

Pre-requisites

Students must provide documentation of a passing grade of "C" or above in each of these course prerequisites before taking this course:

4 hours of Anatomy & Physiology
MDCA 1409 or BIOL 2401
BIOL 2304 or BIOL 2101 and

1 – 3 hours of Medical Terminology
HPRS 1106 or HPRS 1206 or HITT 1305

II. PLAN OF INSTRUCTION

MANDATORY

1. Pathophysiology for the Health Professions, Barbara Gould, Saunders, current edition.
2. Instructor-designed packets specific to each coursee, current edition
3. Internet access and ability to access Blackboard

RECOMMENDED

4. A medical dictionary
5. A medical terminology textbook
6. An anatomy and physiology textbook

III. SCANS COMPETENCIES

Recently, 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 the nation's students are capable of meeting those demands.

The SCANS competencies are based on the following three foundations:

1. Basic Skills

- Uses all basic skills in learning and applying knowledge of Pathophysiology to better serve the patient
- Demonstrates ability to read assignments.
- Demonstrates ability to write thorough assignments and activities.
- Demonstrates ability to read and/or listen to lecture material and take notes.
- Demonstrates ability to speak and/or write about complex disease conditions.

2. Thinking Skills

- Uses all thinking skills are used in Pathophysiology by students preparing for exams, group work, case studies, and class discussions.
- Uses creative thinking when completing assignments.
- Demonstrates ability to make decisions on examinations and assignments.
- Demonstrates ability to problem solve when evaluating disease conditions.
- Demonstrates ability to reason why particular treatments are used to treat specific diseases.

3. Personal Qualities

- Demonstrates responsibility by completing assignments and examinations on time.
- Demonstrates integrity and honesty while completing assignments.

The following SCANS Competencies are incorporated into a Pathophysiology course based on the three foundations:

1. Resources

- Manages time by completing Pathophysiology assignments and examinations by their due dates.
- Identifies resources that should be used in classroom and homework exercises.

- Organizes classroom assignments and plans activities to achieve goals.
- Utilizes resources in completing assignments and exams effectively: reference books, computers, computer programs.
- Utilizes resources; i.e., testing centers, library, and student services to accomplish goals.
- Manages time effectively and efficiently when completing assignments.
- Manages human resources effectively and efficiently when completing assignments.

2. Interpersonal

- Participates as a proactive member of a team when doing group activities and exercises.
- Exhibits ethical behavior.
- Appreciates the knowledge and talent of other members of the group.
- Teaches other students in group discussions on particular topics.
- Obtains counseling and therapeutic information to better serve and educate clients.
- Negotiates to arrive at a clinical decision through critical thinking case studies.

3. Information

- Acquires, organizes, maintains, and evaluates information through lecture and activities for exam preparation.
- Uses computers to process information for mini-reports and case studies.
- Acquires and evaluates information by doing Internet searches for pathologic disease conditions

4. Systems

- Uses critical thinking skills to assess, formulate, and evaluate treatment regimens in treating certain disease processes.
- Understands normal anatomy and physiology of major body systems.
- Evaluates pathologic disease states in major body systems.

5. Technology

- Operates computers in relation to assignments
- Uses problem-solving skills to solve activities and case studies.
- Uses technology in classroom presentations.

IV. LEARNING ACTIVITIES

1. **Classroom courses:** Students will be presented information in a standard lecture format. Students will engage in activities and be evaluated on mastery of course content throughout the course.

PRN courses: Students will be presented information through an instructor-designed packet which includes notes and workbook activities. They will also engage in activities and be evaluated on mastery of content throughout the course.

2. The textbook and the instructor packet as well as the lecture (in classroom courses) will include all of the basic information necessary to complete the activities and projects in the course; however, students may want to conduct additional research in specific areas of particular interest.
3. Review of anatomy and physiology of major body systems is necessary where applicable in order to understand how disease processes affect these systems in a pathologic state.
4. Review questions are provided as a general guideline for information required on examinations.
3. Students are encouraged to focus on the learning objectives and the key terms at the beginning of every chapter and the study questions at the end of each chapter. Students can also focus on the "Think About" sections that are included throughout each

chapter. The CD ROM in the back of the textbook is also an excellent learning tool.

4. Students should check Blackboard several times a week for announcements and new course information.

V. COURSE RATIONALE

This course is designed to present students with a comprehensive review of human pathophysiology. It is accepted by many colleges and universities as a prerequisite for more advanced health science degree programs. At Austin Community College, it is a corequisite in the Sonography program and it is included in the degree plans for Medical Coding and Medical Assisting.

