



WACO, TEXAS

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**COURSE SYLLABUS**

**AND**

**INSTRUCTOR PLAN**

**Anatomy and Physiology I**

**BIOL 2401.Oo82**

**Donna Ewing**

**NOTE: This is a 16-week ONLINE course.**

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

Semester Hours 4(3 lec/3lab)

### Prerequisites and/or Corequisites:

Must have passed the reading and writing portion of the TSI Assessment or have credit for INRW 0402.

### Instructor Information:

Instructor Name: Donna Ewing

E-mail: [dewing@mclennan.edu](mailto:dewing@mclennan.edu)

Office Location: Science  
Building 243

Office/Teacher Conference Hours: Monday and Wednesday 8:30-9:30am Office 243 and Zoom  
by appointment- Just request by email!

### Required Text and Materials-

All textbook materials are available through Inclusive Access in the Brightspace Course. Students do not need to purchase anything additional from the bookstore.

Required: Computer that has Chrome installed with either a built in webcam or one purchased separately. This is required for proctored exams. Reliable internet is also required.

Always have a plan B.

### Methods of Teaching and Learning:

Lectures, exams, labs, digital media and /or alternative means.

### Course Objectives and/or Competencies: Course Objectives:

- **Critical Thinking (CT)** --to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
  - *Taught through daily discussion and assessed using lecture exams with a course-wide bank of CT questions and laboratory challenge students to answer more complicated real-life questions and predict outcomes using what they've learned in lecture.*
  
- **Communications Skill (COM)**-- to include effective written, oral, and visual communication
  - *Taught through formal or informal presentation (including oral, written, and visual components), class discussion and assessment via common rubric for use of scientific language, clarity, and understanding. Also taught using scientific articles or current events within face-to-face or online discussion groups.*
  
- **Empirical & Quantitative Skills (EQS)** -- to include applications of scientific and mathematical concepts.
  - *Taught using specific laboratory exercises involving measurements and very basic data collection. (E.g., measuring arm length among each group, tallying the data, and then analyzing it by gender and height.).*
  
- **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
  - *Taught using specific laboratory or homework exercises and/or through class or online discussion of a given topic.*

### Learning Outcomes (lecture):

Upon successful completion of this course, students will:

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.

Learning Outcomes (laboratory):

Upon successful completion of this course, students will:

1. Apply appropriate safety and ethical standards.
2. Locate and identify anatomical structures.
3. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general labware, 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

## Course Schedule 2401 Spring 2022

|               | Course Unit            | Assignment and Labs                                 | Tests                                       | Due Dates @ 11:59 pm CST |
|---------------|------------------------|---|---|--------------------------|
| <b>Week 1</b> | <b>Course Unit 1</b>   | Intro to A and P<br>Smart Book-<br>Intro            | <b>START IN<br/>BRIGHSPACE</b>              |                          |
|               | <b>Chap 1</b>          | SmartBook APR-<br>Anatomy<br>Physiology<br>Revealed | <b>Test Dates<br/>Subject to<br/>change</b> | <b>Sat Jan 13</b>        |
| <b>Week 2</b> | <b>Chapter 2,3</b>     | <b>QUICK</b>  |   | <b>Wed Jan 17</b>        |
|               | <b>Chapter 4</b>       | <b>REVIEW</b>                                       |   | <b>Sat Jan 20</b>        |
|               |                        |   |   |                          |
|               |                        |   |   |                          |
| <b>Week 3</b> | <b>START IN</b>        | <b>BRIGHTSPACE</b>                                  |   |                          |
|               | <b>Tissues Chap 5-</b> | Smart Book  |   | <b>Wed Jan 24</b>        |
|               | <b>Tissues</b>         | Smart Book<br>APR, Lab                              |   | <b>Sat Jan 27</b>        |
|               |                        |   |   |                          |
| <b>Week 4</b> | <b>Course Unit 2</b>   | <b>START IN</b>                                     | <b>BRIGHTSPACE</b>                          |                          |
|               | <b>Skin Chapter 6</b>  | SmartBook   |   |                          |
|               |                        | APR   |   | <b>Sat Feb 3</b>         |
|               | <b>Reviews</b>         | <b>Chapter 1 -5<br/>emphasis on 1<br/>and 5</b>     | <b>TEST 1</b>                               | <b>Sat Feb 3</b>         |

