

AUSTIN COMMUNITY COLLEGE
HITT 2430 – Pathophysiology and Pharmacology
8-25 to 12-14
Fall 2025

Course Day and Time	Online
Synonym and Section #	21930 -001
Campus	EVC
Room #	DIL
Professor	Cherise Jackson, RHIA
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Fax	
Email Address	cherise.jackson@austincc.edu
Website	www.austincc.edu/health/hitt
Office Location and Hours	Room 9408 Monday 4:00-7:00 p.m. Tuesday 4:00-7:00 p.m. Conferences by appointment
Additional contact information:	Students with questions about the course should contact their instructor . For other questions regarding the Allied Health Science Department (ALHS), students may contact: Karoline Gebert, Health Sciences Assistant at 512.223.5865 or by email: gebert@austincc.edu at the Eastview Campus

Course Description

This course is the study of the pathology and general health management of disease and injuries across the life span, including overview of the basic concepts of pharmacological treatment of various diseases affecting major body systems.

Course Prerequisites

BCIS 1305, BIOL 2404 (or BIOL 2401 and BIOL 2402), HPRS 1106.

Course Rationale

Careers in Health Information are among the most varied and rapidly expanding in the health care fields. Hospitals, clinics, doctors' offices and other health care facilities maintain permanent health records for each patient. An understanding of pathology and general health management of disease and injuries is necessary when using health care information in assigning disease and procedure classification and in ensuring complete relevant patient information is accessible in the record.



2018 AHIMA Entry Level Competencies.

Upon completion of the course the student will be able to:

1. Identify the normal anatomy and physiology of each major body system.
2. Explain the pathogenesis of human disease and the most common disorders of each major body system.
3. Discuss the basic approach to diagnosis and use of diagnostic procedures in human diseases.
4. Discuss the basic approaches to the treatment of various disorders based on current medical science and clinical practice.
5. Identify current treatments for particular diseases.
6. Identify the impact of particular diseases and injuries on the physiology of the human body.
7. Recognize potential diagnoses from documented signs, symptoms and treatments of a patient.
8. Define key pharmacology terms
9. Identify major drug classes* and prototype drug(s).
10. Interpret meanings for common abbreviations used in pharmacology (e.g., IVP, po)
11. Discriminate among major drug classes* by their mechanism(s) of action at the molecular, cellular and organism levels
12. Describe the basis for drug action on specific cells, tissues, organs, and integrated organ systems as a basis for decisions regarding applications in human therapeutics
13. Recognize the potential for drug-induced significant adverse effects and toxicities of major drug classes* and specific drugs
14. Match commonly used drugs and the corresponding diseases treated by the drug
15. Match commonly used drugs and the type of drug (e.g., anticoagulant, beta-blocker, antibiotic, antifungal)
16. Identify and correlate significant contraindications with specific drugs and or drug classes*
17. Explain the issues regarding drugs and special populations (e.g., elderly).

Upon completion of the Associate of Applied Science Degree in Health Information Technology, the student will be able to:

- A. Appropriately manage and use health data.
- B. Collect, report and interpret database information and compute related healthcare statistics.
- C. Apply and participate in the implementation of laws and policies and procedures within healthcare delivery systems as they relate to payment systems, healthcare provider information needs, patient privacy and disclosure and ethical standards of practice.
- D. Utilize technology, including specialized hardware and software applications to ensure accurate data collection, record tracking, and analysis, reporting and will be able to apply and contribute to the application of electronic health records and to the maintenance and design of patient information retrieval systems, while maintaining confidentiality and security of information.
- E. Apply the fundamentals of team and financial resource management, including budgeting, teamwork, education, communication and interpersonal skills in order to contribute to work plans, policies and procedures, resource management and others in performance as a member of a team.

SCANS Competencies

The U.S. Department of Labor established the Secretary's Commission on Achieving Necessary Skills (SCANS) to examine the demands of the workplace and whether our nation's students are capable of meeting those demands.

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The Commission determined that today's jobs generally require competencies in the following areas:

- Resources: Identifies, organizes, plans and allocates resources
- Interpersonal: Works with others
- Information: Acquires and uses information
- Systems: Understands complex interrelationships
- Technology: Works with a variety of technologies

The Texas Higher Education Coordinating Board requires that all degree plans in institutions of higher education incorporate these competencies and identify to the student how these competencies are achieved in course objectives.

