BIOL 2302
Anatomy & Physiology II Lecture
Fall 2026

LAMAR INSTITUTE OF TECHNOLOGY

CREDIT
3 Semester Credit Hours (Hybrid)

MODE OF INSTRUCTION
Face to Face/ Web enhanced Hybrid

PREREQUISITE/CO-REQUISITE:

Pre-requisite Biol 2101 and 2301
Passed the Reading/Writing Sections of TSI or any other accepted test
Co-requisite Biol 2102

COURSE DESCRIPTION
Anatomy & Physiology II is the second part of a two-part sequence. It is a study of the structure and function of the human body, including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human develop An alphabet ent and genetics). 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 the 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 the contributions of organs and systems to the maintenance of homeostasis.
- Identify causes and effects of homeostatic imbalances.
- Describe modern technology and tools used to study anatomy and physiology.

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

Approved: BB08/21/26

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 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

ATTENDANCE POLICY

You must log into Blackboard and access this course a minimum of 3-5 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 4 excused/unexcused absences without penalty.
On the 5th and every subsequent absence thereafter, the student will receive a 2 points deduction from your final grade.
4) pop quizzes will be given randomly.
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. The last drop date is October 30 Thank you, 2026

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 Student Success web page. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

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COURSE CALENDAR
(Tentative) BIOL 2302 (Lecture) - Fall 2026

WEEK:	TO DO:	DUE DATES
Week 1 **Aug 24th - 28th** ~Introduction ~Endocrine System Total Video Time: 14 minutes	Discussion Board 1: Introduction Netiquette Discussion Board Syllabus Quiz Video Quiz: Endocrine (Chapter 17) [13m 5s] **Read OpenStax Chapter 17: Endocrine System** Look over instructions for Individual Project – Organ Poster due October 15 Join a group for Group Project – Body Systems & Disease due November 11	08.30.26
Week 2 **Aug 31st - Sep 4th** ~Endocrine System Total Video Time: 6 minutes	VQ: Fight or Flight (or Freeze) Response (Chp 17)[5m 52s] **Read OpenStax Chapter 17: Endocrine System** Start working on Individual Project – Organ Poster due 09.25.26 Start working with group members on Group Project – Body Systems & Disease	09.04.26
Week 3 **Holiday Sep 7th** **Sep 8th – 11th** ~Cardiovascular (Blood) Total Video Time: 5 minutes	VQ: Blood (Chapter 18) [1m 16s] VQ: What are Blood Types (Chapter 18) [3m 5s] **Read OpenStax Chapter 18: Blood** Work on Individual Project – Organ Poster due 09.25.26 Work with group members on Group Project – Body Systems & Disease	09.13.26
Week 4 **Sep 14th - 18th** ~Cardiovascular (Heart) Total Video Time: 4 minutes	VQ: Heart (Chapter 19) [3m 15s] **Read OpenStax Chapter 19: Heart** Work on Individual Project – Organ Poster Work with group members on Group Project – Body Systems & Disease	09.21.26
Week 5 **Sep 21st - 25th** ~Cardiovascular (Blood Vessels) Total Video Time: 10 minutes	VQ: Blood Vessels (Chapter 20) [9m 30s] QUIZ 1: Chapters 17 – 20 (Endocrine & Cardiovascular) *Opens 09.26.26 and Closes 09.28.26* **Read OpenStax Chapter 20: Blood Vessels & Circulation** **DUE** Individual Project – Organ Poster Work with group members on Group Project – Body Systems & Disease due6	09.25.26