|                 |                              |                                    |                    |   |
|-----------------|------------------------------|------------------------------------|--------------------|---|
|                 |                              |                                    |                    |   |
| <b>Week 5</b>   | <b>START IN</b>              | <b>BRIGHTSPACE</b>                 |                    |   |
|                 | <b>Bones- Chapter 7</b>      | Smart Book<br>APR                  |                    | <b>Wed Feb 7 ALL DUE ON FEB 7</b>                   |
|                 |                              | Smart Book-Part<br>2<br>Animations |                    |   |
|                 |                              |                                    |                    |   |
| <b>Week 5/6</b> | <b>LOT OF WORK</b>           | <b>THIS WEEK</b>                   | <b>START IN</b>    | <b>BRIGHTSPACE</b>                                  |
|                 | <b>Skeletal- Chapter 8</b>   | Smart Book<br>APR                  |                    | <b>Sat Feb 10<br/>Wed Feb 14</b>                    |
|                 |                              | Smart Book<br>APR                  |                    | <b>Sat Feb 17</b>                                   |
|                 |                              |                                    |                    |   |
| <b>Week 6/7</b> | <b>Course Unit 3</b>         | <b>START IN</b>                    | <b>BRIGHTSPACE</b> |   |
|                 | <b>Joints 9</b>              | Smart Book<br>APR                  |                    |   |
|                 |                              | APR,<br>Animations                 |                    | <b>Sat Feb 24</b>                                   |
|                 | Review- due 19th             |                                    | Test 2             | <b>Feb 17-19</b>                                    |
|                 | Lab Review- 21st             |                                    | Lab Exam 2         | <b>Feb 19-21</b>                                    |
| <b>Week 7/8</b> |                              |                                    |                    |   |
|                 | <b>Muscle Tissue-<br/>10</b> | SmartBook                          |                    | <b>Wed Feb 28</b>                                   |
|                 |                              | Smartibook-APR                     |                    | <b>Sat March 2</b>                                  |
|                 | <b>SPRING BREAK</b>          |                                    |                    |   |
|                 |                              |                                    |                    |   |
| <b>Week 8</b>   | <b>Muscles-11</b>            | SmartBook, APR                     |                    | <b>Wed Mar 13<br/>Sat Mar 16<br/>Mon March 18th</b> |
|                 |                              | SmartBook, APR                     |                    | <b>Mon Mar 18<sup>th</sup>- assignment</b>          |
|                 |                              |                                    |                    |   |
| <b>Week 9</b>   | Review-3/19                  | Lab Exam<br>Review-3/21            | <b>Test 3</b>      | <b>Th Mar 21- Fri Mar 19</b>                        |
|                 |                              |                                    | <b>Lab Exam 3</b>  | <b>Sat Mar 20- Sun Mar 21</b>                       |

|                |                              |                       |                |                                |
|----------------|------------------------------|-----------------------|----------------|--------------------------------|
| <b>Week 10</b> | <b>Course Unit 4</b>         |                       |                |                                |
|                |                              | SmartBook, APR        |                |                                |
|                | <b>Nervous-12</b>            | SmartBook, APR        |                | <b>Sat March 30</b>            |
|                |                              |                       |                |                                |
| <b>Week 11</b> | <b>Central Nervous- 12</b>   | Smartbook, APR        |                | <b>Wed Apr 3</b>               |
|                |                              | Smartbook, APR        |                | <b>Sat Apr 6</b>               |
|                |                              |                       |                |                                |
| <b>Week 12</b> | <b>Peripheral Nervous-13</b> | Smartbook, APR        |                | <b>Wed Apr10</b>               |
|                |                              | Smartbook, APR        |                | <b>Sat Apr13</b>               |
|                |                              |                       |                |                                |
|                | <b>Course Unit 5</b>         |                       |                |                                |
| <b>Week 13</b> | <b>Autonomic- 14</b>         | Smartbook, APR        | <b>Test 4</b>  | <b>Sat April 17</b>            |
|                | Review 4/21                  |                       | <b>Test 4</b>  | <b>Apr 19-21</b>               |
|                | <b>NEW CHAPTER</b>           | <b>DUE SAT</b>        |                |                                |
| <b>Week 14</b> | <b>Special Senses 15</b>     | Smartbook, APR        |                | <b>Wed April 24</b>            |
|                |                              |                       |                |                                |
|                |                              | Review for            | Exam           | <b>Sat April 27</b>            |
| <b>Week 15</b> |                              | <b>Final Exam</b>     | <b>Final</b>   | <b>Apr 25-27-</b>              |
|                |                              | <b>Final Lab Exam</b> | <b>Final</b>   | <b>27-Apr</b>                  |
|                |                              |                       |                |                                |
|                | <b>NOTE: Schedule</b>        | <b>subject to</b>     | <b>change.</b> | <b>Updates In Brightspace.</b> |

Connect- SmartBook, APR , Labs 100 points

Exams – 600 points

Test Reviews- 105 points

Late Work, Attendance, and Make Up Work Policies

- **Late work** will not be accepted without special permission from instructor.
- **Homework can be done until the test day for that Unit. Afterwards no makeups.**
- **Follow the due dates on the Course Schedule.**
- **Life will happen. Please contact instructor at the first sign of a crisis.**
- All work in **CONNECT** counts for points! ( Exemption – a few review assignments which are labeled review)
- **You have 2 due dates each week.** Do not wait until the weekend to get your work done. Something will happen. Plan ahead and work ahead. If you do have to go out of town on an emergency, be prepared to work on your class while gone. **You are preparing for a health field career.**

