



WACO, TEXAS

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**COURSE SYLLABUS  
AND  
INSTRUCTOR PLAN**

Pharmacology for Health Professions

HPRS 2300

Tiffany Marty MSN, RN, CHSE

NOTE: This is an online course.

## Pharmacology for Health Professions

### HPRS 2300

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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> 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 Brightspace or e-mail access.

Resource for students is the HELP line for technical assistance: 254-299-8077. After 5:00 PM and on weekends call 717-6349.

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## Pharmacology for Health Professions

### HPRS 2300

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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](mailto: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](http://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 pop- up.

#### Instructor Information:

Instructor Name: Tiffany Marty

MCC E-mail: [tmarty@mclennan.edu](mailto:tmarty@mclennan.edu)

Office Phone Number: 254-223-2824

Office Location: HPN 114

Office/Teacher Conference Hours:

#### 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: 8th

Publisher: Cengage Publishing ISBN: ISBN-13: 978-1-337-81077-7 (with MindTap computer access code)

**MCC Bookstore Website:** <http://www.mclennan.edu/bookstore/>

#### **Student Support/Resources:**

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources, we encourage you to contact a success coach by calling (254) 299-8226. Students can visit the Completion Center Monday-Friday from 8:00 a.m.-5:00 p.m. to meet with a success coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) is open 12:00 p.m.-1:00 p.m., Monday-Friday, without an appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

**Minimum Technical Skills:**

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

**Backup Plan for Technology:**

In the event MCC's technology systems are down, you will be contacted/notified through your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

**\* [Click Here for the Minimum System Requirements to Utilize MCC's D2L/Brightspace](https://www.mclennan.edu/center-for-teaching-and-learning/Faculty%20and%20Staff%20Commons/requirements.html)**  
**(<https://www.mclennan.edu/center-for-teaching-and-learning/Faculty%20and%20Staff%20Commons/requirements.html>)**

Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L/Brightspace learning management system.

**Methods of Teaching and Learning:**

Online format, assignments, exams, textbook, email. 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](mailto: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.

#### **Pharmacology for Health Professions HPRS 2300**

- Apply the principles that support the moral, ethical, and legal responsibilities of the health care practitioner in administering 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 administering 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 administering 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 Schedule

The cengage website will be open the entire semester. This is a suggested timeline to follow:

Week 1: June 1 through June 6

Chapter 1: Consumer Safety & Drug Regulations

Chapter 2: Drug Names & References

Week 2: June 7 through June 13

Chapter 3: Sources & Bodily Effects of Drugs

Chapter 4: Medication Preparations & Supplies

Chapter 5: Abbreviations & Systems of Measurement

Week 3: June 14 through June 20

Chapter 6: Safe Dosage Calculations

Chapter 7: Responsibilities & Principles of Drug Administration

Chapter 8: Administration by the GI Route

Week 4: June 21 through June 27

Chapter 9: Administration by the Parenteral Route

Chapter 10: Poison Control

Chapter 11: Vitamins, Minerals, & Herbs

Week 5: June 28 through July 4

Chapter 12: Skin Medications

Chapter 13: Autonomic Nervous System Drugs

Week 6: July 5 through July 11

Chapter 14: Antineoplastic Drugs

Chapter 15: Urinary System Drugs

Chapter 16: GI Drugs

Week 7: July 12 through July 18

Chapter 17: Anti-Infective Drugs

Chapter 18: Eye Medications

Chapter 19: Analgesics, Sedatives, & Hypnotics

Week 8: July 19 through July 25

Chapter 27: Drugs & Older Adults

Chapter 20: Psychotropic Medications, Alcohol, & Drug Abuse

Chapter 21: Musculoskeletal & Anti-Inflammatory Drugs

Week 9: July 26 through August 1

Chapter 22: Anticonvulsants, Antiparkinsonian Drugs, & Agents for Alzheimer's Disease

Chapter 23: Endocrine System Drugs

Chapter 24: Reproductive System Drugs

Week 10: August 2 through August 8

Chapter 25: Cardiovascular Drugs

Chapter 26: Respiratory System Drugs & Antihistamines

## Final Exam

Your final exam is open book. It consists of 100 questions.

