

**BIOL 2102**  
**Anatomy & Physiology II**  
**Spring 2024**



**LAMAR INSTITUTE**  
**OF TECHNOLOGY**

**INSTRUCTOR CONTACT INFORMATION**

Instructor: Melanie Daleo  
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Office Location: MPC 215  
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:**

Pre-requisite Biol 2101 and 2301

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

Co-requisite Biol 2302

**COURSE DESCRIPTION**

The lab provides a virtual learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics).

**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
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](http://www.openstax.org/details/anatomy-and-physiology)

Supplemental = Textbook - WikiBooks – Human Physiology  
[https://en.wikibooks.org/wiki/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.

## **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% |
| 3. Quizzes MGH                  | = 25% |
| 4. Mandatory Group Lab Project  | = 20% |
| 5. Midterm and Final Exam       | = 30% |

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**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](mailto: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](http://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 are required with two attempts given per assessment.  
The final score will be an **average of all 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 2102 – Spring 2024 - Online

Week	ASSIGNMENTS	Due Dates
<b>Week 1</b> Jan 16 <sup>th</sup> – 19 <sup>th</sup>  <b>Module 4:</b> ~Introduction ~Endocrine System	<input type="checkbox"/> Discussion Board: Introduction <input type="checkbox"/> <b>Syllabus Quiz</b> <input type="checkbox"/> <a href="#">Join a group for Group Project – Pathogen Presentation due 04.21.23</a> <input type="checkbox"/> Complete McGraw Hill Orientation/Introductory Materials	<input type="checkbox"/> 01.21.24
<b>Week 2</b> Jan 22 <sup>nd</sup> – 26 <sup>th</sup>  <b>Module 4:</b> ~Endocrine System	<input type="checkbox"/> McGraw Hill Labs: Endocrine System 1. <b>Endocrine System Overview</b> 2. <b>Effects of Blood Glucose Level</b> <a href="#">Start working with group members on Group Project – Pathogen Presentation due 04.21.23</a>	<input type="checkbox"/> 01.28.24
<b>Week 3</b> Jan 29 <sup>th</sup> – Feb 2 <sup>nd</sup>  <b>Module 4</b> ~Endocrine System	<input type="checkbox"/> McGraw Hill Labs: Endocrine System 3. <b>Thyroid Hormone &amp; Temperature Regulation</b> 4. <b>Endocrine System Lab Quiz</b> <input type="checkbox"/> <a href="#">Work with group members on Group Project – Pathogen Presentation due 04.21.23</a>	<input type="checkbox"/> 02.04.24
<b>Week 4</b> Feb 5 <sup>th</sup> – 9 <sup>th</sup>  <b>Module 4:</b> ~Cardiovascular (Blood & Heart)	<input type="checkbox"/> MGH Labs: Cardiovascular 1. <b>Blood Typing</b> 2. <b>Blood Pressure Overview</b> 3. <b>Blood Pressure Physiology</b> 4. <b>Cardiac Cycle Overview</b> <input type="checkbox"/> <a href="#">Work with group members on Group Project – Pathogen Presentation due 04.21.23</a>	<input type="checkbox"/> 02.11.24
<b>Week 5</b> Feb 12 <sup>th</sup> – 16 <sup>th</sup>  <b>Module 4:</b> ~Cardiovascular (Heart & Blood Vessels)	<input type="checkbox"/> MGH Labs: Cardiovascular 5. <b>Cardiovascular – Heart Auscultation</b> 6. <b>Cardiovascular – Pulse Rate</b> 7. <b>Cardiovascular Quiz</b> <input type="checkbox"/> <a href="#">Work with group members on Group Project – Pathogen Presentation due 04.21.23</a>	<input type="checkbox"/> 02.18.24
<b>Week 6</b> Feb 19 <sup>th</sup> – 23 <sup>rd</sup>  <b>Module 5:</b> ~Immune System	<input type="checkbox"/> MGH Labs: Immune/Lymphatic 1. <b>Innate Immunity Overview</b> 2. <b>Adaptive Immunity Overview</b> 3. <b>Differential Blood Cell Count</b> 4. <b>Immune System Quiz</b> <input type="checkbox"/> <a href="#">Work with group members on Group Project – Pathogen Presentation due 04.21.23</a>	<input type="checkbox"/> 02.25.24
<b>Week 7</b> Feb 26 <sup>th</sup> – March 1 <sup>st</sup>  <b>Module 5:</b> ~Respiratory System	<input type="checkbox"/> MGH Labs: Respiratory 1. <b>Respiratory System Overview</b> 2. <b>Mechanism of Breathing</b> 3. <b>Pulmonary Function Tests</b> 4. <b>Respiratory System Lab Quiz</b> <input type="checkbox"/> <a href="#">Work with group members on Group Project – Pathogen Presentation due 04.21.23</a>	<input type="checkbox"/> 03.03.24