**Course Attendance/Participation Guidelines:**

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, faculty are required to drop students from their class roster prior to certifying the respective class roster. A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

Before the 60% point of the semester, a student who is absent for 25% or more of a face-to-face or blended course or who misses 25% or more of assigned work for an online course will be withdrawn from the course with a grade of W. A student may also request to be withdrawn with a grade of W before the 60% point of the semester. After the 60% point of the semester, the student may request to be withdrawn if the student is passing, or be assigned the final grade earned at the end of the semester after grades have been updated to reflect missing work.

**Student Behavioral Expectations or Conduct Policy:**

Students are expected to be respectful, professional, on time and conduct themselves as they would in their future health care program and career. Cursing, name calling, outbursts of any kind will not be tolerated. Students are expected to put forth the required effort to be successful in this class.

**This class requires your BEST EFFORT throughout the semester**

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It is fast. It is demanding. Plan accordingly.

**Let your friends and family know you are taking this class.**

**You cannot just "fit it in" your current schedule.**

**[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)**

**(<https://www.mclennan.edu/highlander-guide/policies.html>)**

The link above will provide you with information about academic integrity, dishonesty, and cheating.

Cheating is not tolerated. You are preparing for your health career. You only shortchange yourself and you may be kicked out of class. Do your own work.

10/09/2023



## **ACADEMIC RESOURCES/POLICIES**

### **Accommodations/ADA Statement:**

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit [www.mclennan.edu/disability](http://www.mclennan.edu/disability)

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

[disabilities@mclennan.edu](mailto:disabilities@mclennan.edu) (254)299-8122  
Room 319, Student Services Center

### **Title IX:**

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at [titleix@mclennan.edu](mailto:titleix@mclennan.edu) or by calling, Dr. Claudette Jackson, (Accommodations/Title IX) at (254) 299-8465. MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. Individuals may also contact the MCC Police Department at (254) 299-8911 or the MCC Student Counseling Center at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>

Additionally, Title IX provides rights and protections for pregnant and newly parenting students. Go to McLennan's Title IX webpage at [www.mclennan.edu/titleix/](http://www.mclennan.edu/titleix/). It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

**Student Support/Resources:**

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

Academic Support and Tutoring is here to help students with all their course-related needs. Specializing in one-on-one tutoring, developing study skills, and effectively writing essays. Academic Support and Tutoring can be found in the Library and main floor of the Learning Commons. This service is available to students in person or through Zoom. You can contact the Academic Support and Tutoring team via Zoom or email ([ast@mclennan.edu](mailto:ast@mclennan.edu)) by going to our website (<https://www.mclennan.edu/academic-support-and-tutoring/>)

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact either MCC CREW – Campus Resources Education Web by calling (254) 299-8561 or by emailing [crew@mclennan.edu](mailto:crew@mclennan.edu) or a Success Coach by calling (254) 299-8226 or emailing [success@mclennan.edu](mailto:success@mclennan.edu).

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to <https://calendly.com/paulannespantry-mcc/15min>.

The CREW, Success Coaches, and Paulanne's Pantry are all located on the second floor of the Student Services building in Success Coaching Services.

**MCC Foundation Emergency Grant Fund:**

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an

emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at [https://www.mclennan.edu/foundation/docs/Emergency\\_Grant\\_Application.pdf](https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf)

**MCC Academic Integrity Statement:**

Please view our [Academic integrity statement](#) for more information about academic integrity, dishonesty, and cheating. The unauthorized use of artificial intelligence (AI) for classwork can be a violation of the College's General Conduct Policy. Whether AI is authorized in a course and the parameters in which AI can be used in a course will be outlined by each instructor.

**Minimum System Requirements to Utilize MCC's D2L|Brightspace:**

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

**Minimum Technical Skills:**

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

**Backup Plan for Technology:**

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

**Email Policy:**

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails. For more information about your student email account, go to [www.mclennan.edu/studentemail](http://www.mclennan.edu/studentemail).

**Instructional Uses of Email:**

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

**Email on Mobile Devices:**

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email [Helpdesk@mclennan.edu](mailto:Helpdesk@mclennan.edu) for help.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- [Email Setup for iPhones and iPads](#)
- [Email Setup for Androids](#)

**Forwarding Emails:**

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

For more helpful information about technology at MCC, go to [MCC's Tech Support](#) or email [helpdesk@mclennan.edu](mailto:helpdesk@mclennan.edu).

**Disclaimer:**

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.