

Anatomy & Physiology II

BIOL 2402 Section 01



WACO, TEXAS

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## **COURSE SYLLABUS**

**AND**

## **INSTRUCTOR PLAN**

**Anatomy & Physiology II**

**BIOL 2402 – SECTION 01**

**Dr. John W. Seawright**

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

**COVID 19 Notice:**

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at <https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html> on any changes to these guidelines.

AN EQUAL OPPORTUNITY INSTITUTION

Spring 2022

## Anatomy & Physiology II

### BIOL 2402 Section 01

#### **Course Description:**

Anatomy and Physiology II 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, digestion (including nutrition), urinary (including fluids 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. The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestion (including nutrition), urinary (including fluids and electrolyte balance), and reproductive (including human development and genetics).

#### **Prerequisites and/or Corequisites:**

Must have passed BIOL 2401 with a grade of “C” or better.

#### **Course Notes and Instructor Recommendations:**

This course covers A LOT of material. To be successful you will need to devote a large amount of **DAILY study time**.

- 1) Come to class/log-in frequently and actively engage in class and with your classmates (through class discussions, text, email, Zoom, etc).
- 2) We will be covering 15 chapters in 16 weeks (plus exams). You will need to incorporate A&P into your daily schedule for the next 16 weeks. (It is estimated that you should spend ~3 hours a week per every credit hour. This is a 4-credit hour class. Therefore, **at minimum, you should set aside 12 hours/week to study**. This is in addition to the time you spend in class/taking your notes.
- 4) A ***focused*** study group is a great tool! Create zoom meetings with eachother to go over material. You are free to work on your homework assignments together. (Quizzes and exams will be proctored and must be completed on your own).
- 5) Zoom with or email me for help!

## Anatomy & Physiology II

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#### **Instructor Information:**

**Instructor Name:** John W. Seawright, Ph.D.

**MCC E-mail:** jseawright@mclennan.edu Office Phone Number: (254) 299-8185

**Office Location:** FO Building, Room 206

**Office/Teacher Conference Hours:** MW 11:00 am -12:00 pm (please give me a heads up), or by appointment. In the current pandemic Zoom meetings are preferred. I realize that these conference hours may not work for everybody. I will gladly work with your schedule to set up an appointment! Additionally, I am available before and after F2F classes.

**Zoom ID:** 2542998185

**Other Instruction Information:** *E-mail is the best way to contact me.* You must use your MCC student email address whenever you email me. If you do not use your MCC email address, I cannot respond. Please include your course and section number in the subject line (BIOL2402.01).

I attempt to respond to emails and calls within 24 hours, Monday-Friday (8 am -5 pm).

#### **Required Text & Materials:**

The following text and materials will be used throughout this course. **YOU DO NOT NEED TO PURCHASE THESE.** Our course is Inclusive Access and these materials are provided to you through Brightspace.

Title: *Human Anatomy & Physiology*

Author: Elaine N. Marieb and Katja Hoehn

Edition: 11th

Publisher: Pearson Learning Solutions

ISBN: 9780135161944

\*Note: If you want a physical copy of the text, you can include a loose leaf edition via your course fees or if you can find a previous edition of this text for a cheaper price, do it!

*Pearson Mastering A&P*

<https://www.pearsonmylabandmastering.com/northamerica/masteringaandp/>

Our Brightspace course shell will link directly to Pearson's Mastering A&P. To register with Pearson, click on your first HW assignment in Brightspace and follow the prompts. **AGAIN, YOU DO NOT NEED TO PURCHASE THIS!** It is already included in your course fees. If asked to provide payment, please contact me BEFORE you proceed.

**MCC Bookstore Website:** <http://www.mclennan.edu/bookstore/>

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#### **Methods of Teaching and Learning:**

Lectures, quizzes, and laboratory exercises will be used throughout the duration of this class. Additionally, a teamwork exercise in the form of a team presentation will be required.

Lectures are informal and will be used to highlight the difficult concepts of a chapter. I have provided you a base copy of notes. I suggest you print this (or make electronic notes on them) as you/we go through the content.

Lectures will focus primarily on physiology and how/why things work. The laboratory component will focus on the identification of anatomical structures and the application of physiological concepts detailed in lecture.

***Focused group study is encouraged! Zoom, email, and text with each other and me!***

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

**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 exercises that 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.*

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### Course Outline or Schedule:

