



## **BSc 2401-90E: Anatomy and Physiology Lecture and Lab**

### **COURSE SYLLABUS: Fall 2024**

#### **INSTRUCTOR INFORMATION**

Instructor: Jenny Hodnett

Office Location: Room 224 Caddo Mills High School

Office Hours: 7:45-8:30 am Monday-Friday

Office Phone: 903-527-3164

Fax: 903-527-4772

University Email Address: [jenny.hodnett@tamuc.edu](mailto:jenny.hodnett@tamuc.edu) [jhodnett@caddomillsisd.org](mailto:jhodnett@caddomillsisd.org)

Preferred Form of Communication: email

Communication Response Time: <24 weekday hours

#### **COURSE INFORMATION**

Textbooks:

Holes Human Anatomy and Physiology, by Welsh et al. 16th edition, ISBN: 9781264961009

You will have reading assignments from the textbook each week. I will reference the text during lecture as well. It is imperative that you rent or purchase a textbook for the course.

Human Anatomy and Physiology Lab Manual - Fetal Pig Edition, by Marieb et al. 13th edition ISBN: 9780134806365

***PLEASE NOTE: Lab Manuals CANNOT be rented from a third party. Each student MUST have a consumable lab book from which pages MUST be torn out and submitted for grading. This means that absolutely NO copies can be submitted as it violates copyright laws.***

#### **Course Description**

This class will cover the anatomy and physiology of the human body.

*The syllabus/schedule are subject to change.*

## **Student Learning Outcomes**

1. Students will understand basic terminology and concepts of human anatomy and physiology.
2. Students will demonstrate an understanding of homeostasis in the human body.
3. Students will demonstrate basic skills and knowledge that will help them achieve success in allied health science fields or upper-level science coursework.
4. Students will explain the basic structure and function of the integumentary system, skeletal system, muscular system, and nervous system.
5. Students will work safely and collaboratively in the laboratory using proper equipment and tools.
6. Students will analyze data and think critically to develop a conclusion from lab experiments.

Course Goals: To give the beginning student interested in a career in health care a conceptual and practical understanding necessary for understanding the basic structure and function of the human organism. In addition, the student will learn critical thinking skills necessary for understanding and interpreting scientific information.

## **COURSE REQUIREMENTS**

### **Minimal Technical Skills Needed**

The following are minimal technical skills required for the coursework for BSC 2401-90E:

1. Ability to use and navigate MyLeo Online (D2L Brightspace) for Texas A&M University - Commerce containing the coursework components.
2. Ability to log in to my Leo in class. This requires a second device for two factor authentication.

### **Instructional Methods**

Quizzes - We will have short quizzes periodically throughout the semester. You will be informed of these in advance.

Lab Practicals - Lab practicals will test your ability to identify structures on preserved specimens. They will also include questions that pertain to lab activities performed in class.

Exams - There will be 3 exams. These exams cannot be made up unless the absence is excused according to university policy. If the exam is excused but is not made up you will receive a zero for the exam.

Final Exam - The final exam will be comprehensive.

Lab Activity/Participation - It is imperative that you be present for both lecture and lab. Labs may not be made up unless the absence is excused according to university policy. If the lab is excused but is not made up the student will receive a zero for that lab activity.

Classroom Participation - You will begin the semester with a 100 for class participation. Points will be deducted for unexcused absences and/or cell phone usage during class.

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Lab Review Sheets - Upon the completion of most labs you will be required to complete a review sheet. These will be due at the start of the next lab session.

Case Studies - Case studies will be completed during some units.

### **Student Responsibilities or Tips for Success in the Course**

It is extremely important that you read the syllabus in its entirety and that you log in to D2L often to make sure all assignments are submitted on time. Check your email at least once a day. Keep up with the weekly readings. Test questions will be taken from the weekly readings as well as the lecture notes. Taking notes in class as well as reading the chapters are imperative. Cell phones **MUST** be put away at all times during lecture and lab. There will be zero tolerance for this.

### **GRADING**

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

Lab Practicals - 20%

Lecture Exams - 50%

Lab Activities/Review Sheets/Participation/lecture quizzes - 15%

Final Exam - 15%

### **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](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

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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](mailto: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>

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## **Interaction with Instructor Statement**

### **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

#### **Course Specific Procedures/Policies**

It is imperative that all lab safety procedures are followed. Lab dress code must be observed on lab days or you will not be allowed to participate in the lab. Cell phones should not be visible or in use during lab or lecture. Please make sure cell phones are silenced and put away.

#### **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).  
<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:

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[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](mailto: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

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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/rulesProcedure/s/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](http://www.tamuc.edu/counsel)

## **COURSE OUTLINE / CALENDAR**

### **Week 1** (August 26)

Lecture - Chapter 1 Introduction to Human Anatomy and Physiology

Lab - Handout - How Does Exercise Affect Heart Rate?

Review Sheet 1, Chapter 1 Homework, Chapter 1 Lab Report

### **Week 2** (September 3)

Lecture - Chapter 2 Chemical Basis of Life

Lab - Exercise 2 - Rat Dissection

Review Sheet 2, Chapter 2 Homework

### **Week 3** (September 9)

Lecture - Chapter 3 Cells

Lab - Exercises 3&4 - Compound Light Microscope; Cell Structure and Cell Cycle

Review sheet 3&4

### **Week 4** (September 16)

Lecture - Chapter 4 Cellular Metabolism (Energy and Enzymes/Cellular Respiration)

Lab - How Does Concentration Affect the Reaction Rates of Enzymes?

### **Week 5** (September 23)

**TEST - Chapters 1,2,3 and Lab Practical - Week 1,2,3 Labs and Rat Dissection**

Lecture - Chapter 5 Tissues

Lab - (no lab this week)

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**Week 6** (September 30)

Lecture - Chapter 6 Integumentary System

Lab - Exercise 6 Classification of Tissues Review Sheet 6 Exercise 7 The Integumentary System Review Sheet 7 (Group Rotations Lab)

**Week 7** (October 7)

Lecture - Chapter 7 Skeletal System

Lab - Review sheets 8,9,10

**Week 8** (October 14)

**TEST - Chapters 4,5,6 and Lab Practical - Week 4, 5, 6**

*BONES GROUP ASSIGNMENT - Begin*

**Week 9** (October 14)

Lecture - Chapter 9 Muscular System part 1

Lab - Exercise 12 Microscopic Anatomy of Muscle and Organization of the System Review Sheet 12

Finish Bones Group work and study bones in groups

**Week 10** (October 28)

Lecture - Chapter 9 Muscular System part 2

Lab - Cat Dissection - Muscle Identification

**Week 11** (November 4)

Lecture - Chapter 10 Nervous System 1

Lab - Cat Dissection Continued

**Week 12** (November 11)

**TEST - Chapters 7,8, 9 and Lab Practical - Bones/Cat Muscles Practical**

Lecture - Chapter 11 Nervous System; Phineas Gage Article

**Week 13** (November 18)

Lecture - Chapter 12 Senses

Lab - Cow Eye Dissection, Sheep Brain Dissection

**Week 14** (November 25)

Thanksgiving Break

**Week 15** (December 2)

**TEST - Chapters 10, 11, 12**

Lab - Senses Stations

**Week 16** (December 9-13)

**Cumulative Final Exam (NO LAB FINAL)**

Final exam will consist of questions from previous exams.

\*This schedule is subject to change at the teacher's discretion.

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