



NURS 3312.01B Principles of Pharmacology

COURSE SYLLABUS: Spring 2016 (3 credit hours)

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COURSE INFORMATION

COURSE DESCRIPTION

This course focuses on the basic drug classification, concepts and principles of pharmacology with special consideration for the nursing role in developing a comprehensive approach to the clinical application of drug therapy through the use of the nursing process. Nursing implications relative to the utilization of drug therapy are examined. Dosage calculations are evaluated for competency.

This course is designed for self-motivated adult learners. The majority of the course content will be located on ecollege and in your textbooks. The other portion of the course will be periodic class meetings to engage in activities to reinforce the assigned course content.

Materials- Textbooks, Readings, Supplementary Readings:

Required Textbooks:

Kee, J., Hayes, E., & McCuiston, L.E. (2015) *Pharmacology: A nursing process approach* (8th Ed.). Saunders Elsevier. (ISBN: 978 145575 1488)
Ogden, S., & Fluharty, L. (2012) *Calculation of drug dosages* (9th Ed.) St. Louis: Mosby.

Recommended Textbooks:

Hogan, L. (2012). *Rationales and reviews for pharmacology* (3rd Ed). Boston: Pearson (ISBN: 978-0133045994).

Skidmore -Roth, L. (latest edition) *Mosby's drug guide for nurses*. St. Louis: Mosby.

Student Learning Outcomes:

1. Define basic pharmacological terminology.
2. Apply general concepts of pharmacokinetic and pharmacodynamic processes and their application in drug therapy and the nursing process.
3. Recognize significant adverse drug reactions, drug-drug, and drug-nutrient interactions.
4. Describe major classifications of drugs used in current treatment of disease.
5. Identify the various herbal therapies and their role in health care.
6. Describe the professional responsibility and standards of practice for the professional nurse as related to the medication administration process.
7. Provide appropriate patient teaching, through case study, regarding drug therapy that reflects rural access, developmental stage, age, culture, and spirituality.
8. Describe strategies employed for patient safety during the preparation and administration of medications.
9. Demonstrate competency in performing clinical drug and dosage calculations.

COURSE REQUIREMENTS

Instructional / Methods / Activities Assessments

Course objectives may be met through self-paced online assignments using recommended resources, participation in face to face activities, and exchange of ideas with classmates regarding specific topics utilizing critical thinking skills. Teaching methods include interactive activities, small group discussion, and case study analysis as assigned, independent study of texts and library resources, audio-visual aids, information provided on online, and assignments. While the professor will provide guidance and consultation, the student is responsible for identification of learning needs, self-direction, seeking consultation and help as needed to achieve course objectives. In other words, you must take responsibility for your own learning, which largely occurs via self-study outside of class. Class time is used for application and clarification of what you have already learned outside of class.

Grading: Students must achieve a minimum average of 75 on all exams in order to pass the course. Other graded assignments (including quizzes) will not be added to the final grade unless exam grade average is 75% or higher. Grades will be determined as follows:

Assessment	Percentage Each	Total
Quizzes (7)	4% each	28%
Exams (6)	10% each	60%
Final Exam		12%
TOTAL		100%

Grading Scale:

A = 90-100

B = 80-89

C = 75-79

D = 67-74

F = 66 and Below

TECHNOLOGY REQUIREMENTS

- To fully participate in online courses, you will need to use a current, Flash enabled browser. For PC users, the suggested browser is Internet Explorer 9.0 or 10. For Mac users, the most current update of Firefox is suggested.
- You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
 - 512 MB of RAM, 1 GB or more preferred
 - Broadband connection required courses are heavily video intensive
 - Video display capable of high-color 16-bit display 1024 x 768 or higher resolution
- You must have a:
 - sound card, which is usually integrated into your desktop or laptop computer
 - speakers or headphones.
- Depending on your course, you might also need a:
 - webcam
 - microphone

For courses where interactive tools are used, like VoiceThread or Class Live Pro, headphones are suggested for use with recording and playback. We recommend a webcam with an integrated microphone, such as the Microsoft LifeCam Cinema. All devices should be installed and configured before class begins.