## Weekly Checklist

### BIOL 2102 – Spring 2024 - Online

<p><b>Week 8</b> Mar 4<sup>th</sup> – 8<sup>th</sup> ~Midterm Exam</p>	<input type="checkbox"/> <b>MIDTERM EXAM</b> Opens 03.06.24 and Closes 03.08.24 (Chapters 17 – 22) <input type="checkbox"/> Work with group members on Group Project – Pathogen Presentation due 04.21.23	<input type="checkbox"/> 03.08.24
<p><b>Mar 11<sup>th</sup> – 15<sup>th</sup></b>  <b>Spring Break</b></p>	<input type="checkbox"/> Sleep, rest, relax <input type="checkbox"/> Enjoy time with family and friends <input type="checkbox"/> Netflix, etc. <input type="checkbox"/> Exercise <input type="checkbox"/> Read a good book <input type="checkbox"/> Do something nice for someone	
<p><b>Week 9</b> Mar 18<sup>th</sup> – 22<sup>nd</sup>  <b>Module 5:</b> ~Digestive System</p>	<input type="checkbox"/> MH Labs: Digestive and Metabolism 1. Enzymes & Digestion 2. Assignment: Digestive System Work with group members on Group Project – Pathogen Presentation due 04.21.23	<input type="checkbox"/> 03.24.24
<p><b>Week 10</b> Mar 25<sup>th</sup> – 29<sup>th</sup>  <b>Module 5:</b> ~Digestive System ~Metabolism</p>	<input type="checkbox"/> MH Labs: Digestive and Metabolism 3. Digestion Lab Quiz <input type="checkbox"/> Work with group members on Group Project – Pathogen Presentation due 04.21.23	<input type="checkbox"/> 03.30.24
<p><b>Week 11</b> April 1<sup>st</sup> – 5<sup>th</sup>  <b>Module 5:</b> ~Urinary System</p>	<input type="checkbox"/> MGH LABS: Urinary System 1. Glomerular Filtration 2. Tubular Reabsorption and SecretiOn 3. Urinalysis <input type="checkbox"/> Work with group members on Group Project – Pathogen Presentation due 04.21.22	<input type="checkbox"/> 04.06.24
<p><b>Week 12</b> April 8<sup>th</sup> – 12<sup>th</sup>  <b>Module 5:</b> ~Urinary System</p>	<input type="checkbox"/> MGH LABS: Urinary System 1. Glomerular Filtration 2. Tubular Reabsorption and SecretiOn 3. Urinalysis 4. Urinary System Quiz <input type="checkbox"/> Work with group members on Group Project – Pathogen Presentation due 04.21.23	<input type="checkbox"/> 04.13.24
<p><b>Week 13</b> April 15<sup>th</sup> – 19<sup>th</sup>  <b>Module 5:</b> ~Reproductive System (Development &amp; Inheritance)</p>	<input type="checkbox"/> MGH Labs: Reproductive 1. Development & Inheritance 2. Reproductive System 3. Reproductive System Quiz <input type="checkbox"/> <b>DUE:</b> Group Project – Pathogen Project	<input type="checkbox"/> 04.20.24
<p><b>Week 14</b></p>	<input type="checkbox"/> MGH Labs: Review of Systems 1. Fetal Pig Dissection Part 1 2. Fetal Pig Dissection Part 2	<input type="checkbox"/> 04.27.24

## Weekly Checklist

### BIOL 2102 – Spring 2024 - Online

April 22 <sup>nd</sup> – 26 <sup>th</sup>		
~Final Exam Review		
<b>Week 15 &amp; 16</b> April 29 <sup>th</sup> – May 3 <sup>rd</sup> May 6 <sup>th</sup> – 8 <sup>th</sup> Final Exam Review <b>Final Exam</b>	<input type="checkbox"/> Make up missing assignments <input type="checkbox"/> Review for Final Exam <input type="checkbox"/> <b>FINAL EXAM</b> Opens 05.03.24 and Closes 05.06.24 (Chapters 23 – 28) You made it!! Celebrate 😊	<input type="checkbox"/> 05.06.24