M	10-Jan	Chapter 16 The Endocrine System
W	12-Jan	Chapter 16 The Endocrine System
M	17-Jan	Chapter 16 The Endocrine System
W	19-Jan	Chapter 17 Blood
<b>Sunday</b>	<b>23-Jan</b>	<b>Chapter 16 Assignments Due</b>
M	24-Jan	Chapter 17 Blood
W	26-Jan	Chapter 17 Blood
<b>Sunday</b>	<b>30-Jan</b>	<b>Chapter 17 Assignments Due</b>
M	31-Jan	Chapter 18 The Heart
W	2-Feb	Chapter 18 The Heart
M	7-Feb	Chapter 18 The Heart/ Review Chapter 16, 17, 18
W	9-Feb	Chapter 19 Blood Vessels/ <b>Chapter 18 Assignments Due</b>
<b>Sunday</b>	<b>13-Feb</b>	<b>Exam 1</b>
M	14-Feb	Chapter 19 Blood Vessels
W	16-Feb	Chapter 19 Blood Vessels
<b>Sunday</b>	<b>20-Feb</b>	<b>Chapter 19 Assignments Due</b>
M	21-Feb	Chapter 20 The Lymphatic System
W	23-Feb	<b>Midterm Lab Practical</b>
<b>Sunday</b>	<b>27-Feb</b>	<b>Chapter 20 Assignments Due</b>
M	28-Feb	Chapter 21 The Immune System
W	2-Mar	Chapter 21 The Immune System
M	14-Mar	Chapter 21 The Immune System
W	16-Mar	Chapter 22 The Respiratory System/ <b>Review Chapters 19, 20, 21/ Chapter 21 Assignments Due</b>
<b>Sunday</b>	<b>20-Mar</b>	<b>Exam 2</b>
M	21-Mar	Chapter 22 The Respiratory System
W	23-Mar	Chapter 22 The Respiratory System
<b>Sunday</b>	<b>27-Mar</b>	<b>Chapter 22 Assignments Due</b>
M	28-Mar	Chapter 23 The Digestive System
W	30-Mar	Chapter 23 The Digestive System

## Anatomy & Physiology II

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#### **Course Outline or Schedule (Continued):**

M	4-Apr	Chapter 23 The Digestive System
W	6-Apr	Chapter 25 The Urinary System
<b>Sunday</b>	<b>10-Apr</b>	<b>Chapter 23 Assignments Due</b>
M	11-Apr	Chapter 25 The Urinary System
W	13-Apr	<b>Review Chapters 22, 23, 25 / Chapter 25 Assignments Due</b>
<b>Sunday</b>	<b>17-Apr</b>	<b>Exam 3 Due</b>
M	18-Apr	Chapter 27 The Reproductive System
W	20-Apr	Chapter 28 Pregnancy and Human Development
<b>Sunday</b>	<b>24-Apr</b>	<b>Chapter 27/28 Assignments Due/ Optional Research Paper Due</b>
M	25-Apr	<b>Group Presentations/ Review</b>
W	27-Apr	<b>Final Lab Practical</b>
M	2-May	<b>Final Exam (Exam 4)</b>

#### **Please Note:**

*Chapter 26 - Fluid, Electrolyte, and Acid-Base Balance will be covered throughout the semester.*

**Exam 1:** By Sunday, February 13, 11:59 pm

**Mid-Term Lab Practical:** In class, Wednesday, February 23

**Exam 2:** By Sunday, March 20, 11:59 pm

**Last Day for Student-Initiated Withdrawals:** Friday, March 25

**Exam 3:** By Sunday, April 17, 11:59 pm

**Optional Research Paper:** By April 24, 11:59 pm

**Group Presentations:** Monday, April 25, 11:59 pm

**Final Lab Practical:** In class, Wednesday, April 27

**Final Exam (Exam 4):** By Monday May 2 (in class or by 11:59 pm).

*The above schedule is tentative and is subject to change.*

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***All quizzes and lecture exams will be proctored using Lockdown Browser and Respondus Monitor.***

When taking these assessments outside of the classroom, you will need to:

- 1) Provide your student ID** (or some form of ID so we can verify your identity)
- 2) You will be recorded via Respondus Monitor for the duration of the assessment,** after which I will review the recording.
- 3) Your video and microphone must remain on for the duration of the assessment.**
- 4) Provide a full 360 degree view of your surrounding before beginning the assessment.**
- 5) Complete the assessment without outside aid.** (These assessments are to be completed on your own, without notes, books, classmates, phone, tablet, internet, apple watch or other means that would be defined as academic dishonesty).
- 6) Complete the assessment in one sitting.** (Do not get up or leave the frame of the camera.) This requires you to plan ahead and set aside the requisite time to be undisturbed. Quizzes and Exams may be completed early. (In fact, I DO NOT recommend starting at the last possible moment).
- 7) Ensure your environment is as quiet as possible.** (Nobody should be talking to you during your assessment, there should be no music blaring, and you should not be wearing headphones).

***Failure to meet any of these criteria will result in an assessment grade of 0 and may warrant further discipline including, but not limited to: referral to Student Discipline and/or removal from the course.***

### **Course Grading Information:**

#### Point Distributions

- 4 Lecture Exams (400 pts)
- 2 Laboratory Practical Exams (200 pts)
- 1 Team Presentation (60 pts)
- 1 Teamwork Assignment (10 pts)
- 13 Chapter homeworks/assignments (260 pts)
- 10 Chapter Quizzes (200 pts)

A total of 1,130 points are available to earn in this class.

For your safety and mine, minimal assignments will pass from you to myself and vice versa. Therefore, **all graded assignments (except the lab practicals) will be conducted online via Brightspace or Pearson's Mastering A&P.**

**Lecture Exams** will consist of primarily of multiple-choice questions and matching questions but may also include true/false and short-answer/essay questions. You will take these lecture exams on your personal computer. *See the above requirements for Lockdown Browser and Respondus Monitor.*

Lecture Exam 4 will be your final exam and will consist of two parts. Part 1 will be ~ 25 questions covering Chapter 27/28. Part 2 will be ~75 questions covering Chapters 16-25.

