BSC 2402- Anatomy and Physiology

COURSE SYLLABUS: Spring 2026

INSTRUCTOR INFORMATION

Instructor: Justin Anderton

Office Location: Commerce High School Room A 127

Office Hours:

M-F 9:28am – 10:13AM

Wednesdays: 3:30PM -4:30PM

Office Phone:

Office Fax:

University Email Address: justin.anderton@tamuc.edu

Commerce HS Email Address: justin.anderton@commerceisd.edu

Course Description:
This course will consist of a study of structures and functions of human organ systems and how these organ systems interact to create a functional organism. We will also discuss how various diseases and disorders can disrupt the proper functioning of the organ systems of the human body.

Anatomy & Physiology is a course at PJC for students entering fields in allied health sciences, psychology, physical therapy, physical education, biology, geology, ecology, anthropology, agriculture, and any student who needs a basic understanding of structure and function of the human body and who has an entry level background in biology or nursing. This course is specially designed to be completed in two semesters. The topics discussed in this course are organized so that they form a core that is suitable to satisfy the prerequisites for student advancement.

Credits: SCH = 4 (3 Lecture and 1 Lab) per week

Required Textbook(s) and Materials:
Hole's Human Anatomy and Physiology, 16th edition by Shier. A physical textbook is highly recommended but not required. McGraw-Hill Connect access code, ISBN: 978-1-264-67296-7 is necessary to complete homework and includes an ebook. In addition to a functional computer with a stable internet connection, you need a folder with loose leaf paper, a pen and colored pencils.

Course Goals and Objectives:
THECB Science Core Objectives:
Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication
Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Student Learning Outcomes (Biological Science Program-Level)
1. Demonstrate mastery of the processes of science, the scientific method and established scientific knowledge.
2. Demonstrate knowledge of basic terminology and understanding of major biological concepts.
3. Use appropriate laboratory techniques and equipment safely and proficiently.

ACGM Lecture Learning Outcomes
Upon successful completion of this course, students will:

1. Use anatomical terminology to identify and describe locations of major organs of each system covered.
2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
3. Describe the interdependency and interactions of the systems.
4. Explain contributions of organs and systems to the maintenance of homeostasis.
5. Identify causes and effects of homeostatic imbalances.
6. Describe modern technology and tools used to study anatomy and physiology.

ACGM Laboratory Learning Outcomes

Upon successful completion of this course, students will:

1. Apply appropriate safety and ethical standards.
2. Locate and identify anatomical structures.
3. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.
4. Work collaboratively to perform experiments.
5. Demonstrate the steps involved in the scientific method.
6. Communicate results of scientific investigations, analyze data and formulate conclusions.
7. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations and predictions.

Course Requirements and Evaluation:

Entering Your Course: This course utilizes the McGraw-Hill (MGH) Connect platform to deliver many assignments. Most of these MGH Connect assignments are linked for you in Blackboard under the **Course Content tab**. Your first assignment is to click on a MGH link, then you will be directed to Connect where you must **register** for the MGH Connect course. How to register is described in detail under the **Start Here Tab** in Blackboard. Once you have registered in MGH Connect you will be able to complete the

When registering in MGH Connect, you will need to enter an e-mail and password. Use your **PJC Dragon E-mail** and choose a password you will remember. The link to set up your PJC Dragon Mail is located below if you do not have yours activated yet.
http://www.parisjc.edu/pjc2/main/activate-dragonmail/

Article Summary are 10 pts each. There will be one article summary due at the end of each unit and they should run ¾ to 1 page in length. Please Follow the template that is provided for you in Blackboard.

Chapter Homework Assignments involve 12 assignments at 20pts each = 240pts. You have 2 attempts at each assignment. You should complete both attempts because the highest score will be recorded in My Grades of Blackboard and is used to calculate your final course grade. Do these assignments after reading your chapter and try your best on your first attempt. They are not timed and you can do a little work at a time and then return later. You will get detailed feedback after each question explaining anything you missed, so take notes. Homework assignments are designed to help you study for each chapter and excel on the exams. You may see some of these homework questions again on your unit exams. You may take notes to help you study. If you have a question there is an "ask the instructor" function in your homework.

Lecture Exams are predominantly multiple choice and true/false, but may include short answer questions as well.
Exam 1- Timed, 1 attempt- 60pts
Exam 2- Timed, 1 attempt- 60pts
Exam 3- Timed, 1 attempt- 60pts
Exam 4- Timed, 1 attempt- 60pts
Comprehensive final exam – Timed, 1 attempt – 100 pts

Final Exam: Make yourself a good review and you should do well. The questions on the Final Exam are not exact repeats from the homework as you may have been accustomed to in the past. **The Final Exam can replace a low or missed exam**.

Once you begin a timed assignment or exam you cannot stop the time, so be ready and make sure your internet connection is solid. Do not think you can close out and come back later! Likewise, there will not be time to search for answers. Before beginning the exam, you should study and be familiar with the concepts presented. The test stops when the time ends, regardless of whether all questions have been answered.

Virtual Labs include numerous online lab activities. These are very user friendly, enjoy them, and be sure to watch the tutorial on them. They guide you, so the key is taking your time and following directions! Most are pretty short.

Course Curve: 5 pts will be added to your total points earned if all work has been attempted and submitted. This is how course points equate to your final letter grade:

Grading Scale:

A - 90%- 100%
B - 80%- 89%
C - 70%-79%
D - 60%-69%
F – 59% and below

This is a challenging course, but you have an excellent chance of success if you complete all assignments on time and to the best of your ability. Assignments will only be reopened if the Connect system has issues or in extreme and verifiable cases approved on an individual basis, such as an unexpected hospitalization. Basically, if Connect is working, then the web page is good so make sure you have an updated computer and reliable connection to the internet for this course.

System Requirements for Connect and Browser Test: Use this link to check your computer to ensure you have all that you need to run the Connect Learning System
https://www.mheducation.com/highered/connect/support.html

Tips/Time: This course will require a significant time commitment equal to or above that of a traditional class, depending on the student. Work at your own pace but do not let due dates approach and assume you can get the work done in a day or two. Your course is set up into 4 units plus the final exam. In a standard unit, you will have 3 chapters to cover, so read and study each (take notes and pay attention to bold terms), complete the homework assignment with each chapter *(recall that some questions in the homework may reappear on your unit exams)*, complete the labs for each unit, and the unit exam covering the 3 chapters. Plan a good schedule for when you want to complete each well before the due date.

Course Policies:
Rules for ALL Written Assignments

1. 12 pt type
2. Times New Roman Font
3. Double space
4. Full citation both in the paper and a reference page (APA)
5. 1 in margins

Make-Up Work: Stay well ahead of due dates so when the unexpected occurs, you will be able to submit assessments by the due date. However, if an unanticipated emergency arises and you are unable to submit a MGH lecture assignment as scheduled, email your instructor with documentation and an explanation within 48 hours of the posted due date. At the instructor's discretion and with a 5 percent deduction per day, a student may be given permission to submit MGH homework assignments up to two weeks late. For a face to face course, if permitted, it is the student's responsibility

to schedule a makeup exam with the instructor during the instructor's office hours, and within two weeks of the exam. Make up exams may include both multiple choice and essay questions. Online students may submit exams early, but not late. **Online lab activities and online lab exams may not be submitted late.**

Most online assignments are open for you to complete, so work ahead, especially if you anticipate a scheduling conflict. Late work will not be accepted the last week of the semester. Under no circumstances may the final exam be taken late. All lab assignments and most lecture assignments must be completed by using the links provided in Blackboard to enter McGraw Hill's Connect.

Course Communication: Outside of the classroom, email is the preferred method of communication. Always use your PJC email and include your full name and course number with all correspondences. Due to federal student privacy laws, grades cannot be discussed via email. Select the My Grades tab within your course to review your grades. You can expect a reply to your email within 24 hours, Monday - Friday 8:00 am – 3:00 pm.

Class Attendance:
Class attendance is critical for the successful completion of this course. *For online courses, students must complete work in a timely manner and follow due dates.* Withdrawals must be initiated by the student.

Class Conduct:
Do not photograph or make a video or audio of the class lectures, labs or your instructor. Turn off or silence and put away all cell phones, pagers, iPods, headphones, etc. before entering the classroom/laboratory. No obscene/vulgar language will be permitted in the classroom/laboratory. Faculty reserve the right to drop a student for violations of the Student Conduct Policy as listed in the Student Handbook.

Academic Honesty:
In the pursuit of learning, it is expected that students will engage in honest academic endeavor to the highest degree of honor and integrity. Students who are found to engage in academic dishonesty through such activities as cheating on exams, plagiarism, or collusion with others will be referred to the Vice President of Student Access and Success for disciplinary action such as dismissal from the college. *These students will immediately receive a score of zero on the exam/assignment in question with no possibility of makeup work and will forego the right to receive any bonus points for the remainder of the semester. Students who are suspected of cheating due to questionable activities may be required to prove their innocence.*

Your instructor strongly discourages the use of Artificial intelligence (AI). However, AI tools are permitted in this course. To adhere to our scholarly values, students must cite any AI-generated material that informed their work (including in-text citations with quotations). Any AI tool used must also be in your reference list. Warning: AI-generated content is known to falsify information and academic citations, which should be corrected in your completed document. Using an AI tool to generate content without proper attribution qualifies as academic dishonesty.

ADA Statement
It is the policy of Paris Junior College to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, State and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to arrange an appointment with a College Success Coach in the Advising & Counseling Center to obtain a Request for Accommodations form. For more information, please refer to the Paris Junior College Catalog or Student Handbook.

Course Schedule:

UNIT	Lecture Assignments	Lab Assignments
Unit 1 1/12-1/18	Chapter 13 Smartbook assignments Chapter 13 Quiz	Chapter 13 Virtual Labs
Unit 1 1/19-1/25	Chapter 14 Smartbook assignment Chapter 14 Quiz *MLK DAY- No Lecture	Chapter 14 Virtual Labs
Unit 1 1/26-2/1	Chapter 15 Smartbook Assignments Chapter 15 Quiz Unit 1 Exam	CHapter 15 Virtual Labs Lab Practical Activity
Unit 1 2 /2- 2/8	Case Study #1 In class assignment Article Summary #1	
Unit 2 2 /9 - 2/15	Chapter 16 Smartbook Assignments Chapter 16 Quiz	CHapter 16 Virtual labs

Unit 2 2/16- 2/22	Chapter 17 Smartbook Assignment Chapter 17 Quiz	Chapter 17 Virtual Labs
Unit 2 2/23- 3/1	Chapter 18 Smartbook Assignment Chapter 18 Quiz Unit 2 Exam	Chapter 18 Virtual Labs Lab Practical activity
Unit 2 3/2- 3/8	Case Study #2 In CLass Assignment Article Summary #2	
3/9-3/15	**SPRING BREAK >>>>>>>>>>>>>>>>>>>>>>**	
Unit 3 3/16-3/22	Chapter 19 Smartbook Assignment Chapter 19 Quiz	Chapter 19 Virtual Labs
Unit 3 3/23- 3/29	Chapter 20 Smartbook Assignment Chapter 20 Quiz	Chapter 20 Virtual Labs
Unit 3 3/30- 4/5	Chapter 21 Smartbook Assignment Chapter 21 Quiz Unit 3 Exam	Chapter 21 Virtual Labs Lab Practical Activities
Unit 3 4/6- 4/12	Case Study #3 In Class Assignment Article Summary #3	
Unit 4 4/13-4/19	Chapter 22 Smartbook Assignment Chapter 22 Quiz	Chapter 22 Virtual Labs

Unit 4 4/20-4/26	Chapter 23 Smartbook Assignment Chapter 23 Quiz	Chapter 23 Virtual Labs
Unit 4 4/27- 5/3	Chapter 24 Smartbook Assignments Chapter 24 Quiz	Chapter 24 Virtual Labs Lab Practical Activities
FInal 5/4	Comprehensive Final Exam	

****Dates in the syllabus are subject to change****

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 Requirements:

https://support.zoom.us/hc/en-us/articles/201362023-Zoom-system-requirements-Windows-macOS-Linux

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

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

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.

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

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**