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Week 6 **Sep 28th - Oct 2nd** ~Immune System Total Video Time: 30 minutes	VQ: Immune System 1 (Chp 21) [9m 13s] VQ: Immune System 2 (Chp 21) [9m 44s] VQ: Immune System 3 (Chp 21)[9m 37s] **Read OpenStax Chapter 21: Lymphatic & Immune System** Work with group members on Group Project – Body Systems & Disease	10.04.26
Week 7 **Oct 5th - 9th** ~Respiratory System Total Video Time: 11 minutes	VQ: How the Respiratory System Works (Chp 22) [5m 4s] VQ: How Oxygen Travels through Your Body(Chp22)[5m10s] **Read OpenStax Chapter 22: Respiratory System** Work with group members on Group Project – Body Systems & Disease	10.11.26
Week 8 **Oct 12th - 16th** Midterm Exam	MIDTERM EXAM *Opens 10.14.26 and Closes 10.16.26* (Chapters 17 – 22) Work with group members on Group Project – Body Systems & Disease	10.16.26
Week 9 **Oct 19th - 23rd** ~Digestive System Total Video Time: 10 minutes	VQ: Digestive (Chapter 23) [9m 38s] **Read OpenStax Chapter 23: Digestive System** Work with group members on Group Project – Body Systems & Disease	10.25.26
Week 10 **Oct 26th - 30th** ~Digestive System& Metabolism Total Video Time: 11 minutes	VQ: Metabolism & Nutrition (Chapter 24) [10 m 33s] **Read OpenStax Chapter 24: Metabolism & Nutrition** **DUE SOON** Work with group members on Group Project – Body Systems & Disease	11.01.26
Week 11 **Nov 2nd - 6th** ~Urinary System Total Video Time: 7 minutes	VQ: Urinary System (Chapter 25) [6m 32 s] **Read OpenStax Chapter 25: Urinary System** Due Group Project – Body Systems &	11.08.26
Week 12 **Nov 9th - 13th** ~Urinary System ~Fluids & Electrolytes Total Video Time: 2 minutes	VQ: Fluids & Electrolytes (Chap 26) [1m 12s] **Read OpenStax Chapter 26: Fluids & Electrolytes** **QUIZ 2:** Chapters 23-25 (Digestive, Metabolism, Nutrition), Chapter 25 (Urinary) & Chapter 26 (Fluids & Electrolytes) *Opens 11.14.25 and Closes 11.15.25.* *DUE*: Group Project – Body Systems & Diseases	11.13.26
Week 13 **Nov 16th - 20th**	VQ: Reproductive (Chapter 27) [10m 45s] VQ: The Surprising Effects of Pregnancy (Chapter 27) [5m 46s]	11.22.26

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~Reproductive System Total Video Time: 16 minutes	**Read OpenStax Chapter 27: Reproductive System**	
Week 14 **Nov 23rd - 24th** **Thanksgiving Holiday** **Nov 25th - 27th**	▶ Sleep, rest, relax ▶ Enjoy time with family and friends ▶ Netflix, etc. ▶ Exercise ▶ Read a good book ▶ Do something nice for someone	
Week 15 **Nov 30th - Dec 4th** ~Development & Inheritance Total Video Time: 16 minutes	VQ: Development and Inheritance (Chapter 28) **Read OpenStax Chapter 28: Development & Inheritance** Review for Final Exams	12.06.26
Week 16 ⏰ Final Exam **Dec 7th - 9th**	⏰ **FINAL EXAM** Opens 12.07.26 and Closes 12.08.26 (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**

COURSE EVALUATION

- Final grades will be calculated according to the following criteria:
- Discussion Participation 10%
- Assignments (Video Quizzes) 20%
- Chapter Quizzes 20%
- Midterm & Final Exam 30%
- Individual & Group Project 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

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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 your 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 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 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, follow these instructions:

- 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.

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- Before starting the test, know how much time is available for it, and also 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 than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to 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) are likely to move.
    - If using a built-in webcam, avoid readjusting the tilt of the screen 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 reduction in points:

- Using technology or electronic devices of any kind 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 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

Course Requirements

- A Midterm and Final is required with two attempts given per assessment and uses Respondus Lockdown Browser. The final score will be an ***average of attempts***.
- Five quizzes will be given using Respondus Lockdown Browser with two attempts given per assessment. The final score will be an ***average of attempts***.
- Students will complete video quizzes for each unit.
- Students will complete an individual project and a group project. A deduction in points will be given for completing group project without partners.

  You are required to submit your assignments before the due date.
- **I Do not accept late assignment submissions. Failure Submit your assignments before the due date will result in a zero for that assignment. Yeah**

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.

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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.

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