

BIOL 2101
Anatomy & Physiology I Lab
Fall 2024



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

CREDIT

1 Semester Credit Hour

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

Passed the Reading/Writing Sections of TSI or any other accepted test. Co-requisite BIOL 2301.

COURSE DESCRIPTION

The lab provides a virtual learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses.

COURSE OBJECTIVES

Upon successful completion of this course, students will be able to:

1. Apply appropriate safety and ethical standards.
2. Locate and identify anatomical structures.
3. Appropriately utilize laboratory equipment such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.
4. Work collaboratively to perform experiments.
5. Demonstrate the steps involved in the scientific method.
6. Communicate results of scientific investigations, analyze data, and formulate conclusions.
7. Use critical-thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations, and predictions.

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

REQUIRED TEXTBOOK AND MATERIALS

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

Laboratory assignments will be completed using McGraw Hill Connect online software. Students will sign up for this service through the Blackboard course.

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 [Academic 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:

- | | |
|---------------------------------|-------|
| 1. Assignments (Lab Activities) | = 25% |
| 2. Quizzes MGH | = 25% |
| 3. Group Lab Project | = 20% |
| 5. Midterm & Final Exam | = 30% |

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>.

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 assignment 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 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 \(lit.edu\)](http://SpecialPopulations-LamarInstituteofTechnology(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 virtual labs for each chapter.
3. Students will complete 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.

Weekly Checklist

BIOL 2101 - Fall 2024 - Online

Week:	To Do:	Due Date:
WEEK 1 INTRODUCTION Aug 26 th - 30 th	<ul style="list-style-type: none"> • Discussion Board: Introduction • Register for McGraw Hill Virtual Labs (Information on Blackboard under "Modules" then • Syllabus Quiz: • Join a group for Group Lab: Musculoskeletal Disorders (Information on "Modules" page) due 11.10.24 <hr/> <ul style="list-style-type: none"> • Complete Introductory Materials McGraw Hill Connect Interactive Labs • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	<ul style="list-style-type: none"> • 08.30.24 <hr/> <ul style="list-style-type: none"> • 09.01.24
WEEK 2 DIRECTIONAL TERMS ELEMENTS, CELLS, TISSUES Labor Day Holiday 09.02.24 Sep 3 rd - 6 th	<ul style="list-style-type: none"> • Module 1: McGraw Hill Connect Interactive Lab Activities covering Body Orientation, Tests for Macromolecules, and Microscope • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	<ul style="list-style-type: none"> • 09.08.24
WEEK 3 ELEMENTS, CELLS, TISSUES Sep 9 th - 13 th	<ul style="list-style-type: none"> • Module 1: McGraw Hill Connect Interactive Lab Activities covering Cells and Tissues • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	<ul style="list-style-type: none"> • 09.15.24
WEEK 4 INTEGUMENTARY SYSTEM Sep 16 th - 20 th	<ul style="list-style-type: none"> • Module 2: McGraw Hill Connect Interactive Lab Activities covering Integumentary System • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	<ul style="list-style-type: none"> • 09.22.24
WEEK 5 SKELETAL SYSTEM & JOINTS Sep 23 rd - 27 th	<ul style="list-style-type: none"> • Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System & Joints • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	<ul style="list-style-type: none"> • 09.29.24
WEEK 6 SKELETAL SYSTEM & JOINTS Sep 30 th - Oct 4 th	<ul style="list-style-type: none"> • Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System & Joints • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	<ul style="list-style-type: none"> • 10.06.24
WEEK 7 SKELETAL SYSTEM & JOINTS / MUSCULAR SYSTEM Oct 7 th - 11 th	<ul style="list-style-type: none"> • Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System & Joints • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	<ul style="list-style-type: none"> • 10.13.24

Weekly Checklist

BIOL 2101 - Fall 2024 - Online

WEEK 8 MIDTERM EXAM Oct 14 th – 18 th	<ul style="list-style-type: none"> • Midterm Exam Opens 10.16.24 and closes 10.17.24 • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	• 10.17.24
WEEK 9 MUSCULAR SYSTEM Oct 21 st – 25 th	<ul style="list-style-type: none"> • Module 2: McGraw Hill Connect Interactive Lab Activities covering Muscular System • Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	• 10.27.24
WEEK 10 MUSCULAR SYSTEM Oct 28 th – Nov 1 st	<ul style="list-style-type: none"> • Module 2: McGraw Hill Connect Interactive Lab Activities covering Muscular System • DUE SOON → Work with group members on Group Lab (Musculoskeletal Disorders) due 11.10.24 	• 11.03.24
WEEK 11 NERVOUS SYSTEM Nov 4 th – 8 th	<ul style="list-style-type: none"> • Module 3: McGraw Hill Connect Interactive Lab Activities covering Nervous System • DUE: Group Lab (Musculoskeletal Disorders) 	• 11.10.24
WEEK 12 NERVOUS SYSTEM Nov 11 th – 15 th	<ul style="list-style-type: none"> • Module 3: McGraw Hill Connect Interactive Lab Activities covering Nervous System 	• 11.17.24
WEEK 13 NERVOUS SYSTEM Nov 18 th – 22 nd	<ul style="list-style-type: none"> • Module 3: McGraw Hill Connect Interactive Lab Activities covering Nervous System 	• 11.24.24
WEEK 14 Nov 25 th – 26 th Thanksgiving Holiday Nov 28 th – 29 th	<ul style="list-style-type: none"> • Review for Final Exam (Chapters 1-16) • Work on missing assignments • Sleep, rest, relax • Enjoy time with family and friends • Netflix, etc. • Exercise • Read a good book • Do something nice for someone 	
WEEK 15 REVIEW Dec 2 nd – 6 th	<ul style="list-style-type: none"> • Review for Final Exam (Chapters 1-16) ✓ Double check your grades this week. ✓ Be sure you have submitted all assignments and there are no mistakes. ✓ 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! 	