



NURS 3312.01B Principles of Pharmacology

COURSE SYLLABUS: Spring 2024; Tuesdays 1500-1650 (NHS 261)

INSTRUCTOR INFORMATION

Course Coordinator: Jennifer Ashcraft, MSN(Ed), RN.
Office Location: Nursing Department 65
Office Hours: as posted and by appointment
Office Phone: **903-886-5315**
Office Fax: **903-886-5729**
University Email Address: Jennifer.Ashcraft@tamuc.edu
Preferred Form of Communication: email
Communication Response Time: Two business days

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

RN pharmacology for nursing (9th ed.). (2023). Assessment Technologies Institute
(Author). Smith, B. T. & Pacitti, D. F. (2020). *Pharmacology for nurses* (2nd ed).
Jones Bartlett Learning. ISBN: 9781284141986
Nurse's drug handbook. (2023). Jones & Bartlett Learning (Author). ISBN
9781284274103

Highly Recommended Texts:
American Psychological Association. (2020). Publication manual of the American
Psychological Association (7th ed.). American Psychological Association. ISBN:
978-1-4338-3216-1

Software Required:
Microsoft Office

ExamSoft Exemplify

Assessment Technologies Institute, LLC. (2021). <https://www.atitesting.com>

Course Description

This course focuses on the basic drug classification and 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.

Student Learning Outcomes.

By the end of the course, the student will be able to:

1. Define basic pharmacological terminology. **AACN Essentials 2.4A**
2. Apply general concepts of pharmacokinetic and pharmacodynamic processes and their application in drug therapy and the nursing process. **AACN Essentials 2.4A**
3. Recognize significant adverse drug reactions, drug-drug, and drug-nutrient interactions. **AACN Essentials 2.3E**
4. Describe major classifications of drug used in the current treatment of disease. **AACN Essentials 2.4E**
5. Provide patient teaching, regarding drug therapy that reflects rural access, developmental stage, age, culture, and spirituality. **AACN Essentials 2.4A -2.4D**

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Use of the Learning Management System (LMS) D2L, Microsoft Word, Excel and PowerPoint.

Instructional Methods

This is a blended course requiring students to complete reading assignments, online activities and independent study. Course objectives may be met through individual study using suggested resources, active involvement in classroom activities, formal, and informal exchange of ideas with classmates and colleagues regarding specific topics as well as utilizing critical thinking skills. Teaching methods may include lecture, seminar, discussion, small group work, PowerPoints, VoiceThreads, independent study of texts and library resources, computer-assisted instruction, audio-visual aids, and assignments. While the professor will provide guidance and consultation, the student is responsible for identification of learning needs, self-direction, seeking consultation, and demonstration of course objectives.

Student Responsibilities or Tips for Success in the Course

- Logging into the course website and checking email regularly for faculty communication (especially the night before class/clinical).
- Updating semester calendar with communicated changes.
- Regular study (recommend a minimum 2-3 hours study/course credit hour per week). **For example 3-credit course = 6 to 9 hours study time/week.**
- Attendance at all class meetings, clinical, seminars and simulations.
- Review and remediation of examinations.
- Read all material before class

Advising Statement

Before being accepted and entering the nursing program, undergraduate students may have been advised by a pre-nursing advisor. However, once admitted into nursing, the nursing faculty and the Student Success Coach will become the students' advisors. The nursing department subscribes firmly to the chain of command because, as nurses, that is how most employers will require you to resolve issues. If you have a problem with a course, you should contact your instructor, then the course coordinator, then the BSN program Coordinator, then the department head for nursing. Therefore, any advisement questions or any other concerns you have should first be discussed with your clinical or course instructor. She/he is your advisor for that semester.

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 = Below 60%

ASSESSMENTS

Assignments	Weight
Exams (6) 12% each	65%
Class Prework (15) 1% Each	15%
ATI Pharmacology Assessment	10%
Attendance & Participation	10%
Total	100%

A minimum grade of 74.5% is required to pass the course. Students must achieve a minimum average of 75% on all exams in order to pass the course. Other graded assignments will not be added to the final grade unless exam grade average is 74.5% or higher.

