

**202660\_BIOL 2301\_3A1**  
**Anatomy & Physiology I Lecture**  
**Summer 1 - 2026**



**LAMAR INSTITUTE**  
**OF TECHNOLOGY**

**CREDIT**

3 Semester Credit Hours

**MODE OF INSTRUCTION**

Face-to-Face

**PREREQUISITE/CO-REQUISITE:**

Passed the Reading/Writing Sections of TSI or any other accepted test.

Co-requisite Biol 2101

**\*PLEASE NOTE**

Summer courses are six weeks long but cover the *same amount of material* as courses offered during the regular semester. Because the timeline is significantly condensed, you should expect to devote substantial time each week to keep up with readings, assignments, and assessments. Consistent engagement is essential for success in this accelerated format.

**COURSE DESCRIPTION**

Anatomy and Physiology I is the first part of a two-course sequence. It is a study of the structure and function of the human body, including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous, and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

**COURSE OBJECTIVES**

Upon successful completion of this course, students will be able to:

1. Use anatomical terminology to identify and describe the 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. Identify modern technology and tools used to study anatomy and physiology.

**CORE OBJECTIVES**

1. **Critical Thinking Skills:** To include creative thinking, innovation, inquiry, 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:	Melanie Daleo
Email:	<a href="mailto:mdaleo@lit.edu">mdaleo@lit.edu</a>
Office Phone:	409-247-5323
Office Location:	MPC Building, Office 216
Office Hours:	See Starfish for Available Office Hours <a href="#">Click Here for Starfish</a>

## **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 a print copy can be purchased online or obtained through Eagle Learning Essentials. [Click Here for Eagle Learning Essentials](#)

Supplemental = Textbook - WikiBooks – Human Physiology

[https://en.wikibooks.org/wiki/Human\\_Physiology](https://en.wikibooks.org/wiki/Human_Physiology)

## **ATTENDANCE POLICY**

1. Lectures, classroom discussion, activities, and labs promote understanding of key concepts. Please try to avoid unnecessary absences. If you are absent, you must make up the work in the allotted time frame. Students must make up exams on the day they return and labs within one week of the absence, at a day and time scheduled with the instructor.
2. Late assignments will be accepted with a deduction as a late penalty, with the exception of interactive quizzes given at the beginning of class. Students will receive a zero for assignments not completed.

## **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.

## BIOL 2301 Lecture Weekly Checklist

**Summer I 2026 ~ June 1st – July 7th**

\*Tentative\* Instructor reserves the right to modify as needed

Week	In Class	Homework	Due Date
<p style="text-align: center;"><u>Week 1</u></p> <p style="text-align: center;"><b>June 1st - 4th</b></p> <p style="text-align: center;"><b>Introduction –</b></p> <p>Anatomical Terms Chemistry of Life Cellular Organization Tissue Types</p>	<ul style="list-style-type: none"> <li>• Card Sort: Regional Terms (06.02.25)</li> <li>• Goose Chase: Anatomical Terms (06.02.26)</li> <li>• Activity: Biomolecule Sort (06.03.26)</li> <li>• Organelle/Cell Activity (06.04.26)</li> <li>• Histology Speed Dating (06.05.26)</li> <li>• Look over instructions for Individual Project (Health Science Career Poster) due 06.14.26</li> <li>• Join a group for the Group Project (Muscle Video) due 06.30.26</li> </ul>	<ul style="list-style-type: none"> <li>o Syllabus Quiz</li> <li>o Video Quiz: Introduction to Anatomy &amp; Physiology (11 minutes)</li> </ul>	<p style="text-align: center;">06.07.26</p> <p style="text-align: center;">06.07.26</p>
<p style="text-align: center;"><u>Week 2</u></p> <p style="text-align: center;"><b>June 8th - 11th</b></p> <p style="text-align: center;"><b>Integumentary Skeletal</b></p>	<ul style="list-style-type: none"> <li>• Integumentary Card Sort (06.09.26)</li> <li>• Integumentary Model (06.10.26)</li> <li>• Burn Investigation (06.10.26)</li> <li>• Goose Chase: Quiz 1 Review (06.11.26)</li> <li>• Start Skeletal System Model (06.11.26)</li> </ul>	<ul style="list-style-type: none"> <li>o Discussion Board: Skin Modifications</li> <li>o Complete Individual Project (Health Science Career Poster) DUE 06.14.26</li> <li>o Work on Group Project (Muscle Video) due 06.30.26</li> <li>o Quiz 1: Chap 1 (Intro), Chap 2 (Elements), Chap 3 (Cells), Chap 4 (Tissues), Chap 5 (Integumentary) opens 06.12.26 and closes 06.14.26 11:59 pm</li> </ul>	<p style="text-align: center;">06.12.26</p> <p style="text-align: center;">06.14.26</p> <p style="text-align: center;">06.14.26</p>
<p style="text-align: center;"><u>Week 3</u></p> <p style="text-align: center;"><b>June 16<sup>th</sup> – 18<sup>th</sup></b></p> <p style="text-align: center;"><b>Holiday - June 19<sup>th</sup></b> Emancipation Day</p> <p style="text-align: center;"><b>Skeletal</b></p>	<ul style="list-style-type: none"> <li>• Types of Bones Card Sort (06.16.26)</li> <li>• Endochondral Ossification Model (06.17.26)</li> <li>• Joint Movement Card Sort (06.17.26)</li> <li>• Skeletal System Speed Dating (06.18.26)</li> <li>• Goose Chase: Skeletal System &amp; Joints (06.18.26)</li> </ul>	<ul style="list-style-type: none"> <li>o Discussion Board: Health Career Poster &amp; Comments</li> <li>o Video Quiz: What Bones Tell Us (Chapter 8) (6:26)</li> <li>o Video Quiz: Whose Bones Are These? (Chapter 8) (7:07)</li> <li>o Work on Group Project (Muscle Video) due 06.30.26</li> <li>o Midterm Exam: Chapters 6 – 9 (Skeletal System &amp; Joints) opens 06.20.26 and closes 06.22.26 11:59 pm</li> </ul>	<p style="text-align: center;">06.22.26</p> <p style="text-align: center;">06.22.26</p> <p style="text-align: center;">06.22.26</p> <p style="text-align: center;">06.22.26</p>

