disability Services will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification from Disability Services has been provided. For additional information, please visit mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

Laura Caruthers, Success Coach, Disability Services
disabilities@mclennan.edu
254-299-8122
Room 249D, Completion Center, in the Student Services Center

* Click Here for more information about Title IX
(www.mclennan.edu/titleix)
We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinators at titleix@mclennan.edu or to call Dr. Drew Canham (Vice President for Student Success) at 2998645 or Missy Kittner (Director, Human Resources) at 299-8514. Individuals also may contact the MCC Police Department at 299-8911 or Counseling Services at MCC by calling 299-8210.

McLennan’s Title IX webpage (http://www.mclennan.edu/titleix/) contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence or domestic violence.

* You will need to access each link separately through your Web browser (for example: Internet Explorer, Mozilla, Chrome, or Safari) to print each link’s information.