All students with an exam grade of less than 74.5% must review their exam prior to taking the next Exam. It is the student's responsibility to contact their course coordinator by email to set up an appointment to review the exam. The current exam must be reviewed before the next scheduled exam. Only the most current exam may be reviewed. Do not wait until the last minute to request a review. Of course, all students are welcome to review their exams but should follow the same procedure.

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

Rounding of Final Grade

Faculty may round final grades in alignment with the American Standard for Testing and Materials (ASTM) International Standards, which allow for 'rounding only after all calculations leading to the final result are completed.' Therefore, rounding of grades for individual assignments is not an accepted practice. Rounding will be calculated using the "five-up" rule allowing for decimal numbers that meet or exceed the halfway point between two values to be rounded up to the larger value. For example, a grade of 89.5% equals an A, whereas a grade of 89.49% equals a B. Therefore, prior to the awarding of final course grades, faculty will ensure the gradebook software in a course is in alignment with this standard. Rule retrieved for https://www.astm.org/NEWS/SO_2008/datapoints_so08.html

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, possibly, failure of clinical/course.

Paper Submissions:

All documents submitted online are to be in .docx, .rtf, or .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.

Group Work:

All members of the group will receive the same grade on any group work. However, a student can be removed from his/her team if the other students in the group come to the instructor and report that a student is not doing his/her fair share of the work. If that happens, the instructor will notify the student in writing. The student will then be responsible for doing the assignment on his/her own. It is expected that the group will make the attempt to resolve the situation within the group before instructor intervention.

Assessments

- Module Exams

Exams will be administered through ExamSoft.

There are 5 proctored, computer-based examinations. The Course Schedule identifies exam dates and applicable content. Questions will be in multiple formats, which could include multiple-choice, select all that apply, matching, sorting, short answer, hot spot, and more.

NOTE: Students arriving after the exam has begun may not be permitted entry. Students will need to take a make-up exam at a date/time schedule by faculty. Failure to arrive on time for a make-up exam may result in a zero.

- Proctored ATI RN Pharmacology

TAMUC School of Nursing utilizes Assessment Technologies Institute (ATI) assessment materials (content mastery practice assessments and content mastery proctored assessments) to guide and assess mastery of nursing content necessary for entry into practice. Specific ATI assessment and grading guidelines are outlined in the document entitled “ATI Content Mastery Series (CMS) Assessment Grading Rubric” in the module folder entitled “ATI Assessment Grading Rubric”. The ATI RN Anatomy and Physiology exam will be computer-based and administered according to the date and time posted in the class schedule. Testing Policies and Procedures and lateness policies apply.

The pharmacology assessment measures pharmacology knowledge, skills, and attitudes related to common medications used in patient care in a variety of settings. Assessment results help students identify and correct knowledge gaps in preparation for patient care and disease management.

- Pework Module Activities

There are prework assignments for each module. The purpose of the prework is to prepare you for class. **There is no late submission for prework allowed.**

- Attendance and Participation

This assignment requires and recognizes student engagement in the teaching/learning process. Attendance is met by being present for the entirety of each class session. Participation is met by actively joining in classroom activities and post class participation assignments.

Class

There are a variety of assignments for this class to meet the learning outcomes and to accommodate different learning styles. Assignment rubrics will be posted in D2L. Class meetings will occur **every Tuesday afternoon (1500-1650)**. You are expected to come to class prepared to engage in content discussions.

Exams will occur on selected Tuesdays (1500-1600) per course schedule attached.

All work in this course is individual work unless specified as group work. Any incidence of academic dishonesty (copying, plagiarism, cheating, etc.) will result in a failure of the assignment and may result in failure of the course as per the TAMUC Academic Dishonesty Policy.

Syllabus Change Policy

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

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 attendance is expected. The students should notify course coordinator 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 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 BSN Student Guide for the exam absence process.
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 would be covered in class. Students are expected to come to class prepared.

University Specific Procedures 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).
<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](#)

[Undergraduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

[Graduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

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

Velma K. Waters Library Rm 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.

