NURS 5303.01 Pharmacology for Advanced Practice
SPRING 2022

COURSE INFORMATION

Instructor: Shelly Hanko PhD, FNP-BC
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Office Hours: by appointment
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Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required

Rosenthal, L. & Burchum, J. (2021). *Lehne's Pharmacotherapeutics for Advanced Practice Providers and Physician Assistants* (2nd ed.). St. Louis: Elsevier Saunders.

Shadow Health. (2017). Digital Clinical Experience (Version 5.0) [Software].
(ISBN: 978-0-98-978886-1) Available from http://www.shadowhealth.com

Course Description (3 semester credit hours)

This course focuses on general principles of pharmacology including pharmacokinetics, pharmacodynamics as they relate to the treatment and management of common illnesses and conditions across the lifespan. Attention is given to the physiologic basis and clinical characteristics of disease states relative to pharmacotherapy. Clinical decision-making and review of laws governing prescriptive authority for advance practice nursing are also emphasized.

Student Learning Outcomes

Upon completion of the course, the student will have been given the opportunity to:

1. Discuss the pharmacodynamics and pharmacokinetics of a variety of drugs used to treat primary care conditions throughout the lifespan. (AACN MSN Essential I)
2. Integrate pathophysiology, physiology, and pharmacotherapeutics into advanced clinical nursing practice. (AACN MSN Essential I)
3. For a given disease state, discuss pharmaceutical options, develop a therapeutic regimen that maximizes effectiveness while minimizing adverse reactions, provide appropriate patient education, and evaluate the response of the patient to the therapeutic agent. (AACN MSN Essential VIII)
4. Demonstrate clinical application of the pharmacology content through case study presentation. (AACN MSN Essential IV)
5. Identify pregnancy and lactation categorization of drugs and their indications for clinical use in that population. (AACN MSN Essential III)

6. Integrate knowledge of over-the-counter medications, vitamins, minerals, and alternative medicine in clinical practice anticipating potential drug-to-drug interactions. (AACN MSN Essential I)
7. Understand the professional and legal aspects of the advanced practice nurse in prescribing and managing pharmacological therapy, recognizing the advanced practice nurses' accountability, responsibility, and scope of practice. (AACN MSN Essential IX)
8. Demonstrate how to correctly write a prescription, including all appropriate elements. (AACN MSN Essential V)

COURSE REQUIREMENTS

Instructional / Methods / Activities Assessments

Teaching and learning methods will include lecture, presentations, group discussion, use of audiovisuals, on-line course information, handouts, reading and written assignments, and case studies.

Student Responsibilities

Online Etiquette: This class will be conducted mainly online. Please use the following a guide to your online behavior.

- Make a personal commitment to learning about, understanding, and supporting your peers.

- Assume the best of others in the class and expect the best from them.

- Recognize and value the experiences, abilities, and knowledge each person brings to class. Value the diversity of the class.

- Participate actively in the discussions, having completed the readings and thought about the issues.

- Pay close attention to what your classmates write in their online comments. Ask clarifying questions, when appropriate. These questions are meant to probe and shed new light, not to minimize or devalue comments.

- Think through and re-read your comments before you post them.

- Never make derogatory comments toward another person in the class.

- Do not make sexist, racist, homophobic, or victim-blaming comments at all.

- Disagree with ideas, but do not make personal attacks.

- Be open to be challenged or confronted on your ideas or prejudices.

- Challenge others with the intent of facilitating growth. Do not demean or embarrass others.

- Encourage others to develop and share their ideas.

- Be willing to change.

GRADING

Final grades in this course will be based on the following scale:

A = 90%-100%
B = 80%-89%
C = 75%-79%
D = 60%-74%
F = 59% or Below

Evaluation Methods	
Exam 1	50
Exam 2	50

Final Exam	75
Concept Modules 5	25
What is new? Student Presentation	40
Shadow Health Clinical Simulations (6)	60

Students must achieve a minimum average of 80% on exams in order to pass the course. Other graded assignments will not be added to the final grade unless exam grade average is 80% or higher.