- Both versions of Java (32 bit and 64 bit) must be installed and up to date on your machine. Java can be downloaded at:
<http://www.java.com/en/download/manual.jsp>
- Current anti-virus software must be installed and kept up to date.
- You will need some additional free software for enhanced web browsing. Ensure that you download the free versions of the following software:
 - Adobe Reader
 - Adobe Flash Player

- At a minimum, you must have Microsoft Office 2013, 2010, 2007 or Open Office. Microsoft Office is the standard office productivity software utilized by faculty, students, and staff. Microsoft Word is the standard word processing software, Microsoft Excel is the standard spreadsheet software, and Microsoft PowerPoint is the standard presentation software. Copying and pasting, along with attaching/uploading documents for assignment submission, will also be required. If you do not have Microsoft Office, you can check with the bookstore to see if they have any student copies.
- For additional information about system requirements, please see: <https://secure.ecollege.com/tamuc/index.learn?action=technical>

ACCESS AND NAVIGATION

Pearson LearningStudio Access and Log in Information

This course will be facilitated using Pearson LearningStudio, the learning management system used by Texas A&M University Commerce. To get started with the course, go to: <http://www.tamuc.edu/myleo.aspx>.

You will need your CWID and password to log in to the course. If you do not know your CWID or have forgotten your password, contact Technology Services at 903.468.6000 or helpdesk@tamuc.edu.

It is strongly recommended that you perform a "Browser Test" prior to the start of your course. To launch a browser test, login to Pearson LearningStudio, click on the 'myCourses' tab, and then select the "Browser Test" link under Support Services.

Pearson LearningStudio Student Technical Support

Texas A&M University Commerce provides students technical support in the use of Pearson LearningStudio.

Technical assistance is available 24 hours a day/ 7 days a week.

If at any time you experience technical problems (e.g., you can't log in to the course, you can't see certain material, etc.) please contact the Pearson LearningStudio Help Desk, available 24 hours a day, seven days a week.

The student help desk may be reached by the following means 24 hours a day, seven days a week.

- **Chat Support:** Click on '*Live Support*' on the tool bar within your course to chat with an Pearson LearningStudio Representative.

- **Phone:** 1-866-656-5511 (Toll Free) to speak with Pearson LearningStudio Technical Support Representative.
- **Email:** helpdesk@online.tamuc.org to initiate a support request with Pearson LearningStudio Technical Support Representative.

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Accessing Help from within Your Course: Click on the *'Tech Support'* icon on the upper left side of the screen inside the course. You will then be able to get assistance via online chat, email or by phone by calling the Help Desk number noted below.

Note: Personal computer problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, an Internet cafe, or a bookstore, such as Barnes & Noble, etc.

Policy for Reporting Problems with Pearson LearningStudio

Should students encounter Pearson LearningStudio based problems while submitting assignments/discussions/comments/exams, the following procedure **MUST** be followed:

1. Students must report the problem to the help desk. You may reach the helpdesk at
2. helpdesk@online.tamuc.org or 1-866-656-5511
3. Students **MUST** file their problem with the helpdesk and obtain a helpdesk ticket number
4. Once a helpdesk ticket number is in your possession, students should email me to advise me of the problem and to provide me with the helpdesk ticket number
5. At that time, I will call the helpdesk to confirm your problem and follow up with you

PLEASE NOTE: Your personal computer/access problems are not a legitimate excuse for filing a ticket with the Pearson help desk. You are strongly encouraged to check for compatibility of your browser **BEFORE** the course begins and to take the Pearson LearningStudio tutorial offered for students who may require some extra assistance in navigating the Pearson LearningStudio platform. **ONLY** Pearson LearningStudio based problems are legitimate.

Internet Access

An Internet connection is necessary to participate in discussions and assignments, access readings, transfer course work, and receive feedback from your professor. View the requirements as outlined in Technology Requirements above for more information.

myLeo Support

Your myLeo email address is required to send and receive all student correspondence. Please email helpdesk@tamuc.edu or call us at 903-468-6000 with any questions about setting up your myLeo email account. You may also access information at <https://leo.tamuc.edu>.