VI. COURSE OBJECTIVES

1. Identify and define basic terminology associated with pathophysiology.
2. Identify and discuss the normal anatomy and physiology of the body.
3. Identify and discuss the structure and function of each major body system.
4. Define and explain the basic pathogenesis of human disease.
5. Define and explain the most common disorders and diseases related to each of the major body systems.
6. Define and explain the most common etiologies and predisposing factors associated with human disease.
7. Define and discuss the basic approach to diagnosis and use of diagnostic procedures in human diseases.
8. Define and discuss the basic approaches to the prognosis of various disorders based on their pathogenesis.
9. Define and discuss the basic approaches to the treatment of various disorders based on current medical science and clinical practice.

VII. TESTING REQUIREMENTS

1. Five (5) unit examinations are required. A grade must be recorded for each of the five unit exams in order to receive a final course grade.

2. CLASSROOM COURSES:

All unit exams are administered in the classroom.

PRN COURSES:

All unit exams must be taken in the testing center. The exams will be available in all of the testing centers (EVC, RVS, NRG, RGC, SAC, CYP, PIN, ROR, SMC, and FBG).

3. Regardless of the circumstances, if a unit theory exam is missed, a comprehensive make up exam will be offered at the end of the semester. This make up exam can only be taken at the end of the semester and can only be taken at the EVC Testing Center. The exam is comprehensive, covering material from all units and will replace the missed exam.
4. For students who perform poorly on an exam and want to improve their theory exam average, there will be an optional comprehensive make up exam. The grade made on this exam will replace the lowest and will be included when calculating the course grade. If a student takes the comprehensive make up exam and the score is lower than the lowest exam grade then the comprehensive exam grade will still be used in determining the student's final course grade based on the average of the five exams. The make up exam will be administered at the EVC Testing Center at the end of the semester. No exceptions will be granted.
5. No retakes on any unit or dosage exams will be allowed.
6. **It is the student's responsibility to keep up with dates that exams are scheduled.** Refer to the proposed class and testing schedule.

VIII. GRADING

1. The final course grade will be determined by an average of the unit exams. This represents approximately 85% of the course.
2. Approximately 15% of final course grade can be from quizzes, case studies, and other special assignments and activities.
3. The FINAL GRADE is based on the total points accumulated as follows (classroom courses):

600-540	A
539-480	B

479-420**	C
419-360	D
359 & below	F

**The minimum grade that will be accepted for credit in any of the Health Science programs at Austin Community College is "C".

IX. COURSE POLICIES

1. DISCIPLINE POLICIES

Students are expected to participate appropriately in the classroom. This includes, but is not limited to helping with exercises, demonstrations, and asking clarifying questions. Inappropriate participation, which includes but is not limited to talking during lecture, use of cell phones/pagers, and interrupting others, may disrupts the learning process and is subject to disciplinary action.

Disciplinary action may include a discussion with the instructor for the first offense, a discipline referral to the Dean of Student Services for a repeated offense, a meeting with the Department Head of Allied Health Sciences, and possible removal from the course. Please refer to the ACC Student Handbook for additional information.

2. WITHDRAWALS AND INCOMPLETES

Students are responsible for withdrawing themselves from class. Students who do not progress satisfactorily and do not keep up with the deadlines are responsible for initiating their withdrawal. If the student is failing and does not withdraw, the student will be assigned an F. No retroactive withdrawals are given.

The withdrawal deadline date is published in the Academic Calendar for each semester.

Incompletes are given at the discretion of the instructor if the student has completed one-half (1/2) of the course with a passing average (completed three theory exams).

3. ACADEMIC DISHONESTY

Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, research or self-expression. Academic work is defined as, but not limited to tests, quizzes, whether taken electronically or on paper; projects, either individual or group; classroom presentations, and homework.

All electronic devices must be turned off during all examinations. If this directive is not followed, a charge of academic dishonesty could result.

The penalty for academic dishonesty is an automatic failing grade of "F" in the course. If the student withdraws from the course after the offense, the instructor will re-instate and the failing grade given as stated.

4. OFFICE OF STUDENTS WITH DISABILITIES

Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office for Students with Disabilities on the campus where they expect to take the majority of their classes. Students are encouraged to do this three weeks before the start of the semester.

X. OTHER MISCELLANEOUS INFORMATION

All cell phones and pagers must be TURNED OFF when in class.

This class is relatively fast pace so the student should study every day and not just before the exam.

The student needs to keep up with the schedule and test due dates and meet deadlines responsibly as this is very essential in becoming a responsible health practitioner.

Remember, Pathophysiology involves a whole new language. A new language requires a lot of time and effort to learn.

XI. HINTS FOR SUCCESS IN PATHOPHYSIOLOGY

- Keep up with assignments. Do all assigned reading and practice calculations according to schedule. Playing “catch-up” is very difficult.
- Answer all review questions in detail. This will provide the majority of information needed for the unit exams.
- **REMEMBER . . .** You have an instructor who is willing to help you if you need some extra assistance. If office hours are not convenient, the instructor can refer you to someone that should be able to help with the problem you may be having with the course.
- Students need to refer to the course packet and to the blackboard site prepared by their instructor for specific course directions.

Withdrawal Date:
Holiday: