

BIOL 2302
Anatomy & Physiology II
Spring 2025 face to face



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 credit hours (3 hours lecture)

MODE OF INSTRUCTION

Face to face / Web enhanced

Prerequisite/Co-requisite: Pre-requisite BIOL 2301. And have passed the Reading/Writing Sections of THEA or any other accepted test. **Co-requisite;** BIOL 2102

Course Description

Anatomy and Physiology II (BIOL 2302) is the second part of a two-course 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 development 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:

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>

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

Attendance Policies

As many assignments, tests, quizzes are online it is recommended that you 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.

DROP POLICY

If you wish to drop this course, you must drop it administratively. If you stop logging-in to the course and do not complete the course drop process, then you will receive an "F" grade for the course. Last drop date with academic penalty is November 1, 2024

Internet usage- students are to use proper netiquette when participating in course email, assignment submissions and online discussions.

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	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 (for courses using Blackboard)

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:

https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy

A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

Disabilities Statement

The Americans with Disability Act of 1990 and Section 504, 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 American with Disability Act of 1990, to students with a diagnosed disability. The Special Populations Office is 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)839-2018. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](https://lit.edu/special-populations)

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 or obtained in print upon request at the Student Services Office.

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.

<https://lit.edu/student-success/starfish>

COURSE REQUIREMENTS

1. Cheating of any type will not be tolerated.
2. Student will participate in discussion boards for each of the chapters.
2. Complete exams on the due dates. No late exams or assignments will be accepted.
3. Student will complete a reading and writing assignment to be submitted online on due date. No late papers accepted.
4. Student will complete a current event presentation
5. Six (6) quizzes total; To be completed on the due dates. No late quizzes accepted.

Weekly Checklist

BIOL 2302 (Lecture) - Spring 2025

Week	Assignments	Due Dates
<p style="text-align: center;">Week 1</p> <p style="text-align: center;">Jan 21st - 24th</p> <p>Module 4: ~Introduction ~Endocrine System <u>Total Video Time:</u> 14 minutes</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Board: Introduction <input type="checkbox"/> Discussion Board: Netiquette <input type="checkbox"/> Syllabus Quiz <input type="checkbox"/> Read over Individual Project instructions - Organ Poster due 03.07.25 <input type="checkbox"/> Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> <input type="checkbox"/> 01.24.25 <input type="checkbox"/> 01.29.25 <input type="checkbox"/> 02.02.25
<p style="text-align: center;">Week 2</p> <p style="text-align: center;">Jan 27th - 31st</p> <p>Module 4: ~Endocrine System <u>Total Video Time:</u> 6 minutes</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Video Quiz: Fight or Flight (or Freeze) Response (Chapter 17) <input type="checkbox"/> Start working on Individual Project - Organ Poster due 03.07.25 <input type="checkbox"/> Start working with group members on Group Project - Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> <input type="checkbox"/> 02.02.25
<p style="text-align: center;">Week 3</p> <p style="text-align: center;">Feb 3rd - 7th</p> <p>Module 4: ~Cardiovascular (Blood) <u>Total Video Time:</u> 5 minutes</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Video Quiz: Blood (Chapter 18) <input type="checkbox"/> Work on Individual Project - Organ Poster due 03.07.25 <input type="checkbox"/> Work with group members on Group Project - Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> <input type="checkbox"/> 02.09.25
<p style="text-align: center;">Week 4</p> <p style="text-align: center;">Feb. 10th - 14th</p> <p>Module 4: ~Cardiovascular (Heart) <u>Total Video Time:</u> 14 minutes</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Video Quiz: Heart (Chapter 19) <input type="checkbox"/> Video Quiz: Blood Vessels (Chapter 20) <input type="checkbox"/> Work on Individual Project - Organ Poster due 03.07.25 <input type="checkbox"/> Work with group members on Group Project - Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> <input type="checkbox"/> 02.16.25 <input type="checkbox"/> 02.23.25
<p style="text-align: center;">Week 5</p> <p style="text-align: center;">Feb 17th -21st</p> <p>Module 4: ~Immune System <u>Total Video Time:</u> 20 minutes</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Video Quiz: Immune System 1 (Chapter 21) <input type="checkbox"/> Video Quiz: Immune System 2 (Chapter 21) <input type="checkbox"/> QUIZ 1: Chapters 17 - 20 (Endocrine & Cardiovascular) Opens 02.19.25 and Closes 02.23.25 <input type="checkbox"/> <input type="checkbox"/> Work on Individual Project - Organ 	<ul style="list-style-type: none"> <input type="checkbox"/> 03.02.25 03.09.25

	<ul style="list-style-type: none"> □ Poster due 03.07.25 □ Work with group members on Group Project - Body Systems & Disease due 04.04.25 	
<p>Week 6 Feb 24th - 28th</p> <p>Module 5: ~Immune System ~Respiratory System <u>Total Video Time:</u> 15 minutes</p>	<ul style="list-style-type: none"> □ Video Quiz: Immune System 3 (Chapter 21) □ Video Quiz: How the Respiratory System Works (Chapter 22) □ Work on Individual Project - Organ Poster due 03.07.25 □ Work with group members on Group Project - Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> □ 03.09.25 □ 03.19.25
<p>Week 7 Mar 3rd - 7th</p> <p>~Respiratory System <u>Total Video Time:</u> 6 minutes</p>	<ul style="list-style-type: none"> □ Video Quiz: How Oxygen Travels through your Body (Chapter 22) □ QUIZ 2: Chapter 21 (Immune) & Chapter 22 (Respiratory) Opens 03.04.25 and Closes 03.07.25 □ DUE: Individual Project - Organ Poster 03.07.25 □ Work with group members on Group Project - Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> □ 03.21.25 □ 03.09.25
<p>Week 8 Mar 10th -14th</p> <p>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>Week 9 Mar 17th - 21st</p>	<ul style="list-style-type: none"> □ Review for Midterm Exam □ MIDTERM EXAM Opens 03.19.25 and Closes 03.23.25 (Chapters 17 - 22) □ Work with group members on Group Project - Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> □ 03.21.25
<p>Week 10 Mar 24th - 28th</p> <p>Module 5: ~Digestive System <u>Total Video Time:</u> 10 minutes</p>	<ul style="list-style-type: none"> □ Video Quiz: Digestive (Chapter 23) □ Work with group members on Group Project - Body Systems & Disease due 04.04.25 	<ul style="list-style-type: none"> □ 03.30.25
<p>Week 11 Mar 31st - April 4th</p> <p>Module 5: ~Digestive System</p>	<ul style="list-style-type: none"> □ Video Quiz: Metabolism & Nutrition (Chapter 24) □ QUIZ 3: Chapter 23 (Digestive) & Chapter 24 (Metabolism & Nutrition) Opens 04.03.25 and Closes 04.06.25 □ Due SOON → Work with group 	<ul style="list-style-type: none"> □ 04.04.25 □ 04.06.25

~Metabolism <u>Total Video Time:</u> 11 minutes	members on Group Project – Body Systems & Disease due 04.04.25	
Week 12 April 7 th – 11 th Module 5: ~Urinary System <u>Total Video Time:</u> 7 minutes	<input type="checkbox"/> Professional Development Day! (campus closed) April 10th <input type="checkbox"/> Video Quiz: Urinary System (Chapter 25) <input type="checkbox"/> DUE → Work with group members on Group Project – Body Systems & Disease due 04.04.25	<input type="checkbox"/> 04.13.25 Campus Closed April 10th
Week 13 April 14 th – 18 th Module 5: ~Urinary System <u>Total Video Time:</u> 2 minutes	<input type="checkbox"/> Video Quiz: Fluids & Electrolytes (Chapter 26) <input type="checkbox"/> QUIZ 4: Chapter 25 (Urinary) & Chapter 26 (Fluids & Electrolytes) <i>Opens 04.17.25 and Closes 04.20.25</i>	<input type="checkbox"/> 04.18.25 <input type="checkbox"/> 04.20.25
Week 14 April 21 st – April 25 th Module 6:	<input type="checkbox"/> Video Quiz Surprising Effects of Pregnancy (Chapter 27)	<input type="checkbox"/> 04.27.25
Week 15 April 28 th – May 2 nd Module 6: ~Reproductive System (Development & Inheritance) <u>Total Video Time:</u> 151 minutes	<input type="checkbox"/> Video Quiz: Development & Inheritance (Chapter 28) <input type="checkbox"/> QUIZ 5: Chapter 27 (Reproductive) & Chapter 28 (Development & Inheritance) <i>Opens 05.01.25 and Closes 05.04.25</i>	<input type="checkbox"/> 04.27.25 <input type="checkbox"/> 05.03.25
Week 16 May 5 th – 9 th Final Exam Review	<input type="checkbox"/> Review for Final Exam <input type="checkbox"/> Make up missing assignments	
Week 17 May 12 th – 14 th ~Final Exam	FINAL EXAM <i>Opens 05.10.25 and Closes 05.12.25 (Chapters 23 – 28)</i> You made it!! Celebrate ☺ Awesome!	<input type="checkbox"/> 05.12.25



