

BIOL 2301 Hybrid Anatomy & Physiology I Fall 2024



**LAMAR INSTITUTE
OF TECHNOLOGY**

INSTRUCTOR CONTACT INFORMATION

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Office Hours: See Starfish for Available hours
[Click Here for Starfish](#)

CREDIT

3 Semester Hours (lecture)

MODE OF INSTRUCTION

Hybrid=Face to face / Web enhanced

PREREQUISITE/CO-REQUISITE:

Prerequisite/Co-requisite: Lab course (BIOL 2101) must be taken at the same time. Can be taken face to face or fully online

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 follow systems: integumentary, skeletal, muscular, nervous, and special senses. Emphasis is on the interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

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.

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 conclusion

4. Teamwork: To include the ability to connect choices, actions, and consequences to ethical decision making

5. Personal Responsibility: To include ability to connect choices, actions, and consequences to ethical decision-making.

REQUIRED TEXTBOOK AND MATERIALS

REQUIRED = Free Textbook - OpexStax Anatomy & Physiology Levels I and II -

<https://openstax.org/details/books/anatomy-and-physiology?Book%20details>

ATTENDANCE POLICY STUDENT

1. You must log into Blackboard and access this course a minimum of 3 times per week.

1) Regular and Punctual attendance is expected for all students in all classes for which they are registered. If a student is tardy, they may enter if they do so quietly. 2) Roll will be taken every day at the beginning or end of class.

3) You are allowed 3 excused/ unexcused absences without penalty.

On the fourth absence, you will be warned. On the 5th and every subsequent absence thereafter, the student will receive a 2 points deduction from their final grade.

4) pop quizzes will be given randomly.

4. If you wish to drop this course, you must drop it administratively. If you do not drop you will receive an F for the course.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process administratively. If you stop coming to class and fail to drop the course, you will earn an "F" in the course. The final drop date with academic penalty is November 1, 2024

COURSE CALENDAR

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

1. Assignments (video quizzes)	20%
2. Discussion Participation	10%
3. Quizzes (6)	20%
4. Group/individual Project and group plan	20%
5. Exams Midterm/Final Exam	30%

Total 100%

GRADE SCALE

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

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>.

AI STATEMENT

Lamar Institute of Technology (LIT) recognizes the 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. Appropriate use of these technologies is at the discretion of the instructor. 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.

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

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, as well as 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. 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. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

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 login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

COURSE REQUIREMENTS

1. Cheating of any type will not be tolerated.
2. Complete exams on the due dates. No late exams or assignments will be accepted.
3. Student will complete a current event presentation in class.

Tentative Weekly Schedule - BIOL 2301 Fall 2024

Week:	To Do:	Due Date:
<p><u>Week 1</u></p> <p>Aug 26th - 30th</p> <p>Introduction Directional Terms Study of Life</p> <p><u>Total Video Time:</u> 18 minutes</p>	<p><input type="checkbox"/> Discussion Board 1: Introduction</p> <p><input type="checkbox"/> Discussion Board 2: Netiquette</p> <p><input type="checkbox"/> Syllabus Quiz/Syllabus Acknowledgement</p> <p><input type="checkbox"/> Video Quiz: Introduction to Anatomy & Physiology (Chapter 1) [11 minutes]</p> <p><input type="checkbox"/> Video Quiz: Directional Terms (Chapter 1) [3 minutes 15 seconds]</p> <p><input type="checkbox"/> Video Quiz: Body Planes (Chapter 1) [1m 35s]</p> <p><input type="checkbox"/> Video Quiz: Body Cavities (Chapter 1) [1m 26s]</p> <p><input type="checkbox"/> Look over instructions for Individual Project (Health Science Career Poster) due 10.18.24</p>	<p><input type="checkbox"/> 08.30.24</p> <p><input type="checkbox"/> 09.04.24</p>
<p><u>Week 2</u></p> <p>Holiday Sep 2nd Sep 3rd – 6th</p> <p>Elements, Cells, Tissues</p>	<p><input type="checkbox"/> Video Quiz: Elements of the Human Body (Chapter 2) [1 m 52 s]</p> <p><input type="checkbox"/> Video Quiz: Levels of Organization in the Body (Chapter 3) [2m 45s]</p> <p><input type="checkbox"/> Work on Individual Project (Health Science Career Poster) due 10.18.24</p>	<p><input type="checkbox"/> 09.08.24</p>