Available from 0001, Saturday, August 8 through 1159, Monday, August 10

All work is to be completed by midnight, Monday, August 10

Dates for Discussions (Discussions must be done within these time frames to receive credit)

Discussion 1: Opens June 1 at 0001 am through Saturday June 6 at 1159 pm

Discussion 2: Opens June 7 at 0001 am through Saturday June 20 at 1159 pm

Discussion 3: Opens June 21 at 0001 am through Saturday July 3 at 1159 pm

Discussion 4: Opens July 5 at 0001 am through Saturday July 18 at 1159 pm

### Discussion Guidelines and Grading.

There will be a total of 4 discussion boards. The first will be an introduction and the other three will be based on specific topics. After reviewing the material for the discussion (either in the book or individual research), respond to the prompts provided on the discussion board. The initial response should be well thought out and substantial enough to indicate that you have a firm grasp on the material. You must then respond to at least two (2) classmates with substantial responses. Responses like "I agree" or "good point" will not be accepted. The original post must be on one



## Pharmacology for Health Professions

### HPRS 2300

day then each response to a fellow student must be on separate days. This means that you will have to post on 3 separate days.

An initial post (thread) must be completed before you are able to reply to another classmate.

Must meet all the requirements within a section to receive points

Grading Area	Excellent	Good	Fair	Poor	Unsatisfactory
Participation (10%)	Posts early in discussion time frame (first 3 days) and engages with two classmates. Posts on 3 different days	Posts early in discussion time frame (first 3 days) and engages with two classmates. Posts on 3 different days	Posts early in discussion time frame (first 3 days) and engages with two classmates. Posts on 3 different days	Posts Late in discussion time and does not engage with classmates. Does not post on 3 different days	Does not participate
Responses to Discussion (40%)	All components of the discussion prompt are addressed. Comments are thoughtful and reflective. Comments provoke questions and comments from classmates.	Most Components of the discussion prompt are addressed. Some comments are thoughtful and reflective thoughtful and reflective. Comments may lead to questions or remarks from other students	Some components of the discussion prompt are address. Come comments are thoughtful and reflective. Comments rarely lead to questions or remarks from other classmates	Minimal components of the discussion prompt are addressed. The comments are rarely thoughtful or reflectively and do not lead to questions or remarks from other students.	Does not participate
Application of course material	Clear that the student has read, understood and	Somewhat clear that the student read, understood and	Evident the student may have read but lacks understanding	Evident student has not read and has not understanding of	Does not participate

Pharmacology for Health Professions

HPRS 2300

(20%)	incorporated the assigned material. Evident use of outside resources as necessary. Clear reference to text and outside references. Includes proper citation for references. (Uses outside references other than book)	incorporated the assigned material. May lack detail or critical insight. Attempts to use outside reference. References resources with minor errors	and unable to incorporate the assigned material. Lacks thoroughness. No use of outside reference. Attempts to reference resources with multiple errors	material and is not able to successfully participate in discussion. No use of outside reference. No attempt to reference resources	
Quality of Responses (20%)	Comments are clear, concise and demonstrate attentiveness to others. Creatively builds on others' comments to offer additional insight.	Shows consistency in responding to the comments of others. Stays focused on the stream of discussion rather than offering own ideas. Offers some engagement but mostly summarizes what others have to said	Does not stay focused on others' comments or loses continuity of discussion. Inconsistent in tracking discussion stream. May add some summarization but mostly provides simple statements such as "I agree"	Is only focused on formulation own ideas and does not stay focused on continuity of discussion and does not contribute to the discussion. Only provides simple statement in response to others statements. Ex. "I agree" good post" etc.	Does not participate
Etiquette (10%)	Interactions are respectful of the the viewpoints of their classmates. See the		Interactions with classmates are somewhat respectful of the viewpoints of		Does not participate

## Pharmacology for Health Professions

HPRS 2300

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	12 guidelines of online discussions		others. Do not follow all 12 guidelines of online discussions		
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### 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 on- campus classes.

\* [Click Here for the MCC Academic Integrity Statement](#)

([www.mclennan.edu/academic-integrity](http://www.mclennan.edu/academic-integrity))

The link above will provide you with information about academic integrity, dishonesty, and cheating.

### Attendance

Each homework assignment that is missed will count as an absence

**\* [Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)**

**(<https://www.mclennan.edu/highlander-guide/policies.html>)**

Click on the link above for the college policies on attendance and absences. Your instructor may have guidelines specific to this course.

**Accommodations/ADA Statement**

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. Instructors should not provide accommodations unless approved by the Accommodations Coordinator. For additional information, please visit [mclennan.edu/disability](http://mclennan.edu/disability).

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

[disabilities@mclennan.edu](mailto:disabilities@mclennan.edu)

254-299-8122

Room 319, Student Services Center

**\* [Click Here for more information about Title IX](http://www.mclennan.edu/titleix/)**

**([www.mclennan.edu/titleix/](http://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 Coordinator at [titleix@mclennan.edu](mailto:titleix@mclennan.edu) or by calling Dr. Drew Canham (Vice President for Student Success) at 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC by calling 299-8210. The MCC Student Counseling Center is a confidential resource for students.

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.*