**Note: You may use a 3" x 5" notecard on the the Final Exam.**

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**Note: If you have completed the course with only the Final Exam remaining and have an “A” average, I will exempt you from the final exam.**

**Laboratory Practical Exams** will be primarily focused on identification of anatomical structures/terminology and the application/interpretation of physiology concepts using the anatomical models, tissue, histology, graphs, etc. covered during the laboratory portion of the class. **These will be fill-in-the-blank exams. There is no word bank. Spelling counts.** There will be a mid-term (Chapter 16-20 Labs) and a final lab practical (Chapter 21- 27/28 Labs).

**Quizzes** will be administered following each chapter. The quizzes will cover **both the chapter lecture material as well as the associated labs**. All quizzes will be online through Brightspace and due no later than Sunday, 11:59 CST of the respective week. *See the above requirements for Lockdown Browser and Respondus Monitor.*

**Chapter homeworks** will be assigned for each chapter. These **homeworks are open note, open book, and open classmate**. These homeworks are designed to be completed as you go through the material. You may complete the homeworks twice, for the highest score. These homework assignments will be completed with Pearson’s Mastering A&P, which you will access through Brightspace, and due no later than 11:59 pm of the assigned day.



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An optional research paper (30 pts) is available to students. See Brightspace for details.

#### **Grading Scale:**

A = 89.5-100% (> 1010 points)

B = 79.5-89.4% (898 – 1010 points)

C = 69.5-79.4% (785 – 897 points)

D = 59.5-69.4% (672 - 784 points)

F < 59.4% (< 672 points)

**Please note:** If you make a score less than 70% on the first exam, I encourage you to meet with me via Zoom before beginning the next unit.

**I do NOT release grades by phone or email.** All grades are recorded on Brightspace and accessible to the student in real time.

#### **Late Work, Attendance, and Make Up Work Policies:**

**Late Work:** Late work is NOT accepted in this class without an MCC excused absence (See MCC Attendance Policy). If needs be, assignments may be completed and submitted before the due dates.

**Attendance:** See MCC's complete attendance policy referred to below in a separate section. Please note that I follow the attendance policy. Students with more than 7 absences will be dropped from the course.

Attendance is recorded in Brightspace and accessible to the student.

Please complete a [Student Self-Assessment Form](#) before coming to class each day. (You do not have to bring it with you, just go through it). If you have symptoms, feel sick or have "allergies" PLEASE STAY HOME and fill out a [Self-Reporting Form](#). MCC will reach out to you afterwards with guidelines. **Again, please do not come to class not feeling well!** Your absence will be excused and you will be able to make up any work missed. The health and safety of yourself, your family, your fellow students, and their families are more important than 3 hours of A&P. I have included video lectures on your brightspace shell that will cover the material you missed.

**Make-Up work:** Make-up exams will not be allowed without an MCC excused absence (See MCC Attendance Policy) or **PRIOR** approval of the instructor. It is the responsibility of the student to discuss their situation with the instructor ahead of time. Exams may be completed ahead of schedule and are accessed by completing chapter assignments.

**Student Behavioral Expectations or Conduct Policy:**

Refer to the General Conduct Policy in the Highlander Guide for general expectations.

Each student is expected to **behave in a civil and respectful manner** toward the instructor and other students, to follow all directions, and provide a non-distractive learning environment.

**Please turn off or silence all electronic communication devices** so that the classroom/lab will not be disturbed. **Do not leave your cell phone on the desktop. Do not answer your cell phone or send messages in the classroom.** Should the situation arise when use is necessary, inform me ahead of time and quietly step away.

You are welcome to use laptops and tablets if you prefer to take notes electronically; however, if using these devices for things other than A&P, you will be asked to stop. Repeated infractions will result in the loss of laptop and tablet privileges.

**Use of recording devices of any kind is not allowed** in the classroom or lab *without prior knowledge and permission from the instructor*. Just ask!

**During exams, practicals, and quizzes, do not leave the classroom or your computer.** If you leave without permission, I will terminate your exam, you will forfeit your remaining time, and it will be considered cheating. **DO NOT GET UP AND LEAVE DURING A PROCTORED ASSESSMENT!!!**

MCC prohibits children, friends, family members or anyone not enrolled in the course are allowed to attend any face-to-face class or sponsored review sessions. However, children and pets are welcome/encouraged during any Zoom meetings! 😊

**Repeated behavioral misconduct may result in:**

- 1) Dismissal from the rest of class
- 2) A grade deduction
- 3) Removal from the course.

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

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

Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.

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## 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. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>.

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/>

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 a Success Coach by calling (254) 299-8226 or emailing [SuccessCoach@mclennan.edu](mailto:SuccessCoach@mclennan.edu). Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

**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:**

Go to [www.mclennan.edu/academic-integrity](http://www.mclennan.edu/academic-integrity) for information about academic integrity, dishonesty, and cheating.

**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.

**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.

**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.

**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.