Successful completion of the examinations and other required assignments will enable the student to meet the student learning outcomes.

Assessments

Exam: Exams will be an on campus proctored and timed assessment of the units specified in the course schedule. A student who is unable to take the scheduled exam must notify the instructor prior to the start of the exam to determine whether a make-up is available. **Students must achieve a minimum average of 80% on exams in order to pass the course. If an 80% exam average is achieved, then all other assignment grades will be added to the final course grade.** (Student outcomes 1-3, 5-8)

Concept Prescribing Modules: A solid foundation of the pathophysiology of disease states, pharmacodynamics, pharmacokinetics, drug side effects, and interactions is crucial for patient safety. The assigned prescribing modules help prepare the student for these concepts and other considerations in patient safety when prescribing medications. There will be concept modules for students to familiarize themselves in Shadow Health. (Student outcomes 1, 4, 8)

Pharmacology Presentation: A presentation will be made to post on the discussion board. You are responsible to answer any questions posted under your presentation for that week. Topics will be a new medication within the last 3-5 years of Instructors approval/assignment.

Shadow Health Clinical Simulations: Assignments are the 6 Focused Exams Grading is pass/fail; however, you must achieve a DCE score of 80% or higher on the Focused Exams. You will have multiple attempts to achieve your score. Each module will only be due on the topic week in the course schedule. The lab pass is to be downloaded and submitted in the assignment link in the course. There are no DCE scores for Concept Labs, they are pass/fail. (Student outcomes 1-8)

Login page: http://app.shadowhealth.com

For registration and purchase Registration directions: http://link.shadowhealth.com/How-To-Register

If you already have a Shadow Health account, you do not need to register for an additional student account. To add a course to your existing account log in and follow these instructions: http://link.shadowhealth.com/How-To-Add-A-Course

1. Enter Course PIN – January2022-6507-0115-5234-6200 Students will purchase access to Shadow Health via their personal debit/credit cards.

2. Please complete this student introduction: resource if you haven't already: https://link.shadowhealth.com/student-Orientation-Video

Technical requirements

1. Review requirements: http://link.shadowhealth.com/Minimum-System-Specifications

2. Tablets and mobile devices are not currently supported.

3. To use Speech-to-Text, you must complete assignments in Google Chrome

Shadow Health Support:

1. Contact Shadow Health with any questions or technical issues regarding Shadow Health **before** contacting your instructor.

2. Support is available at http://support.shadowhealth.com.

If at any time you have any questions or encounter any technical issues regarding the Digital Clinical Experience, please contact the Shadow Health support specialists by visiting the Learner Support Page at http://support.shadowhealth.com for contact information and hours. You may email the Learner Support team directly at mailto:support@shadowhealth.com at any time or by calling 800.860.3241.

Late Submissions:

It is expected that you will submit all class and clinical assignments on time. If you need an extension, it should be requested before the due date/time and may or may not be approved at the discretion of the course coordinator. Unexcused late assignments will be penalized 10% per day for each of the first two days overdue; on the 3rd day, the grade will be assigned as 0%. Communication on these matters is the student's responsibility.

Multiple instances of late clinical assignments will result in receipt of a Student Performance and Behaviors Evaluation Form and, possible, failure of clinical/course.

Paper Submissions:

All documents submitted online are to be in .docx, .rtf, or PPT, .pdf format. No other formats will be accepted (JPEG, GIF, etc.). Assignments need to be submitted in a maximum of one document per assignment. Failure to follow these guidelines will result in a grade of "0" on the assignment.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

TECHNOLOGY REQUIREMENTS

LMS
All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements
LMS Requirements:
https://community.brightspace.com/s/article/Brightspace-Platform-Requirements
LMS Browser Support:
https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

ZOOM technology will be utilized for exams.