**COMPETENCE EXAMPLE OF LEVEL
AREA**

Resources	Identifies resources used in course and allocates time for studying
Interpersonal	Shares experiences and knowledge with classmates Works as a member of a team for any assigned activities
Information	Acquires, organizes, maintains and evaluates information through lecture, reading and activities for assignment completion and exam preparation Uses computers to process information for assignment completion Identifies medications in sample records used for patient treatment
Systems	Uses critical thinking skills to identify and evaluate patient signs and symptoms, diagnoses and treatments Understands normal anatomy and physiology of major body systems Evaluates pathologic disease states in major body systems
Technology	Operates computers in relation to assignments Uses problem-solving skills to solve activities and case studies Uses technology in presentations
Basic Skills	Demonstrates ability to read assignments Demonstrates ability to speak and/or write about complex disease conditions Demonstrates the ability to read and/or listen to lecture material and take notes
Thinking Skills	Identifies and prepares for tests, quizzes and research activities. Uses creative thinking when completing assignments Demonstrates ability to make decisions on examinations and assignments Demonstrates ability to reason why particular treatments are used to treat specific diseases
Personal Qualities	Demonstrates responsibility by completing assignments and examinations on time Demonstrates integrity and honesty while completing assignments and exams Asserts self and networks with classmates and virtual lab to obtain information on current topics



Textbook

Pathopharmacology, 2nd Edition ISBN 978-0-357-61816-5

Bruce J. Colbert, MS, RRT, Kurtis Pierce, MBA, RRT

Instructional Methodology

Distance Learning - Online (Blackboard)

Grading System

The Health Information Technology courses use the following scale for determination of final grades:

A = 90-100%

B = 80-89%

C = 70-79%

D= 60-69%

F = 59% and below

A grade of 70% or above is required for passing any subject area.

Distance Education

ACC Distance Education General Information available at <https://online.austincc.edu/faq/>

Students will use the Blackboard learning management system for assignment instructions, submitting assignments, and collaboration.

Technology Support Services

In response to COVID-19-related campus closures, Austin Community College now provides free, secure drive-up Wi-Fi to students and employees in the parking lots of all campus locations. Wi-Fi can be accessed seven days a week, 7 am to 11 pm. Additional details are available at <https://www.austincc.edu/coronavirus/drive-up-wifi>

Students who submit the **Student Technology Access Form** and indicate they need help accessing their online learning environment to successfully complete their courses are eligible to check out an ACC iPad for use during the semester. You must be registered for a credit course, Adult Education, or Continuing Education course.

Method of Evaluation

The final grade for this course will be calculated based on the following percentages:

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50% Assignments and Activities

25% Exams {3}

25% Final Exam

Late Assignment/Quiz Policy

Assignments must be turned in by the due date listed on the Course Schedule. Late assignments/quizzes will be subject to a 10-point penalty if submitted after the posted due date and then a reduction of 10-points per day thereafter. Assignments will not be accepted if submitted 4 or more days after the posted due date (including weekends).

Exam Policy

The final exam will be taken online via Cengage/Mindtap, or Respondus and there is a window of 3 days to take an exam. If a student misses one exam for a documented medical or family emergency, a comprehensive makeup exam can be taken in the last week of the semester. If any other exams are missed or if an exam is missed for any other reason, a grade of "0" will be given. If a student misses more than one exam, a zero will be given for the second missed exam. **EXAMS MUST BE TAKEN NO LATER THAN THE DUE DATE ON THE COURSE SCHEDULE.**

Course Policies

Attendance/Class Participation

Regular and punctual class and laboratory attendance is expected of all students. If attendance or compliance with other course policies is unsatisfactory, the instructor may withdraw students from the class.

Attendance/Class Participation

Regular and timely class participation in discussions and completion of work is expected of all students. If attendance or compliance with other course policies is unsatisfactory, the instructor may withdraw students from the class.

When class meetings are cancelled because of weather, pandemic, or other emergencies:

The student is responsible for communicating with their professor during the closure and completing any assignments or other activities designated by their professor.

Generative Artificial Intelligence (GAI) Policy

Introduction: In this course, the use of generative AI (GAI) technologies is strictly prohibited to preserve academic integrity and ensure the development of student competencies.

1. Rationale: The prohibition is in place to encourage original thought, manual problem-solving skills, and to maintain equity in educational opportunities and assessments.
2. Definition of GAI: Generative AI refers to artificial intelligence systems that can generate text, images, or other content based on minimal input. This includes chatbots, image generation tools, and code assistants.