A&M-Commerce Supports Students' Mental Health

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel

Department or Accrediting Agency Required Content

The Board of Nursing requires applicants, students throughout the program, graduates and licensure renewals to answer questions as to their ability to be admitted to a nursing program, sit for the NCLEX-RN exam or be re-licensed. You are responsible for checking those questions to be sure you remain in compliance. Keep in mind that your fingerprints are on file with the BON so if you should ever be arrested, they would be notified. You should notify them proactively. The link is as follows:

https://www.bon.texas.gov/licensure_eligibility.asp

COURSE OUTLINE / CALENDAR
NURS 3312 – Principles of Pharmacology
Spring 2024: Tuesdays 1500 – 1650 in NHS 261

Week 1	Jan 15 – 21 Module 1:	Attend Class January 16 Due Jan 18 @ 2359 Module 1 Assignment: <ul style="list-style-type: none">ATI Pharmacology Made Easy Module: Introduction to Pharmacology Read the following content: <ul style="list-style-type: none">Chapter 1 Pharmacokinetics and Routes of AdministrationChapter 2 Safe Medication Administration and Error ReductionChapter 5 Adverse Effects, Interactions, and Contraindications January 15 – Campus Closed MLK Jr. Day
Week 2	Jan 21 – 28 Module 2:	Attend Class January 22 Due January 22 @ 2359 Module 2 Pework: <ul style="list-style-type: none">ATI Active Stack Pharmacology Flash Cards: Principles of Pharmacology Read the following content: <ul style="list-style-type: none">Chapter 47 Complementary, Alternative, and Integrative Therapies
Week 3	Jan 29 – Feb 4 Module 3	Attend Class January 30 Due January 29 @ 2359 Module 3 Pework: <ul style="list-style-type: none">D2L Quiz Read the following content: <ul style="list-style-type: none">Chapter 13 Eye and Ear Disorders
Week 4	Feb 5 – Feb 11 Module 4	Attend Class February 6 Due February 5 @ 2359 Module 4 Pework: <ul style="list-style-type: none">ATI Pharmacology Made Easy Module: The Immune SystemATI Active Stack Pharmacology Flash Cards: Immune System Drugs Read the following content: <ul style="list-style-type: none">Chapter 39 ImmunizationsChapter 40 Chemotherapy Agents

Week 5	Feb 12 – Feb 8 Module 5	<p>Attend Class on February 13</p> <p>EXAM 1</p> <p>Due February 12 @ 2359</p> <p>Module 5 Prework:</p> <ul style="list-style-type: none"> • ATI Pharmacology Made Easy Module: The Hematologic System • ATI Active Stack Pharmacology Flash Cards: Hematologic System Drugs <p>Read the following content:</p> <ul style="list-style-type: none"> • Chapter 23 Medications Affecting Coagulation • Chapter 24 Growth Factors • Chapter 25 Blood and Blood Products
Week 6	Feb 19 – Feb 25 Module 6	<p>Attend Class on February 20</p> <p>Due February 19 @ 2359</p> <p>Module 6 Prework:</p> <ul style="list-style-type: none"> • ATI Pharmacology Made Easy Module: Respiratory System • ATI Active Stack Pharmacology Flash Cards: Respiratory System Drugs <p>Read the following content:</p> <ul style="list-style-type: none"> • Chapter 16 Airflow Disorders • Chapter 17 Upper Respiratory Disorders
Week 7	Feb 26 – March 3 Module 7	<p>Attend Class on February 27</p> <p>EXAM 2</p> <p>Due February 26 @ 2359</p> <p>Module 7 Prework</p> <ul style="list-style-type: none"> • ATI Pharmacology Made Easy Module: Cardiovascular System • ATI Active Stack Pharmacology Flash Cards: Cardiovascular System Drugs <p>Read the following content:</p> <ul style="list-style-type: none"> • Chapter 18 Medication Affecting Urinary Output • Chapter 19 Medications Affecting Blood Pressure • Chapter 20 Cardiac Glycosides and Heart Failure • Chapter 21 Angina and Antilipemic Agents • Chapter 22 Medications Affecting Cardiac Rhythm
Week 8	March 4 – March 10 Module 8	<p>Attend Class on March 5</p> <p>EXAM 3</p> <p>Due March 6 @ 2359</p> <p>Module 8 Assignment:</p> <ul style="list-style-type: none"> • ATI Practice A <p>Read the following content:</p> <ul style="list-style-type: none"> • Nothing to read this week