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection 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, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

https://community.brightspace.com/support/s/contactsupport

Interaction with Instructor Statement

It is expected that you will check your D2L course and email at least **DAILY** for communication from the instructor. Sundays are an exception-

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 you are expected to communicate likewise in a professional manner.

It is expected that assignments will be graded and returned to the student within two (2) weeks of submission.

Nursing Student Guide

Specific information for the nursing student regarding the nursing program and current policies and procedures can be found in the MSN Student Guide located here: https://www.tamuc.edu/academics/colleges/educationHumanServices/departments/nursing/documents/MSN%20Student%20Guide%202019.pdf

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Last day to drop class with a "W" is April 22, 2022.

University Specific Procedures/Policies

A&M-Commerce requires the use of face-coverings in all instructional and research classrooms/laboratories. Exceptions may be made by faculty where warranted. Faculty have management over their classrooms. Students not using face-coverings can be required to leave class. Repetitive refusal to comply can be reported to the Office of Students' Rights and Responsibilities as a violation of the student Code of Conduct.

Students should not attend class when ill or after exposure to anyone with a communicable illness. Communicate such instances directly with your instructor. Faculty will work to support the student getting access to missed content or completing missed assignments.

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook.
http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: https://www.britannica.com/topic/netiquette

TAMUC Attendance

For more information about the attendance policy please visit the Attendance webpage and Procedure 13.99.99.R0.01.
http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate Academic Dishonesty 13.99.99.R0.03

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

Graduate Student Academic Dishonesty 13.99.99.R0.10

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf

Students with Disabilities-- ADA Statement

The Americans with Disabilities 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- Room 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@tamuc.edu

Website: Office of Student Disability Resources and Services

http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/

Nondiscrimination Notice

Texas A&M University-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.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.
For a list of locations, please refer to the Carrying Concealed Handguns On Campus document and/or consult your event organizer.

Web url:
http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE SPECIFIC PROCEDURES/POLICIES

CLASS :

1. 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 coordinator must be notified in advance. Failure to do so may result in the student receiving a zero for the missed exam or quiz. Review the MSN Student Guide for the exam absence process

COURSE OUTLINE / CALENDAR

Week	Content	Readings
1 1/12/22	**Meet on campus at NHS orientation 1/15/21 at 09:00 am** Overview of course/syllabus Conscientious and Rational Prescribing Pharmacokinetics, Pharmacodynamics, Adverse drug reactions Individual variations to drug responses	Lehne: Chap 1-7
2 1/19/22	Drug Therapy Across the Life Span Drugs for Eyes, Ears, Skin **ShadowHealth Advanced Pharmacology Orientation** **ShadowHealth Conversation Concept Lab**	Lehne: Chap 8-10 Lehne: Chap 87-89
3 1/26/22	Peripheral Nervous System Drugs	Lehne: Chap 11-17
4 2/2/22	Central Nervous System Drugs	Lehne: Chap 18-22
5 2/9/22	Drugs for Pain Drug Abuse	Lehne: Chap 23-25, 32-35

	ShadowHealth Analgesics Concept Lab due 10pm **ShadowHealth Focused Exam: Pain Management due by 10PM**	
6 2/16/22	Psychotherapeutic Drugs	Lehne: Chap 26- 31
7 2/23/22	**Exam 1 (Ch 7-35, 87-89) @ 9AM-10AM**	All exams are comprehensive
8 3/2/22	Drugs that affect the heart, blood vessels, blood and blood volume – Part 1 **ShadowHealth Antihypertensives Concept Lab due by 10PM**	Lehne: Chap 36-41
9 3/9/22	Drugs that affect the heart, blood vessels, blood and blood volume – Part 2 **Presentation due by 10pm**	Lehne: Chap 42-47
10 3/23/22	Drugs for Endocrine Disorders Women's Health Men's Health	Lehne: Chap 48-53

