BIOL 2101
Anatomy & Physiology I
Fall 2026

CREDIT
1 Semester Credit Hours

MODE OF INSTRUCTION
Online

PREREQUISITE/CO-REQUISITE:
Passed the Reading/Writing Sections of TSI or any other accepted test. Co-requisite BIOL 2301.

COURSE DESCRIPTION
The lab provides a virtual learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses.

COURSE OBJECTIVES
Upon successful completion of this course, students will be able to:
1. Apply appropriate safety and ethical standards.
2. Locate and identify anatomical structures.
3. Appropriately utilize laboratory equipment such as microscopes, dissection tools, general labware, 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.

Initials:

Core Objectives

1. **Critical Thinking Skills:** To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. **Communication Skills:** To include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. **Empirical & Quantitative Skills:** To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. **Teamwork:** To include the ability to connect choices, actions, and consequences to ethical decision-making

INSTRUCTOR CONTACT INFORMATION

Instructor:
Email:
Office Phone:
Office Location:
Office Hours:
See Starfish for Available Office Hours Click Here for Starfish

REQUIRED TEXTBOOK AND MATERIALS

REQUIRED = Textbook - OpenStax Anatomy & Physiology Levels I and II

Anatomy and Physiology from OpenStax, Print ISBN 1938168135, Digital ISBN 1947172042

Click Here for OpenStax Anatomy & Physiology textbook

Your textbook for this class is available for free online, and you can purchase a print copy online or obtain it through Eagle Learning Essentials. Click Here for Eagle Learning Essentials

Supplemental = Textbook - WikiBooks – Human Physiology
https://en.wikibooks.org/wiki/Human_Physiology

ATTENDANCE POLICY

1. You must log into Blackboard and access this course a minimum of 3 times per week.
2. Late assignments will be accepted with a deduction as a late penalty. Students will receive a zero for incomplete assignments.
3. If you wish to drop this course, you must drop it administratively. If you do not drop the course, you will receive an F.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the Academic Calendar located on the college's Student Success web page. If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

Initials:

Tentative schedule - Instructor reserves the right to modify as needed

Week:	To Do:	Due Date:
Week 1 Introduction Aug 24th - 28th	Discussion Board: Introduction Register for McGraw Hill Virtual Labs (Information on Blackboard under "Modules" then Syllabus Quiz/Acknowledgment Join a group for Group Lab: Musculoskeletal Disorders (Information on "Modules" page) due 11.20.26	08.28.26
	Complete Introductory Materials McGraw Hill Connect Interactive Labs Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	08.30.26
Week 2 Directional Terms Elements, Cells, Tissues Aug 31st - Sep 4th	Module 1: McGraw Hill Connect Interactive Lab Activities covering Body Orientation, Tests for Macromolecules, and Microscope Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	09.06.26
Week 3 Elements, Cells, Tissues Holiday Sep 7th Sep 8th – 11th	Module 1: McGraw Hill Connect Interactive Lab Activities covering Cells and Tissues Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	09.13.26
Week 4 Integumentary System Sep 14th - 18th	Module 2: McGraw Hill Connect Interactive Lab Activities covering Integumentary System Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	09.18.26
Week 5 Skeletal System & Joints Sep 21st - 25th	Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System & Joints Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	09.27.26
Week 6 Skeletal System & Joints Sep 28th - Oct 2nd	Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System & Joints Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	10.04.26
Week 7 Skeletal System & Joints/Muscular System Oct 5th - 9th	Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System & Joints Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	10.11.26

Initials:

Week 8 Midterm Exam Oct 12th - 16th	⏰Midterm Exam *Opens 10.13.26 and closes 10.15.26* ⭕Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	10.15.26
Week 9 Muscular System Oct 19th - 23rd	⭕Module 2: McGraw Hill Connect Interactive Lab Activities covering Muscular System ⭕Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	10.25.26
Week 10 Muscular System Oct 26th - 30th	⭕Module 2: McGraw Hill Connect Interactive Lab Activities covering Muscular System ⭕Work with group members on Group Lab (Musculoskeletal Disorders) due 11.20.26	11.01.26
Week 11 Nervous System Nov 2nd - 6th	⭕Module 3: McGraw Hill Connect Interactive Lab Activities covering Nervous System ⭐**DUE** 🔜 Group Lab (Musculoskeletal Disorders) due 11.20.26	11.08.26
Week 12 Nervous System Nov 9th - 13th	⭕Module 3: McGraw Hill Connect Interactive Lab Activities covering Nervous System ⭐**DUE** 🔜 Group Lab (Musculoskeletal Disorders) due 11.20.26	11.15.26
Week 13 Nervous System Nov 16th - 20th	⭕Module 3: McGraw Hill Connect Interactive Lab Activities covering Nervous System	11.18.26
Week 14 Nov 23rd - 24th Thanksgiving Holiday Nov 25th - 27th Thanksgiving Break	⭕Work on missing assignments ⭕Sleep, rest, relax ⭕Enjoy time with family and friends ⭕Netflix, etc. ⭕Exercise ⭕Read a good book ⭕Do something nice for someone	
Week 16 **Review** Nov 30th - Dec 4th ⏰Final Exam Dec 7th - 9th	⭕Review for Final Exam (Chapters 1-16) ⭕Be sure you are caught up on all assignments ⏰FINAL EXAM *Opens 12.06.26 and Closes 12.08.65* (Chapters 1 – 16) 🎉Congratulations! You made it!! Celebrate 👏	⏰Final is *due 12.08.26 by 11:59 pm* **Final Grades must be submitted to Banner by 12.11.26 at noon**