Week 9	March 11 – March 17	SPRING BREAK – CAMPUS CLOSED
Week 10	March 18 – March 24 Module 10	<p>Attend Class on March 29</p> <p>Due March 18 @ 2359</p> <p>Module 9 Prework:</p> <ul style="list-style-type: none"> • ATI Focused Review Practice A • ATI Pharmacology Made Easy Module: The Gastrointestinal System • ATI Active Stack Pharmacology Flash Cards: Gastrointestinal System Drugs <p>Read the following content:</p> <ul style="list-style-type: none"> ▪ Chapter 26 Peptic Ulcer Disease ▪ Chapter 27 Gastrointestinal Disorders ▪ Chapter 28 Vitamins and Minerals
Week 11	March 25 – March 31 Module 11	<p>Attend class on March 26</p> <p>Due March 25 @ 2359</p> <p>Module 10 Prework:</p> <ul style="list-style-type: none"> • ATI Pharmacology Made Easy Module: The Musculoskeletal System • ATI Active Stack Pharmacology Flash Cards: Musculoskeletal System Drugs <p>Read the following content:</p> <ul style="list-style-type: none"> • Chapter 31 Connective Tissue Disorders • Chapter 32 Bone Disorders <p>MARCH 28 – LAST DAY TO DROP</p>
Week 12	April 1 – April 7 Module 12	<p>Attend Class on April 2</p> <p>EXAM 4</p> <p>Due April 1 @ 2359</p> <p>Module 11 Prework:</p> <ul style="list-style-type: none"> • ATI Pharmacology Made Easy Module: Neurological System Part 1 and Part 2 • ATI Active Stack Pharmacology Flash Cards: Neurological System Drugs <p>Read the following content:</p> <ul style="list-style-type: none"> • Chapter 12 Chronic Neurologic Disorders • Chapter 14 Miscellaneous Central Nervous System Medications

Week 13

April 8 – April 14
Module 13

Attend Class on April 9

Due April 8

Module 12 Prework:

- ATI Practice B
- ATI Pharmacology Made Easy Module: Reproductive and Genitourinary Systems
- ATI Pharmacology Made Easy Module: The Endocrine System
- ATI Active Stack Pharmacology Flash Cards: Reproductive and Genitourinary System Drugs
- ATI Active Stack Pharmacology Flash Cards: immune System Drugs

Read the following content:

- Chapter 29 Medications Affecting the Reproductive Tract
- Chapter 30 Medications Affecting Labor and Delivery
- Chapter 37 Diabetes Mellitus
- Chapter 38 Endocrine Disorders
- Chapter 44 Urinary Tract Infections

Week 14

April 15 – April 21
Module 14

Attend Class April 16

Due April 15 @ 2359

Module 13 Prework:

- ATI Pharmacology Made Easy Module: Pain and Inflammation
- ATI Pharmacology Made Easy Module: Infection
- ATI Active Stack Pharmacology Flash Cards: Pain and Inflammation System Drugs
- ATI Active Stack Pharmacology Flash Cards: Infection System Drugs

Read the following content:

- Chapter 33 Non-Opioid Analgesics
- Chapter 34 Opioid Agonists and Antagonists
- Chapter 35 Adjuvant Medications for Pain
- Chapter 36 Miscellaneous Pain Medications
- Chapter 41 Principles of Antimicrobial Therapy
- Chapter 42 Antibiotics affecting the Bacterial Cell Wall
- Chapter 43 Antibiotic Affecting Protein Synthesis
- Chapter 45 Mycobacterial, Fungal, and Parasitic Infections

APRIL 18 – LAST DAY TO WITHDRAW

Week 15	April 22 – April 28 Module 15	<p>Attend Class April 23</p> <p>ATI Pharmacology Proctored Exam</p> <p>Due April 22 @ 2359</p> <ul style="list-style-type: none"> ATI Focused Review Practice B
Week 16	April 29 – May 5 Module 16	<p>Attend Class April 23</p> <p>EXAM 5</p> <p>NO CLASSES OR ASSIGNMENTS MAY 1 – 5</p>
FINALS	May 6 – May 10	<p>Finals week – Date/Time TBD</p> <p>EXAM 6: Comprehensive Final Exam</p>