<p><u>Week 4</u></p> <p><b>June 22nd - 25th</b></p> <p><b>Muscular</b></p>	<ul style="list-style-type: none"> <li>● Muscle Card Sort (06.22.26)</li> <li>● Build a Muscle (06.23.26)</li> <li>● Muscle Contraction Model (06.24.26)</li> <li>● Goose Chase: Muscular System (06.25.26)</li> </ul>	<ul style="list-style-type: none"> <li>● Poke-A-Muscle Activity</li> <li>● <b>DUE</b>  Group Project (Muscle Video) due 06.30.26</li> <li>● Group Participation Form</li> </ul>	<p>06.28.26</p> <p>06.28.26</p>
<p><u>Week 5</u></p> <p><b>Jun 29th - July 2nd</b></p> <p><b>Nervous</b></p>	<ul style="list-style-type: none"> <li>● Brain/Nervous System Model (06.29.26)</li> <li>● Cranial Nerves &amp; Assessment Activity (06.30.26)</li> <li>● Goose Chase: Nervous System (07.02.26)</li> </ul>	<ul style="list-style-type: none"> <li>● <b>DUE:</b> Group Project (Muscle Video) due 06.30.26</li> <li>● WebQuest: Neurotransmitters, Drugs, &amp; Addiction</li> <li>● <b>Quiz 2: Muscular &amp; Nervous System (Chap 10-16)</b> <i>opens 07.02.26 and closes 07.03.26</i></li> </ul>	<p>06.30.26</p> <p>07.02.26</p> <p>07.03.26</p>
<p><u>Week 6</u></p> <p><b>July 6<sup>th</sup> - 7<sup>th</sup></b></p>	<ul style="list-style-type: none"> <li>● Review</li> <li>● Congratulations!! You made it!! 🎉</li> </ul>	<ul style="list-style-type: none"> <li>○ <b>Final Exam</b> <i>Opens 07.05.26 and closes 07.06.26</i></li> </ul>	<p>07.06.26</p>

**COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

- 1. Quizzes = 20%
- 2. Discussion & Participation = 10%
- 3. Individual & Group Project = 20%
- 4. Midterm & Final Exam = 30%
- 5. Assignments (Video Quizzes, etc) = 20%

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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.

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 quiz or exam in the course
- Under Quiz Requirements, you will see "To take this quiz you must use the Respondus LockDown Browser"
- Below this will appear: "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 Quiz page in Brightspace (it may still be open in another tab) and select the quiz
- Select "Launch LockDown Browser"
- The quiz or exam will now start

Note: LockDown Browser only needs to be installed once on a computer or device. It will start automatically from that point forward when a quiz requires it.

## Guidelines while taking online quizzes or exams:

- Ensure you're in a location where you won't be interrupted.
- Turn off all other devices (e.g. tablets, phones, and second computers) and place them outside of your reach.
- Before starting the test, know how much time you have and that you've allotted sufficient 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 the computer, Wi-Fi, or location is different from what was used previously for 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, or hoodies.
  - Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the computer on your lap, a bed, or 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 all questions are completed and submitted.

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

- Using technology or electronic devices, including but not limited to iPads, phones, smart glasses, earbuds, and smartwatches.
- Leaving the testing environment or the face/upper torso is missing from the frame or obscured.
- Noises that might indicate external help.
- Any other questionable activities that indicate 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 located in the Eagles' Nest Room 129 and helps foster 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 contact the Special Populations Coordinator at (409)-951-5708 or email [specialpopulations@lit.edu](mailto: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*. The *LIT Catalog and Student Handbook* may be accessed at [www.lit.edu](http://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 students both in and out of the classroom. To prepare students for their selected careers, LIT aims to guide them in the ethical use of these technologies and

to incorporate AI into classroom instruction and assignments appropriately. The appropriate use of these technologies is at the instructor's discretion. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions about the acceptable use of AI/ChatGPT in their courses.

## STARFISH

LIT uses 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 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. It is the student's responsibility to pay attention to these emails and information in Starfish and to consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

## ADDITIONAL COURSE POLICIES

1. A Midterm and Final are **required**, both using Respondus LockDown Browser, with two attempts per assessment. The final score will be an **average of both attempts**.
2. Students will complete in-person lab experiments.
3. Students will complete a group lab project.
4. Late assignments will be accepted, but a late penalty will be applied. Interactive quizzes given at the beginning of class cannot be made up. Students will receive a zero for assignments not completed.
5. Cell phones should be visible and in use only during an activity designated by the instructor. Otherwise, they should be put away, and focus should be given to completing lab activities safely. *Students who continually use their cellphones for purposes other than class will lose etiquette points or be asked to leave for the day.*
6. Students are expected to follow the guidelines for testing in the 'Respondus Academic Integrity Policy'. The following violations during testing might result in a grade of zero or a reduction in points:
  - o Using technology or electronic devices, including but not limited to iPads, phones, smart glasses, earbuds, and smartwatches.
  - o Leaving the testing environment may result in a face being missing from or obscured in the frame.
  - o Noises that might indicate external help.
  - o Any other questionable activities that indicate cheating.

## **ACADEMIC DISHONESTY**

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to 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>.

## **STUDENT EXPECTED TIME REQUIREMENTS**

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.