	ShadowHealth Antidiabetics Concept Lab due by 10pm **ShadowHealth Focused exam: HTN & DMII due 10PM**	
11 3/30/22	Anti-inflammatory, Antiallergic, and Immunologic Drugs **Exam 2 (Ch 36-53) @ 9AM-10AM** **ShadowHealth Anti-Asthmatics Concept Lab due 10pm**	Lehne: Chap 54-58
12 4/6/22	Drugs for Bone and Joint Disorders Respiratory Tract Drugs **ShadowHealth Focused exam: COPD due 10 PM** **Concept Module Adult due by 10PM**	Lehne: Chap 59-61
13 4/13/22	Gastrointestinal Drugs Nutrition and Complimentary Therapies **ShadowHealth Focused Exam: UTI due by 10PM**	Lehne: Chap 64-66

14 4/20/22	Therapy of Infectious and Parasitic Diseases – part 1 **ShadowHealth Anti-infectives Concept Lab due by 10pm** **ShadowHealth Focused exam: Pediatric GAS Pharyngitis due 10pm**	Lehne: Chap 70-76
15 4/27/22	Therapy of Infectious and Parasitic Diseases – part 2 **ShadowHealth Focused exam: CAP due 10pm**	Lehne: Chap 77-83
16 5/ 4/22	**Final Exam (Ch 54-66,70-83)** And comprehensive	

Presentation Rubric

ASSIGNMENT CRITERIA	Excellent	Good	Satisfactory	Needs Improvement	Mark
1) Drug name and Uses	History and need of drug use	Current uses	Name and appproved use		**2**
2) Drug Classification	include generic & brand names in classifications	.		Very disorganized.	**2**
3) Drug action	medication presented including action, drug-drug interaction, diet/rug interaction	Most medication information presented	Some medication information presented with some data gaps.	Minimal medication information presented with many data gaps	**8**
4) Therapeutic effect desired	Desired therapeutic effects Presented f. Very organized.	Most therapeutic effects presented. General organization.	Some therapeutic effects presented. Some disorganization.	Minimal therapeutic effects presented many data gaps.	**8**
5) Common side effects for EACH drug	Presented ALL common side effects most common to both drugs	Presented most common side effects most common to both drugs. Minimal data gaps.	Presented some side effects for both drugs with many data gaps.	Minimal side effects presented for one or both drugs with numerous data gaps.	**4**

7) Health teaching	All health teaching provided OR would have been provided to client. Thorough, concise, relevant, organized. Critical thinking evident. Citations.	Most health teaching provided or would have been provided to client. Mostly relevant, organized, concise, and fairly thorough. Some citations.	Some health teaching presented for both drugs. Relevance not always clear, disorganized, minimal citation.	Minimal health teaching provided for one or both drugs. Many data gaps. **8**
8) Evaluation of medication effectiveness	Thoroughly presented drug effectiveness presented, subjective and objective data included. Data gaps noted.	Most drug effectiveness presented, data gaps identified, some data objective/subjective	Some drug effectiveness data presented. Data gaps not identified, objective or subjective minimal.	Minimal effectiveness presented. Data gaps not identified, objective or subjective omitted. **4**
9) APA:	APA correct; correct margins, double spaced, title & reference pages, numbered pages, correct in-paper citations, stapled only, no folders, rubric sheet. **0 errors**.	Mostly correct application of APA, meets most criteria. **1-5 errors**.	Some correct application of APA, meets some criteria. **6-10 errors**.	Minimal application of APA with many mistakes. **>10 errors**. **2**
Spelling & grammar:	Perfect spelling and grammar. Grammar and spelling appropriate to college level writing expectations. **0 errors.**	Mostly correct spelling and grammar with only a few mistakes. Meets college level writing expectations. **1-5 errors.**	Several spelling and grammar mistakes. Below college level writing expectations. **6-10 errors.**	Numerous spelling and grammar errors. Well below college level writing expectations. **> 10 errors.** **2**

Total Mark: _____/40