Initials:

STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16- week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

1. Assignments (Lab Activities) = 25%
2. Quizzes MGH = 20%
3. Group Lab Project = 20%
5. Final Exam = 30%

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Total = 100%

GRADING SCALE

90-100 = A
80-89 = B
70-79 = C
60-69 = D
0 – 59 = F

TECHNICAL REQUIREMENTS

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the LIT Online Experience page. A functional broadband internet connection, such as DSL, cable, or WiFi, is necessary to maximize the use of online technology and resources.

Quizzes and Exams in this course are administered through Blackboard. Exams will be administered with Respondus **LockDown Browser + Respondus Monitor (webcam)**

Requirements to take exams include:

- A reliable computer, desktop or laptop (phones, Chromebooks, tablets, and iPads are not allowed).
- Windows: 10, 8, 7
- Mac: OS X 10.10 or higher
- Adobe Flash Player (bundled with the LockDown Browser installation)
- Web camera (internal or external) & microphone
- A reliable internet service provider. A broadband internet connection.
- A room to take the exam where you are alone (other individuals in the room are not allowed)

Watch these overview videos to understand the tools you will be using to take the exam.

Initials:

Respondus LockDown
Browser: https://www.youtube.com/watch?v=XuX8WoeAycs#action=share

Respondus Monitor: https://www.youtube.com/watch?v=hv2L8Q2NpO4 - action=share

Respondus **LockDown Browser + Respondus Monitor (webcam)**

Download Instructions:

- Select the exam in the course
- Under Quiz Requirements, you will see "To take this exam, you must use the Respondus LockDown Browser"
- Below this, you will see: "You can use the button below if you have not already downloaded LockDown Browser". Click the button to go to the download page and then follow the instructions
- Use the link to download Respondus LockDown Browser to your computer; follow the installation instructions
- Return to the exam page in Brightspace (it may still be open in another tab) and select the exam
- Select "Launch LockDown Browser"
- The exam will now start

Note: You only need to install LockDown Browser once on a computer or device. It will start automatically from then on when a quiz requires it.

Guidelines while taking an online quiz: follow these guidelines

- Ensure you're in a location where you won't be interrupted.
- Turn off all other devices (e.g., tablets, phones, second computers) and place them outside of your reach.
- Before starting the test, know how much time is available and ensure you've allotted enough time to complete it.
- Clear your desk or workspace of all external materials not permitted - books, papers, other devices.
- Remain at your computer for the duration of the test.
- If your computer, Wi-Fi, or location differs from what you used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again before the exam.
- To produce a good webcam video, do the following:
    - Avoid wearing baseball caps or hats with brims.
    - Ensure your computer or device is on a firm surface (a desk or table). Do NOT place the computer on your lap, a bed, or any other surface where the device (or you) is likely to move.
    - If using a built-in webcam, avoid readjusting the screen tilt after the webcam setup is complete.
    - Take the exam in a well-lit room, but avoid backlighting (such as sitting with your back to a window)
- Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until you complete and submit all questions.

Initials:

The following violations during testing will result in a grade of zero or reduction in points:

- Using technology or electronic devices including, but not limited to, iPads, phones, smart glasses, earbuds, smartwatches.
- Leaving the testing environment or face missing from frame or obscured.
- Noises that might indicate external help.
- Any other questionable activities indicating cheating.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504, and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is in the Eagles' Nest Room 129. It fosters a supportive and inclusive educational environment by maintaining partnerships with faculty and staff and promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please get in touch with the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand, and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. You can access the *LIT Catalog and Student Handbook* at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes that recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Instructors determine appropriate use of these technologies. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also log in to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. Students are responsible for monitoring these emails and

Initials:

Starfish information and taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES

COURSE REQUIREMENTS

- A Midterm and Final are required, with two attempts per assessment, using Respondus LockDown Browser. The final score will be an ***average of attempts***.
- Five MGH Lab quizzes, with two attempts given per assessment. The final score will be an ***average of attempts***.
- Students will complete the discussion boards.
- Students will complete a lab group project. A deduction in points will be given for completing the group project without partners.
- Late assignments, **except for the final exam,** will be accepted with a late-penalty deduction. Students will receive a zero for incomplete assignments.

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students must familiarize themselves with the institution's Academic Dishonesty Policy, available in the Student Catalog & Handbook at http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty.

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