

Clinical Pathophysiology
PTHA 1321
Semester:
Course Dates:

Course Description: PTHA 1321 Clinical Pathophysiology (3-3-0).

This course is a study of the pathogenesis, prognosis, and therapeutic management of diseases and conditions that are commonly encountered in physical therapy. Prerequisites: Admission to the PTA Program.

Credit: Three semester hours

Required Textbooks:

McConnell, Thomas H., *The Nature of Disease Pathology for the Health Professions*, Lippincott Williams & Wilkins, 2007

Course Time/Location:

Instructors:

Office Hours/Location

Phone:

Email

Website:

Arranging conferences/appointments

Program student learning outcomes

1. Upon completion of the second clinical course, the student will demonstrate completion of all 12 entry level skills in the professional behaviors section of the PTA MACS (Mastery Assessment of Clinical Skills)
2. Upon completion of the third and final clinical course, the student will demonstrate completion of the entry level skills in the data collection section of the PTA MACS (Mastery Assessment of Clinical Skills)
3. Upon completion of the third and final clinical course, the student will demonstrate completion of the entry level skills in the intervention section of the PTA MACS (Mastery Assessment of Clinical Skills)
4. Upon completion of the third and final clinical course, the student will be assigned a score of entry level or better on the final progress report of the PTA MACS (Mastery Assessment of Clinical Skills).
5. Upon completion of the third and final clinical course, the student will demonstrate the skills necessary to synthesize research literature and present an inservice to clinical faculty following evidence-based practice guidelines

General Course Learning Outcomes: Upon completion of this course the student will:

1. Define terminology related to Pathophysiology.
2. Identify and explain the pathogenesis of selected diseases and conditions relevant to physical therapy.
3. Describe the structure and function of the major body systems.
4. Recognize the effects of aging, stress, immobility, drug and alcohol abuse, heredity and genetics on the body.
5. Explain the healing process including inflammation, factors affecting healing and associated complications that may occur.
6. Use knowledge to analyze and/or describe the current response to acute physiological change in patients' conditions.
7. Understand pertinent pharmacological information and identify the impact of selected drugs on physical therapy treatments.

Specific objectives will be given at the beginning of each unit. Exam questions will reflect both the general and specific objectives.

SCANS: The following SCANS competencies will be addressed in this course (See PTA Student Handbook for clarification):

Students will have multiple opportunities to: identify, organize, plan and allocate resources (Resources); exercise leadership, participate as a team, teach others and develop skills in cultural competency (Interpersonal) acquire and use information using oral, written and multi-media methods (Information); work with a variety of technologies (Technology); read, write, perform mathematical operations, listen and speak to groups (Basic Skills); think creatively, make decisions, solve problems, visualize, use varied learning techniques, analyze underlying principles of relationships and ethics (Thinking Skills); display responsibility, self-esteem, sociability, self-management, integrity and honesty (Personal Qualities).

Course Outline:

- A. Introduction to Pathophysiology, Health and Disease
- B. Disablement Model & Mechanisms of Disease
- C. Inflammation & Infection
- D. Immune System
- E. Cardiovascular System Diseases & Disorders
- F. Blood and Lymphatic Diseases & Disorders
- G. Respiratory System Diseases & Disorders
- H. Integumentary System Diseases & Disorders
- I. Musculoskeletal System Diseases & Disorders
- J. Spine Pathologies
- K. Lower Extremity Pathologies
- L. Upper Extremity Pathologies
- M. Endocrine and Metabolic System Diseases & Disorders
- N. Neoplasms, Cancer & Hospice
- O. Digestive System Diseases & Disorders
- P. Urinary System Diseases & Disorders
- Q. Reproductive System Diseases & Disorders

Course Schedule/Assignments: See handout provided on first class date and posted to Blackboard.

Attendance: There are three in-class days that are mandatory attendance. Please see the next section for the following dates: Blackboard orientation, Midterm Exam/Presentations, Final Exam/Presentations.

In Class Meeting Dates: Students will meet in the classroom with the instructor in Room 9307 on the Eastview Campus three times during the semester as follows:

Instructional/Classroom Methods: Students will be expected to become active, self-directed learners with unit material presented in a distance-learning mode on Blackboard. The material is presented utilizing computer-generated chapter outlines, external Internet links to view or listen to support information, and on-line discussion to share responses to case studies. Additionally, the course will be supported by unit-specific learning objectives, textbook readings, and supplementary assignments to assist in the completion of pathology-specific terminology, unit quizzes, and workbook activities.

Completion of Assignments Policy: Students will have the most successful learning outcome by completing the required readings, unit objectives, cases studies and discussions prior to taking each unit exam. As such, all graded assignments will need to be completed before taking the unit exams. Weekly assignments will be posted for each unit on Blackboard, with due dates clearly indicated. If a student takes an exam before submitting all assignments for that unit, the test attempt will be cleared from Blackboard. The student must turn in all assigned work then retake the exam. Point deductions for the late assignments will be deducted accordingly, please see below.

The instructor must receive all the exams and assignments through Blackboard by the due dates. All late exams and assignments will be deducted ten (10) points per day that it is late.

Students will be allowed to review all exams and assignments as needed for learning purposes. Students must complete **ALL** exams and assignments in order to complete the course. If any exams or assignments are not completed by the day that grades are due, the student will receive an incomplete in the course and will not be allowed to continue progression in the program until a grade of C or better is assigned.

All unit exams and assignments must be completed in order for the student to sit for the mid-term or final exam.

