



BIOL2401.111HY

Anatomy and Physiology I

Fall 2023

Tuesday from 1:30-4:20 pm (lab only on campus) in STE-333

**All chapter lecture recordings are available via Brightspace.
SI Sessions will be determined after the course begins.**

Instructor Information: Dr. Jantz; kjantz@com.edu; 409-933-8255; STE-325.19

Student hours and location:

Monday virtual hours via email or Teams, by appointment only, from 12-2 pm and 5-6 pm

Tuesday on-campus from 11 am-12:30 pm in STE-325.19

Wednesday on-campus from 12-2 pm and 5-6 pm in STE-325.19

Required Textbook/Materials:

- Marieb, E.N. & Hoehn, K., 2019. Human Anatomy and Physiology, 11th ed. Boston, MA; Pearson Education, Inc. (**eBook via VitalSource in Brightspace = No Additional Purchase Required**)
- Amerman, E., 2017. Exploring Anatomy & Physiology in the Laboratory, 3rd edition. Englewood, Colorado, Morton Publishing Company (customized for COM, some pages will be missing) ISBN-13: 978-1-61731-955-6 (**Lab Manual**)
- **Web camera** (either built into your computer or attachable) to take exams, purchased from the college bookstore or a third-party vendor.

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, 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. **Prerequisites:** TSIA2 945-990 ELAR/CRC test AND 5 or higher on Essay OR 910-944 on CRC with 5-6 on Diagnostic Test + 5 or higher on Essay, or IRW 0320 with a grade of "C" or better. BIOL 2401 with a grade of "C" or better.

Course requirements:

Online Exams & Comprehensive Final Exam:

There are 4 online exams and 1 comprehensive final exam (CFE) online. Each lecture exam consists of multiple-choice, fill-in-the-blank, matching, true-false, essay, and identification questions. Exam dates are listed in the "What's due when?" document and in Brightspace.

Online Exam Quizzes via Brightspace:

There are 4 online lecture quizzes in Brightspace. Each quiz consists of multiple-choice questions. You will have 60 minutes to take the quiz. Lecture quizzes will be assigned the week before an exam. The "What's due when?" document lists lecture quiz due dates.

Online Chapter Quizzes via Brightspace:

There are 4 online lecture quizzes in Brightspace. Each quiz consists of multiple-choice questions. You will have 60 minutes to take the quiz. Lecture quizzes will be assigned the week before an exam. The "What's due when?" document lists lecture quiz due dates.

Online Lab Activity Quizzes (LAQ) via Brightspace:

There are 12 online lab activities. Each activity reinforces material found in the 2 scheduled lab practicals. -**You are responsible for watching all videos uploaded to the Lab Material area for a lab activity.** The “What’s due when?” document lists lab quiz due dates.

Lab Practicals:

There are 2 lab practicals **administered in the lab**. Practical dates are listed in the “What’s due when?” document.

Bonus Points:

Bonus points are **not** a part of the course requirements, but there will be opportunities to earn bonus points offered throughout the semester. All bonus points will be part of an exam or practical.

Determination of Course Grade/Detailed Grading Formula:

Course Assessment	Total Points	Percentage of Course
LECTURE PORTION	700	70.0%
Online Syllabus Quiz	5 points	0.5%
Online Respondus Quiz	5 points	0.5%
Online Chapter Quizzes (points vary by quiz)	200 points	20.0 %
Online Exam Quizzes (4)	100 (25 pts each)	10.0 %
Online Lecture Exams (4)	340 (85 pts each)	34.0 %
Online Comprehensive Final Exam	50 points	5.0%
LAB PORTION	300	30.0%
Online Lab Safety Quiz	10 points	1.0%
Online Lab Activity Quizzes (12)	120 (10 pts each)	12.0%
Lab Practicals (2)	170 (85 pts each)	17.0%
TOTAL POINTS	1000	100%

Grading Scale:

- A** = between 900 and 1000 points
- B** = between 800 and 899.9 points
- C** = between 700 and 799.9 points
- D** = between 600 and 699.9 points
- F** = below 599.9 points
- FN** = failure of the course due to non-attendance and non-completion of course assignments
- I** = may be assigned at the instructor’s discretion per the college’s incomplete policy.
- W** = withdrawal may be assigned per the college’s withdrawal policy.

Science Lab Policy:

This course consists of both a lecture and laboratory grade component. Students must earn 70% or better in the laboratory component to pass the course successfully. **Earning less than 70% in the laboratory component will result in an F for the course, regardless of the lecture grade.** Passing the laboratory component and failing the lecture component will not guarantee a passing grade for the course. Deviations from this policy will be at the sole discretion of the instructor.

Late Work, Make-Up, and Extra-Credit Policy:

EXAMS: Exams are administered via Brightspace and are open for 7 days. Make-ups are allowed at the discretion of the instructor.