Learner Support

Go to the following link [One Stop Shop](#)- created to serve you by attempting to provide as many resources as possible in one location.

Go to the following link [Academic Success Center](#)- focused on providing academic resources to help you achieve academic success.

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement:

Communication between faculty and students is primary and taken seriously. Preferred communication methods are individualized office hours, email, or via office phone. If a phone call is not answered, please leave a message and send an e-mail using the direct e-mail link on the course home page. You will be treated with collegial respect and I expect you to communicate likewise in a professional manner using the principles of communication.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Class

1. Class Cancellation: In the event that a class is canceled, the student is expected to do the readings and complete the objectives for that day. The content will still be included on examinations. The material in this syllabus and dates identified in the Course Calendar are subject to change.
2. Class participation and attendance is expected. The students should notify course faculty in advance of any absence.
3. Exam dates are listed in each course syllabus, and the student is expected to be present for exams. In the event that the student will be absent, the course instructor must be notified in advance. Failure to do so will result in the student receiving a zero for the missed exam or quiz.
4. As an adult learner and responsible professional, the student is responsible for reading and completing assignments prior to class and for being prepared to participate in discussions over the assigned

material. It should not be expected that all material will be covered in class. Students are expected to come to class prepared.

5. Assignments must be handed in on time. Assignments submitted late without prior arrangement with the classroom instructor will receive a zero.

UNIVERSITY SPECIFIC PROCEDURES

ADA Statement

The Americans with Disability Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Gee Library 132

Phone (903) 468-8148

Fax (903) 468-8148

StudentDisabilityServices@tamuc.edu

Student Conduct-Refer to *Student Guides*

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. Students must adhere to standards of professional and academic conduct. Academic misconduct involves any activity that tends to compromise the academic integrity of the University, or subvert the educational process, including, but not limited to, cheating, plagiarism, falsifying academic records, misrepresenting facts and any act designed to give unfair academic advantage to the student or the attempt to commit such an act. Students are responsible for their own academic honesty and for reporting violations of academic honesty by others.

A&M-Commerce Student Guide:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/facultyHandbook/studentAccessSuccess/studentGuide.aspx>

BSN Student Guide:

<http://www.tamuc.edu/academics/colleges/educationHumanServices/departments/nursing/Current%20Students/studentguidebook/default.aspx>

Non-Discriminatory Statement: A&M-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Class/Date	Content	Reading Assignments
Class 1 /January 21	Pharmaceutic/Pharmacokinetic/Pharmacodynamic Phases Medication Safety Medication Administration	Chapters 1-4, 6-8
January 28	Online Quiz #1 due NLT 2359	
February 1	Exam 1	
Class 2 /February 2	Herbal Therapies Pediatric/ Geriatric Pharmacology Anti-inflammatory/Opioid/Non-Opioid Analgesics	Chapters 10-12, 25-26
February 11	Online Quiz #2 due NLT 2359	
February 15	Exam 2	
Class 3 /February 16	Vitamins/Minerals, Fluid and Electrolytes, Enteral/Parenteral Nutrition, Adrenergic/Cholinergic Drugs, Stimulants/Depressants	Chapters 15-21
February 25	Online Quiz #3 due NLT 2359	
February 29	Exam 3	
Class 4 /March 1	Anticonvulsants, Neurologic/Neuromuscular Drugs, Upper and Lower Respiratory	Chapters 22-24, 40-41
March 10	Online Quiz #4 due NLT 2359	
March 14-18	Spring Break	
March 21	Exam 4	
Class 5 /March 22	Antibacterial/Anti-infective Agents	Chapters 29-34
March 28	Online Quiz #5 due NLT 2359	
April 4	Exam 5	
Class 6 /April 5	Cardiovascular Agents	Chapters 42-46
April 14	Online Quiz #6 due NLT 2359	
April 18	Exam 6	

Class 7 /April 19	Gastro-intestinal, Eye/Ear, Dermatologic Drugs	Chapter 47-50
Class 8 /April 26	Endocrine and Anti-Diabetic Drugs	Chapters 51-52
April 28	Online Quiz #7 due NLT 2359	
May 11	Final Exam (Comprehensive)	8:00AM-900AM