Student Assessment & Evaluation: Achievement of course learning outcomes will be based upon the following evaluation:

Unit Exams (11) @ 4 % each	44%
Midterm Exam	10%
Final Exam	10%
Poster Presentation project	12%
Case Studies	13%
Discussion Group Participation	11%
Total	100%

***Grading Scale:** As outlined in the PTA Student Handbook, the accepted grading scale for this class is:
A = 93-100 **B** = 84-92 **C** = 73- 84 **D** = 63-72 **F** = below 63

The student has one week in which to review questions missed on written exams to discuss any grade discrepancy with the instructor. After the one-week period only the instructor can initiate review of exams for grade changes for any given exam.

***Note:** A student must have a minimum written exam average of 73% for the course at the time of completion. Projects, class participation, and homework will not be included for a course grade calculation if the written exam average is less than a 73. Any student receiving a “D” or “F” must withdraw from the Physical Therapist Assistant Program, but may reapply for readmission the following year as outlined in the Student Handbook.

As per the 2010 Student Handbook, it is strongly recommended that any student earning less than an 80 on any exam should meet with the instructor 1:1 outside of class.

Statement on Students with Disabilities: Each ACC campus offers support services for students with documented disabilities. Students with disabilities who need classroom, academic or other accommodations must request them through the Office for Students with Disabilities (OSD). Students are encouraged to request accommodations when they register for courses or at least three weeks before the start of the semester, otherwise the provision of accommodations may be delayed.

Students who have received approval for accommodations from OSD for this course must provide the instructor with the ‘Notice of Approved Accommodations’ from OSD before accommodations will be provided. Arrangements for academic accommodations can only be made after the instructor receives the ‘Notice of Approved Accommodations’ from the student.

Students with approved accommodations are encouraged to submit the ‘Notice of Approved Accommodations’ to the instructor at the beginning of the semester because a reasonable amount of time may be needed to prepare and arrange for the accommodations.

Additional information about the Office for Students with Disabilities is available at <http://www.austincc.edu/support/osd/>

Academic Freedom: Institutions of higher education are conducted for the common good. The common good depends upon a search for truth and upon free expression. In this course the professor and students shall strive to

protect free inquiry and the open exchange of facts, ideas, and opinions. Students are free to take exception to views offered in this course and to reserve judgment about debatable issues. Grades will not be affected by personal views. With this freedom comes the responsibility of civility and respect for a diversity of ideas and opinions. This means that students must take turns speaking, listen to others speak without interruption and refrain from name calling or other personal attacks.

Withdrawal: It is the responsibility of each student to ensure that his or her name is removed from the roll should he or she 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 submitted before the Final Withdrawal Date. The student is also strongly encouraged to retain their copy of the withdrawal form for their records.

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 instructor may award a grade of "I" (Incomplete) if a student was unable to complete all of the objectives for the passing grade in a course. An incomplete grade cannot be carried beyond the established date in the following semester. The completion date is determined by the instructor but may not be later than the final deadline for withdrawal in the subsequent semester.

Statement on scholastic dishonesty: A student attending ACC assumes responsibility for conduct compatible with the mission of the college as an educational institution. Students have the responsibility to submit coursework that is the result of their own thought, research, or self-expression. Students must follow all instructions given by faculty or designated college representatives when taking examinations, placement assessments, tests, quizzes, and evaluations. Actions constituting scholastic dishonesty include, but are not limited to, plagiarism, cheating, fabrication, collusion, and falsifying documents.

Penalties for scholastic dishonesty will depend upon the nature of the violation and may range from lowering a grade on one assignment to an "F" in the course and/or expulsion from the college. See the Student Standards of Conduct and Disciplinary Process and other policies at:
<http://www.austincc.edu/current/needtoknow>

Student rights and responsibilities: Students at the college have the rights accorded by the U.S. Constitution to freedom of speech, peaceful assembly, petition, and association. These rights carry with them the responsibility to accord the same rights to others in the college community and not to interfere with or disrupt the educational process. Opportunity for students to examine and question pertinent data and assumptions of a given discipline, guided by the evidence of scholarly research, is appropriate in a learning environment. This concept is accompanied by an equally demanding concept of responsibility on the part of the student. As willing partners in learning, students must comply with college rules and procedures.

Safety statement: Austin Community College is committed to providing a safe and healthy environment for study and work. You are expected to learn and comply with ACC environmental, health and safety procedures and agree to follow ACC safety policies. Additional information on these can be found at <http://www.austincc.edu/ehs>. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the Emergency Procedures poster and Campus Safety Plan map in each classroom. Additional information about emergency procedures and how to sign up for ACC Emergency Alerts to be notified in the event of a serious emergency can be found at <http://www.austincc.edu/emergency/>. Please note, you are expected to conduct yourself professionally with respect and courtesy to all. Anyone who thoughtlessly or intentionally jeopardizes the health or safety of another individual will be dismissed from the day's activity, may be withdrawn from the class, and/or barred from attending future activities. You are expected to conduct yourself professionally with respect and courtesy to all. Anyone who thoughtlessly or intentionally jeopardizes the health or safety of another individual will

be immediately dismissed from the day's activity, may be withdrawn from the class, and/or barred from attending future activities.

Use of ACC Email: All College e-mail communication to students will be sent solely to the student's ACCmail account, with the expectation that such communications will be read in a timely fashion. ACC will send important information and will notify you of any college related emergencies using this account. Students should only expect to receive communication from their instructor using this account. Likewise, students should use their ACCmail account when communicating with instructors and staff. Instructions for activating an ACCmail account can be found at <http://www.austincc.edu/accmail/index.php>