<p><u>Total Video Time:</u> 5 minutes</p>	<input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	
<p><u>Week 3</u> Sep 9th – 13th Elements, Cells, Tissues <u>Total Video Time:</u> 18 minutes</p>	<input type="checkbox"/> Video Quiz: Cell Structure (Chapter 3) [7m 22s] <input type="checkbox"/> Video Quiz: Tissues (Chapter 4) [10m 43s] <input type="checkbox"/> Work on Individual Project (Health Science Career Poster) due 10.18.24 <input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	<input type="checkbox"/> 09.13.24
<p><u>Week 4</u> Sep 16th – 20th Integumentary System <u>Total Video Time:</u> 12 minutes</p>	<input type="checkbox"/> Video Quiz: Cell Membrane Structure & Function (Chapter 5) [2m 9s] <input type="checkbox"/> Video Quiz: Integumentary System (Chapter 5) [9m 40s] <input type="checkbox"/> Quiz 1: Chapter 1 (Introduction), Chapter 2 (Elements), Chapter 3 (Cells), Chapter 4 (Tissues) <input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	<input type="checkbox"/> 09.22.24 <input type="checkbox"/> Quiz 1 opens 09.19.24 and closes 09.22.24
<p><u>Week 5</u> Sep 23rd – 27th Complete Integumentary Start Skeletal System & Joints</p>	<input type="checkbox"/> Discussion Board 4: Integumentary <input type="checkbox"/> Work on Individual Project (Health Science Career Poster) due 10.18.24 <input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	<input type="checkbox"/> 09.26.24
<p><u>Week 6</u> Sep 30th - Oct 4th Skeletal System & Joints <u>Total Video Time:</u> 18 minutes</p>	<input type="checkbox"/> Quiz 2: Chapter 5 (Integumentary) <input type="checkbox"/> Video Quiz: Skeletal (Chapter 6) [7m 59s] <input type="checkbox"/> Video Quiz: Axial vs. Appendicular Skeleton (Chapter 7) [3m 19s] <input type="checkbox"/> Video Quiz: What Bones Tell Us (Chapter 8) [6m 26s] <input type="checkbox"/> Work on Individual Project (Health Science Career Poster) due 10.18.24 <input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	<input type="checkbox"/> 10.06.24 <input type="checkbox"/> Quiz 2 opens 10.03.24 and closes 10.06.24.
<p><u>Week 7</u> Oct 7th – 11th Skeletal System & Joints <u>Total Video Time:</u> 20 minutes</p>	<input type="checkbox"/> Video Quiz: Whose Bones Are These? (Chapter 8) [7m 7s] <input type="checkbox"/> Video Quiz: Introduction to Joints (Chapter 9) [2m 52s] <input type="checkbox"/> Video Quiz: Bones and Joints (Chapter 9) [9m 22s] <input type="checkbox"/> Work on Individual Project (Health Science Career Poster) due 10.18.24 <input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	<input type="checkbox"/> 10.11.24 <input type="checkbox"/>
<p><u>Week 8</u> Oct 14th – 18th</p>	<input type="checkbox"/> Midterm Exam Opens 10.10.24 and Closes 10.13.24 (Chapters 1 - 9) <input type="checkbox"/> DUE: Individual Project-Health Science Career Poster due 10.18.24 by 11:59 pm	<input type="checkbox"/> Health Science Career Poster Project due 10.18.24

<p>Midterm Exam</p>	<input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	<input type="checkbox"/> Midterm due 10.13.24
<p><u>Week 9</u> Oct 21st – 25th</p> <p>Muscular System Total Video Time: 6 minutes</p>	<input type="checkbox"/> Video Quiz: Muscular System (Chapter 10) [5m 59s] <input type="checkbox"/> Work on Group Project (Muscle Video) due 11.13.24	<input type="checkbox"/> 10.27.24
<p><u>Week 10</u> Oct 28th – Nov 1st</p> <p>Muscular System Total Video Time: 16 minutes</p>	<input type="checkbox"/> Video Quiz: How the Muscular System Works (Chapter 11) [4m 45s] <input type="checkbox"/> Video Quiz: Muscles (Chapter 11) [10m 41s] <input type="checkbox"/> Quiz 3: Chapters 6 – 9 (Skeletal System & Joints) <input type="checkbox"/> Work with group members on Group Project (Muscles Video) due 11.13.24	<input type="checkbox"/> 11.01.24 <input type="checkbox"/> Quiz 3 opens 10.24.24 and closes 10.27.24
<p><u>Week 11</u> Nov 4th – 8th</p> <p>Nervous System Total Video Time: 10 minutes</p>	<input type="checkbox"/> Video Quiz: Nervous System (Chapter 12) [9m 22s] <input type="checkbox"/> Due SOON → Work with group members on Group Project (Muscles Video) due 11.13.24 <input type="checkbox"/> Quiz 4: Chapters 10 – 11 (Muscular System)	<input type="checkbox"/> 11.10.24 <input type="checkbox"/> Quiz 4 opens 11.07.24 and closes 11.10.24
<p><u>Week 12</u> Nov 11th – 15th</p> <p>Nervous System Total Video Time: 11 minutes</p>	<input type="checkbox"/> Video Quiz: Anatomy of the Nervous System (Chapter 13) [10m 26s] <input type="checkbox"/> DUE: Group Project-Muscles Video due 11.13.24	<input type="checkbox"/> 11.17.24
<p><u>Week 13</u> Nov 18th – 22nd</p> <p>Nervous System Total Video Time: 11 minutes</p>	<input type="checkbox"/> Video Quiz: Nervous System-Senses (Chapter 14) [10m 32s]	<input type="checkbox"/> 11.22.24 <input type="checkbox"/>
<p><u>Week 14</u> Nov 25th – 26th</p> <p>Thanksgiving Holiday Nov 27th – 29th</p> <p>Thanksgiving Break</p>	<input type="checkbox"/> Review for Final Exam (Chapters 1-16) <input type="checkbox"/> Work on missing assignments <input type="checkbox"/> Sleep, rest, relax <input type="checkbox"/> Enjoy time with family and friends <input type="checkbox"/> Netflix, etc. <input type="checkbox"/> Exercise <input type="checkbox"/> Read a good book <input type="checkbox"/> Do something nice for someone	

<p><u>Week 15</u></p> <p>Dec 2nd – 6th</p> <p>Review</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Review for Final Exam (Chapters 1 - 16) <input type="checkbox"/> Be sure you are caught up on all assignments <input type="checkbox"/> Quiz 5: Chapters 12 - 16 (Nervous System) <input type="checkbox"/> 	<p>Quiz 5 opens 12.02.24 and closes 12.06.24</p>
<p><u>Week 16</u></p> <p>Dec 9th – 11th</p> <p>Final Exam</p>	<ul style="list-style-type: none"> <input type="checkbox"/> FINAL EXAM Opens 12.06.24 and Closes 12.10.24 (Chapters 1 – 16) <input type="checkbox"/> Congratulations!! You made it!! Celebrate 😊 	<p><input type="checkbox"/> Final is <i>due</i> 12.10.24 by 11:59 pm</p>