3. Usage Permissions: Prohibited: Students are not allowed to use GAI for completing assignments, projects, tests, or any form of assessment in this course.
4. Penalties: Any violation of this policy will result in academic penalties which may include a failing grade for the activity, reporting to academic affairs, and further disciplinary action.
5. Exceptions: Exceptions to this policy will only be made under specific circumstances approved by the instructor, typically where technology is used to accommodate learning differences.

Withdrawal Policy

It is the responsibility of each student to ensure that his or her name is removed from the rolls should they decide to withdraw from the class. The instructor does, however, reserve the right to drop a student should he or she feel it is necessary. If a student decides to withdraw, he or she should also verify that the withdrawal is recorded before the Final Withdrawal Date. **The Final Withdrawal Date for this semester is Thursday 11-20-25.** The student is also strongly encouraged to keep any paperwork in case a problem arises.

Students are responsible for understanding the impact that withdrawal from a course may have on their financial aid, veterans' benefits, and international student status. Per state law, students enrolling for the first time in Fall 2007 or later at any public Texas college or university may not withdraw (receive a "W") from more than six courses during their undergraduate college education. Some exemptions for good cause could allow a student to withdraw from a course without having it count toward this limit. Students are strongly encouraged to meet with an advisor when making decisions about course selection, course loads, and course withdrawals.

Students who enroll for the third or subsequent time in a course taken since Fall, 2002, may be charged a higher tuition rate, for that course.

State law permits students to withdraw from no more than six courses during their entire undergraduate career at Texas public colleges or universities. With certain exceptions, all course withdrawals automatically count towards this limit. Details regarding this policy can be found in the ACC college catalog.

Incompletes

An incomplete (grade of "I") will only be given in Fall 2023 semester due to extenuating circumstances. What constitutes "extenuating circumstances" is left to the instructor's discretion. If a grade of I is given, the remaining course work must be completed by a date set by the student and professor. This date may not be later than two weeks prior to the end of the 2023 fall semester. A grade of I also requires completion and submission of the [Incomplete Grade form](#), to be signed by the faculty member (and student if possible) and submitted to the department chair.

Students receiving an "I" for Fall 2023 may complete remaining course requirements and convert the I to a completion grade during the Spring 2024 semester. The final date for conversion of spring and summer semester incompletes is the published final fall conversion date for Incompletes.

Students receiving an "I" for Fall 2023 who have not completed course requirements by the extended conversion date may request that the I be converted to a W and that they receive a voucher to take the course in Fall 2024. These requests will be considered by the **COVID-19 Spring 2022 Hardship Review Committee**. Approval would require extenuating circumstances that did not allow the student to complete the course requirements during the extended completion time.

Students may request an Incomplete from their faculty member if they believe circumstances warrant. The faculty member will determine whether the Incomplete is appropriate to award or not. The following processes must be followed when awarding a student an I grade.

1. Prior to the end of the semester in which the "I" is to be awarded, the student must meet with the instructor to determine the assignments and exams that must be completed prior to the deadline date. This meeting can occur virtually or in person. The instructor should complete the Report of Incomplete Grade form.
2. The faculty member will complete the form, including all requirements to complete the course and the due date, sign (by typing in name) and then email it to the student. The student will then complete his/her section, sign (by typing in name), and return the completed form to the faculty member to complete the agreement. A copy of the fully completed form can then be emailed by the faculty member to the student and the department chair for each grade of Incomplete that the faculty member submits at the end of the semester.
3. The student must complete all remaining work by the date specified on the form above. This date is determined by the instructor in collaboration with the student, but it may not be later than the final withdrawal deadline in the subsequent long semester.
4. Students will retain access to the course Blackboard page through the subsequent semester in order to submit work and complete the course. Students will be able to log on to Blackboard and have access to the course section materials, assignments, and grades from the course and semester in which the Incomplete was awarded.
5. When the student completes the required work by the Incomplete deadline, the instructor will submit an electronic Grade Change Form to change the student's performance grade from an "I" to the earned grade of A, B, C, D, or F.

If an Incomplete is not resolved by the deadline, the grade automatically converts to an "F." Approval to carry an Incomplete for longer than the following semester or session deadline is not frequently granted."

Requests for incompletes must be submitted by the following dates:

- **Deadline for Fall Semester: Second Friday in November**
- Deadline for Spring Semester: Friday following Spring Break
- Deadline for Summer Semester: Friday following the 4th of July

In all cases an incomplete cannot be requested unless 1/2 of the required coursework has been completed. **For HITT 2430, you must have completed the following:** Exams 1 - 7 and all assignments for the chapters covered in those exams.

