

202510_BIOL_2301_2A1_2B1_2C1

CREDIT

1 Semester Credit Hours (3 hours lecture, 1 hour 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 completion of this course, the student will be able to:

- Use anatomical terminology to identify and describe locations of major organs of each system covered.
- Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
- Describe the interdependency and interactions of the systems.
- Explain contributions of organs and systems to the maintenance of homeostasis.
- Identify causes and effects of homeostatic imbalances.
- Identify modern technology and tools used to study anatomy and physiology.

INSTRUCTOR CONTACT INFORMATION

Instructor: Dr. Connie Grass
Email: cjgrass@lit.edu
Office Phone: 409-247-4863
Office Location: MPC 217
Office Hours: See Starfish for Available Office Hours-
[Click Here for Starfish](#)

REQUIRED TEXTBOOK AND MATERIALS

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

Approved: **Initials/date**



**LAMAR INSTITUTE
OF TECHNOLOGY**

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 format 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.

**COURSE CALENDAR/WEEKLY CHECKLIST– BIOL 2301 (Lecture)
Spring 2025**

Week:	To Do:	Due Date:
<u>Week 1</u> Jan 21 st – 24 th	<input type="checkbox"/> Discussion Board 1: Introduction <input type="checkbox"/> Discussion Board 2: Netiquette <input type="checkbox"/> Syllabus Quiz/Syllabus Acknowledgement	<input type="checkbox"/> 01.24.25
Introduction Directional Terms Study of Life	<input type="checkbox"/> Video Quiz: Introduction to Anatomy & Physiology (Chapter 1) [11 minutes] <input type="checkbox"/> Video Quiz: Directional Terms (Chapter 1) [3 minutes 15 seconds] <input type="checkbox"/> Video Quiz: Body Planes (Chapter 1) [1m 35s]	<input type="checkbox"/> 01.26.25

<p><u>Total Video Time:</u> 18 minutes</p>	<ul style="list-style-type: none"> ☒ Video Quiz: Body Cavities (Chapter 1) [1m 26s] ☒ Discussion Board 3: Regional & Directional Terms ☒ Look over instructions for Individual Project (Health Science Career Poster) due 03.07.25 ☒ Join a group for Group Project (Muscle Video) due 04.09.25 	
<p><u>Week 2</u> Jan 27th – 31st Elements, Cells, Tissues <u>Total Video Time:</u> 5 minutes</p>	<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] ☒ Work on Individual Project (Health Science Career Poster) due 03.07.25 ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ 02.02.25
<p><u>Week 3</u> Feb 3rd – 7th Elements, Cells, Tissues <u>Total Video Time:</u> 18 minutes</p>	<ul style="list-style-type: none"> ☒ Video Quiz: Cell Structure (Chapter 3) [7m 22s] ☒ Video Quiz: Tissues (Chapter 4) [10m 43s] ☒ Quiz 1: Chapter 1 (Introduction), Chapter 2 (Elements), Chapter 3 (Cells), Chapter 4 (Tissues) ☒ Work on Individual Project (Health Science Career Poster) due 03.07.25 ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ 02.07.25 ☒ Quiz 1 opens 02.07.25 and closes 02.09.25
<p><u>Week 4</u> Feb 10th – 14th Integumentary System <u>Total Video Time:</u> 10 minutes</p>	<ul style="list-style-type: none"> ☒ Discussion Board 4: Integumentary ☒ Video Quiz: Integumentary System (Chapter 5) [9m 40s] ☒ Work on Individual Project (Health Science Career Poster) due 03.07.25 ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ 02.16.25
<p><u>Week 5</u> Feb 17th – 21st Complete Integumentary</p>	<ul style="list-style-type: none"> ☒ Quiz 2: Chapter 5 (Integumentary) ☒ Work on Individual Project (Health Science Career Poster) due 03.07.25 ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ Quiz 2 opens 02.19.25 and closes 02.21.25
<p><u>Week 6</u> Feb 24th – 28th Skeletal System & Joints <u>Total Video Time:</u> 18 minutes</p>	<ul style="list-style-type: none"> ☒ Discussion Board 5: Skeletal System Anatomy & Osteoporosis ☒ Video Quiz: Skeletal (Chapter 6) [7m 59s] ☒ Video Quiz: Axial vs. Appendicular Skeleton (Chapter 7) [3m 19s] ☒ Video Quiz: What Bones Tell Us (Chapter 8) [6m 26s] ☒ Work on Individual Project (Health Science Career Poster) due 03.07.25 ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ 03.02.25

