

202560_BIOL 2301
Anatomy & Physiology I Lecture
Summer I 2025



INSTRUCTOR CONTACT INFORMATION

Instructor: Dr. Connie Grass
Email: cjgrass@lit.edu
Office Phone: 409-247-6823
Office Location: MPC 217
Office Hours: See Starfish for Available Office Hours-
[Click Here for Starfish](#)

CREDIT

1 Semester Credit Hours (3 hours lecture, 2 hours lab)

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

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

Co-requisite Biol 2101

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

REQUIRED TEXTBOOK AND MATERIALS

REQUIRED = Textbook - OpenStax Anatomy & Physiology Levels I and II – [OpenStax Anatomy & Physiology textbook](#)

Your textbook for this class is available for free online. If you prefer, you can also get a print version at a very low cost. Your book is available in web view and PDF for free. You can also choose to purchase on iBooks or get a print version via the campus bookstore or from OpenStax on Amazon.com.

You can use whichever formats you want. Web view is recommended -- the responsive design works seamlessly on any device. If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version.

Anatomy and Physiology from OpenStax, Print ISBN 1938168135, Digital ISBN 1947172042, www.openstax.org/details/anatomy-and-physiology

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. Cheating of any type will not be tolerated.
3. Late assignments will be accepted with a deduction as a late penalty. Students will receive a zero for assignments not completed.
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.
5. Internet usage- students are to use proper netiquette when participating in course email, assignment submissions and online discussions.

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 <https://lit.edu/student-success/2024-2025-college-calendar> . If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

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:

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

Total = 100%

GRADING 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>.

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 \(lit.edu\)](http://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.

Course Requirements

1. A Midterm and Final is required with two attempts given per assessment.
The final score will be an **average of attempts**.
2. Students will complete video quizzes and discussion boards for each unit.
3. Students will complete an individual project and a group lab project.
4. Late assignments will be accepted with a deduction as a late penalty. Students will receive a zero for assignments not completed.

BIOL 2301 (Tentative) Weekly Checklist Summer I 2025 June 2nd – July 8th

Week:	To Do:	Due Date:
Week 1 June 2 nd – June 6 th Introduction Directional Terms Study of Life	<ul style="list-style-type: none"> Discussion Board 1: Introduction Discussion Board: Netiquette Mandatory Syllabus Quiz due 06.06.25 Video Quiz: Introduction to Anatomy & Physiology (Chapter 1) [11 minutes] Video Quiz: Directional Terms (Chapter 1) [3 minutes 15 seconds] Video Quiz: Body Planes (Chapter 1) [1m 35s] Video Quiz: Body Cavities (Chapter 1) [1m 26s] Discussion Board 2: Regional & Directional Terms Look over instructions for Individual Project (Health Science Career Poster) due Monday 06.16.2025 Join a group for Group Project (Muscle Video) due 06.28.25 	<ul style="list-style-type: none"> 06.06.25 06.06.25 06.06.25 06.06.25 06.06.25 06.06.25 06.06.25 06.06.25
Week 2 June 9 th – June 13 th Elements, Cells, Tissues Integumentary	<ul style="list-style-type: none"> Video Quiz: Elements of the Human Body (Chapter 2) [1 m 52 s] Video Quiz: Levels of Organization in the Body (Chapter 3) [2m 45s] Video Quiz: Cell Structure (Chapter 3) [7m 22s] Video Quiz: Tissues (Chapter 4) [10m 43s] Quiz 1: Ch 1 (Introduction), Ch 2 (Elements), Ch 3 (Cells), Ch 4 (Tiss.) opens 06.10.25 & closes 06.12.25 Discussion Board 3: Integumentary Video Quiz: Integumentary System (Chapter 5) [9m 40s] Quiz 2: Chapter 5 (Integumentary) Opens 6.13.25 & Closes 06.15.25 Individual Project (Health Science Career Poster) due Monday 06.16.2025 Start working on Group Project (Muscles Video) due 06.28.2025. 	<ul style="list-style-type: none"> 06.09.25 06.11.25 06.11.25 06.12.25 06.12.25 06.12.25 06.15.25 06.15.25
Week 3 June 16 th – June 20 th Skeletal System & Joints	<ul style="list-style-type: none"> Individual Project (Health Science Career Poster) due Monday 06.16.2025 Discussion Board 4: Skeletal System Anatomy Discussion Board 5: Skeletal System/Osteoporosis Discussion Board 6: Joints Midterm Exam: Opens 06.16.25 Closes 06.20.25 Video Quiz: Skeletal (Chapter 6) [7m 59s] Video Quiz: Axial vs. Appendicular Skeleton (Ch 7) [3m 19s] Video Quiz: What Bones Tell Us (Ch 8) [6m 26s] Video Quiz: Whose Bones Are These (Ch 8) [7m 7s] Video Quiz: Introduction to Joints (Ch 9) [2m 52s] Video Quiz: Bones and Joints (Ch 9) [9m 22s] Quiz 3: Chapters 6 – 9 (Skeletal System & Joints) opens 06.22.25 closes 06.25.25 Work with group members on Group Project (Muscles Video) due 06.28.25 	<ul style="list-style-type: none"> 06.16.25 06.17.25 06.17.25 06.20.25 06.20.25 06.20.25 06.20.25 06.20.25 06.20.25 06.20.25 06.20.25 06.25.25 06.25.25

<p><u>Week 4</u></p> <p>June 23rd – 27th</p> <p>Muscular System</p>	<ul style="list-style-type: none"> ☒ Discussion Board 7: Muscular System ☒ Video Quiz: Muscular System (Ch 10) [5m 59s] ☒ Video Quiz: How the Muscular System Works (Chapter 11) [4m 45s] ☒ Video Quiz: Muscles (Ch 11) [10m 41s] ☒ Discussion Board 8: Post 2 Comments on Individual Poster Projects ☒ Quiz 4: Chapters 10 – 11 (Muscular System) Opens 06.23.25 Closes 06.26.25 ☒ Submit Group Project (Muscles Video) due 06.28.25 	<ul style="list-style-type: none"> ☒ 06.24.25 ☒ 06.25.25 ☒ 06.25.25 ☒ 06.25.25 ☒ 06.26.25 ☒ 06.28.25
<p><u>Week 5</u></p> <p>June 30th – July 4th</p> <p>Nervous System</p> <p>FINAL EXAM Week</p>	<ul style="list-style-type: none"> ☒ Discussion 9: Nervous System ☒ Discussion 10: Divisions of Nervous System ☒ Video Quiz: Nervous System (Chapter 12) [9m 22s] ☒ Video Quiz: Anatomy of the Nervous System (Chapter 13) [10m 26s] ☒ Video Quiz: Nervous System-Senses (Chapter 14) [10m 32s] ☒ Video Quiz: Nervous System-Senses (Chapter 14) [10m 32s] ☒ Quiz 5: Chapters 12 - 16 (Nervous System) Opens 07.01.25 and Closes 07.02.25 ☒ FINAL EXAM Opens 07.03.25 and Closes 07.06.25 (Chapters 10 – 16) 	<ul style="list-style-type: none"> ☒ 07.01.25 ☒ 07.01.25 ☒ 07.02.25 ☒ Final Exam due 07.06.25
<p><u>Week 6</u></p> <p>July 7th – July 8th</p>	<p>Last Class Day – Tuesday, July 8th</p> <p>Final Grades Posted by noon on July 9th</p> <p>Congratulations</p> <p>You made it! Time to Celebrate</p>	<ul style="list-style-type: none"> ☒ 07.09.25 