Austin Community College COVID-19 Return to Campus Health and Safety Protocols

Can be found at: <https://drive.google.com/file/d/1TDaboZe7CSzu7KyBvflHzR2Rv4VOZDj0/view>

College Policies and Student Support Services

For college policies and student support services, please visit

<https://docs.google.com/document/d/1fieLrHTt3zH12JFwsYghVP83RP6yTY80/edit>

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SCHEDULE:

Pease see the following Schedule for this Fall 2025 Course.



Course Outline/Calendar

Fall 2025: 08-25-25 to 12-14-25

Please note that schedule changes may occur during the semester. Any changes will be posted as a Blackboard Announcement.

WEEK/ DATES	Topic Areas	READING & OTHER ASSIGNMENTS (due the following Sunday by 10 pm) **Enroll in MindTap via information in Blackboard.
Week 1 8/25 to 8/31	Orientation Syllabus and Schedule Chapter 1 Core Concepts of Disease	Go to: Learn it, Study it, Apply it... Read Ch 1 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 1 Test in MindTap</i>
Week 2 9/1 to 9/7	Chapter 2 Mechanism of Disease	Go to: Learn it, Study it, Apply it... Read Ch 2 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 2 Test in MindTap</i>
Week 3 9/8 to 9/14	Chapter 3 Core Concepts of Pharmacology	Go to: Learn it, Study it, Apply it... Read Ch 3 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 3 Test in MindTap</i>
Week 4 9/15 to 9/21	Chapter 4 Drug Administration and Dosage Terms	Go to: Learn it, Study it, Apply it... Read Ch 4 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 4 Test in MindTap</i>
Week 5 9/22 to 9/28	Chapter 5 Cancer and Antineoplastic Pharmacology	Go to: Learn it, Study it, Apply it... Read Ch 5 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 5 Test in MindTap</i>
Week 6 9/29 to 10/5	Chapter 6 Pathopharmacology of the Musculoskeletal System	Go to: Learn it, Study it, Apply it... Read Ch 6 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 6 Test in MindTap</i>



WEEK/ DATES	Topic Areas	READING & OTHER ASSIGNMENTS (due the following Sunday by 10 pm) **Enroll in MindTap via information in Blackboard.
Week 7 10/6/ to 10/12	Chapter 7 Pathopharmacology of the Integumentary System	Go to: Learn it, Study it, Apply it... Read Ch 7 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 7 Test in MindTap</i>
Week 8 10/13 to 10/19	Chapter 8 Gastrointestinal Diseases and Medications	Go to: Learn it, Study it, Apply it... Read Ch 8 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 8 Test in MindTap</i>
Week 9 10/20 to 10/26	Chapter 9 Pathopharmacology of the Endocrine System	Go to: Learn it, Study it, Apply it... Read Ch 9 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 9 Test in MindTap</i>
Week 10 10/27 to 11/02	Chapter 10 Pathopharmacology of the Urinary System	Go to: Learn it, Study it, Apply it... Read Ch 10 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Ch 10 Test in MindTap</i>
Week 11 11/03 to 11/09	Chapter 11 Pathopharmacology of the Respiratory System	Go to: Learn it, Study it, Apply it... Read Ch 11 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Chapter 11 Test in MindTap</i>
Week 12 11/10 to 11/16 FINAL WITHDRAWAL DATE: 11-16-25	Ch 12 Pathopharmacology of the Cardiovascular System	Go to: Learn it, Study it, Apply it... Read Ch 12 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Ch 12 Test in MindTap</i>



WEEK/ DATES	Topic Areas	READING & OTHER ASSIGNMENTS (due the following Sunday by 10 pm) **Enroll in MindTap via information in Blackboard.
Week 13 11/17 to 11/23	Ch 13 Pathopharmacology of the Nervous System	Go to: Learn it, Study it, Apply it... Read Ch 13 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Ch 13 Test in MindTap</i>
Week 14 11/24 to 11/30	Ch 14 Pathopharmacology of the Eyes and Ears	Go to: Learn it, Study it, Apply it... Read Ch 14 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Ch 14 Test in MindTap</i>
Week 15 12/01 to 12/7	Ch 15 Pathopharmacology of the Reproductive System	Go to: Learn it, Study it, Apply it... Read Ch 15 Complete the "Counts towards Grade" Chapter Activities and Quiz in MindTap <i>Take Ch 15 Test in MindTap</i>
Week 16 12/8 to 12/14	Check all work for completion!	