<p align="center"><u>Week 7</u></p> <p align="center">March 3rd – 7th</p> <p align="center">Skeletal System & Joints</p> <p align="center"><u>Total Video Time:</u> 20 minutes</p>	<ul style="list-style-type: none"> ☒ Discussion Board 6: Joints ☒ Video Quiz: Whose Bones Are These? (Chapter 8) [7m 7s] ☒ Video Quiz: Introduction to Joints (Chapter 9) [2m 52s] ☒ Video Quiz: Bones and Joints (Chapter 9) [9m 22s] ☒ Quiz 3: Chapters 6 – 9 (Skeletal System & Joints) ☒ Due → Individual Project (Health Science Career Poster) due 03.07.25 by 11:59 PM ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ 03.07.25 ☒ Quiz 3 opens 03.07.25 and closes 03.09.25
<p align="center"><u>Week 8</u></p> <p align="center">Mar 10th – 14th</p> <p align="center">Spring Break</p>	<ul style="list-style-type: none"> ☒ Sleep, rest, relax ☒ Enjoy time with family and friends ☒ Netflix, etc. ☒ Exercise ☒ Read a good book ☒ Do something nice for someone 	
<p align="center"><u>Week 9</u></p> <p align="center">Mar 17th – 21st</p> <p align="center">Midterm Exam</p>	<ul style="list-style-type: none"> ☒ Midterm Exam Opens 03.19.25 and Closes 03.21.25 (Chapters 1 - 9) ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ Midterm due 03.21.25
<p align="center"><u>Week 10</u></p> <p align="center">Mar 24th – 28th</p> <p align="center">Muscular System</p> <p align="center"><u>Total Video Time:</u> 6 minutes</p>	<ul style="list-style-type: none"> ☒ Discussion Board 7: Muscular System ☒ Video Quiz: Muscular System (Chapter 10) [5m 59s] ☒ Work on Group Project (Muscle Video) due 04.09.25 	<ul style="list-style-type: none"> ☒ 03.30.25
<p align="center"><u>Week 11</u></p> <p align="center">March 31st – April 4th</p> <p align="center">Muscular System</p> <p align="center"><u>Total Video Time:</u> 16 minutes</p>	<ul style="list-style-type: none"> ☒ Video Quiz: How the Muscular System Works (Chapter 11) [4m 45s] ☒ Video Quiz: Muscles (Chapter 11) [10m 41s] ☒ Discussion Board 8: Post 2 Comments on Individual Poster Projects ☒ Due SOON → Work with group members on Group Project (Muscles Video) due 04.09.25 ☒ Quiz 4: Chapters 10 – 11 (Muscular System) 	<ul style="list-style-type: none"> ☒ 04.04.25 ☒ Quiz 4 opens 04.04.25 and closes 04.06.25
<p align="center"><u>Week 12</u></p>	<ul style="list-style-type: none"> ☒ Discussion 9: Nervous System 	<ul style="list-style-type: none"> ☒ 04.13.25

<p>April 7th – 11th</p> <p>Nervous System</p> <p><u>Total Video Time:</u> 10 minutes</p>	<ul style="list-style-type: none"> ☒ Video Quiz: Nervous System (Chapter 12) [9m 22s] ☒ Due → Work with group members on Group Project (Muscles Video) due 04.09.25 by 11:59 PM 	
<p><u>Week 13</u></p> <p>April 14th – 18th</p> <p>Nervous System</p> <p><u>Total Video Time:</u> 11 minutes</p>	<ul style="list-style-type: none"> ☒ Discussion 10: Divisions of Nervous System ☒ Video Quiz: Anatomy of the Nervous System (Chapter 13) [10m 26s] 	<ul style="list-style-type: none"> ☒ 04.20.25
<p><u>Week 14</u></p> <p>April 21st – 25th</p> <p>Nervous System</p> <p><u>Total Video Time:</u> 11 minutes</p>	<ul style="list-style-type: none"> ☒ Video Quiz: Nervous System- Action Potential (Chapter 13) [11m 43 s] 	<ul style="list-style-type: none"> ☒ 04.27.25
<p><u>Week 15</u></p> <p>April 28th – May 2nd</p> <p>Nervous System</p> <p><u>Total Video Time:</u> 11 minutes</p>	<ul style="list-style-type: none"> ☒ Video Quiz: Nervous System-Senses (Chapter 14) [10m 32s] ☒ Quiz 5: Chapters 12 - 16 (Nervous System) 	<ul style="list-style-type: none"> ☒ 05.02.25 ☒ Quiz 5 opens 05.02.25 and closes 05.04.25
<p><u>Week 16</u></p> <p>May 5th – 9th</p> <p>Review</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Review for Final Exam (Chapters 1-16) <input checked="" type="checkbox"/> Double check your grades this week. <input checked="" type="checkbox"/> Be sure you have submitted all assignments and there are no mistakes. <input checked="" type="checkbox"/> A zero will be entered for any assignments not completed and will lower your overall average.  Contact me with questions, concerns, or to make up assignments  The semester is almost over. Finish strong! 	<ul style="list-style-type: none"> ☒
<p><u>Week 17</u></p> <p>May 12th – 14th</p> <p>Final Exam</p>	<ul style="list-style-type: none"> ☒ FINAL EXAM Opens 05.10.25 and Closes 05.12.25 (Chapters 1 – 16) <p>Congratulations! You made it!! Celebrate 😊</p>	<ul style="list-style-type: none"> ☒ Final is due 05.12.25 by 11:59 PM

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COURSE EVALUATION

Final grades will be calculated according to the following criteria:

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

Total = 100%

GRADING SCALE

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

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.

ARTIFICIAL INTELLIGENCE 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

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

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.