LAB PRACTICALS: Practical make-ups are allowed at the discretion of the instructor.

MISSED ASSIGNMENTS: Please contact the instructor if you missed an assignment to make arrangements to complete the missed assignment, if possible. All make-up of missed assignments is at the discretion of the instructor.

Attendance Policy:

Attendance of the face-to-face laboratory component of the course is **required**. Being absent for three or more required lab meetings will result in an "F" for the course grade unless the instructor approves a documented excuse.

Communicating with your instructor:

ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. In addition to your COM email, announcements will be posted in Brightspace about the course content, due date, and other updates. You are required to actively monitor these posts to maintain awareness of any course changes.

Student Learner Outcome (SLO)	Maps to Core Objective(s)	Assessed via this Assignment
1. Use anatomical terminology to identify and describe the locations of major organs of each system covered.		Exams 1-4
2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.		Exam 1 Essay Questions
3. Describe the interdependency and interactions of the systems.		Skeletal System Case Study
4. Explain the contributions of organs and systems to maintaining homeostasis.	CT	Skeletal System Case Study
5. Identify causes and effects of homeostatic imbalances.		Case Study Activity
6. Describe modern technology and tools used to study anatomy and physiology.		Muscle Fatigue lab
7. Apply appropriate safety and ethical standards.		Lab Safety Quiz
8. Locate and identify anatomical structures.		Lab Practical 1 & 2
9. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.		Lab Practical 1 & 2
10. Work collaboratively to perform experiments.	TW	Skeletal System Case Study
11. Demonstrate the steps involved in the scientific method.		Conductivity Lab
12. Communicate results of scientific investigations, analyze data and formulate conclusions.	CS	Skeletal System Case Study
13. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations, and predictions.	EQS	Skeletal System Case Study

Academic Dishonesty:

Disciplinary actions will be taken for students who exhibit disorderly conduct, cheat on exams, submit plagiarized work, or are involved in collusion (helping others cheat or plagiarize) as defined in the Student Handbook under the heading, "Discipline and Penalties." The maximum penalty imposed for violations will be an F in the course. The student will also be referred to the Associate Vice President of Student Success and Conduct for further disciplinary action. Please read through the "Standards of Student Conduct" in the Student Handbook for a more complete discussion of these issues and your rights and responsibilities.

Student Concerns:

If you have any questions or concerns about any aspect of this course, please contact me using the provided contact information. If you continue to have questions after discussing your concern with me, please contact Prof. Abernathy at sabernathy@com.edu or 409-933-8330.

Course Schedule (SUBJECT TO CHANGE IF NEEDED)

WK	DAYS	LECTURE	LAB
1	8/28-9/3	CH1: The Human Body Syllabus Quiz (online) Chapter 1	Lab Safety Quiz (online) LAQ 1 (online) Ex. 1-3, 1-4, 1-5, 1-6
2	9/4-9/10	College Holiday CH2: Chemistry Chapter 2 Quiz	LAQ 2 (online) Ex. 2-1, Conductivity Lab
3	9/11-9/17	CH3: Cells Chapter 3 Quiz Respondus Quiz (online)	Ex. 4-1, 4-4, Diffusion Lab, Intro to Microscopes LAQ 3 (online)
4	9/18-9/24	CH4: Tissues Exam Quiz 1 (online) Exam 1 Chapter 4 Quiz	Ex. 5-1 to 5-4 LAQ 4 (online)
5	9/25-10/1	CH5: Integumentary System Chapter 5 Quiz	Ex. 6-1, 6-2, 6-3, 6-4 LAQ 5 (online)
6	10/2-10/8	CH6: Bone and Skeletal Tissue CH7: The Skeleton Chapter 6/7 Quiz	Ex. 7-1, 7-3, 7-4, 8-1 to 8-3 LAQ 6 (online)
7	10/9-10/15	CH8: Joints Chapter 8 Quiz	Forensic Lab Ex. 8-4, 9-1, 9-2, 9-3 LAQ 7 (online)
8	10/16-10/22	Practical 1 Review Exam Quiz 2 (online) Exam 2	Lab practical 1
9	10/23-10/29	CH9/10: Muscular System Chapter 9/10 Quiz	Ex. 10-1, 11-1, 11-3 LAQ 8 (online)
10	10/30-11/5	CH11: Nervous System & Tissue Chapter 11 Quiz	Ex. 10-1, 11-1, 11-3 Vernier Muscle Analysis Lab
11	11/6-11/12	CH12: Central Nervous System Chapter 12 Quiz	Ex. 12-1, 12-2 Neural Synapse Lab LAQ 9 (online)
12	11/13-11/19	CH13: Peripheral Nervous System Exam Quiz 3 (online) Exam 3 Chapter 13 Quiz	Ex. 13-1, 13-2 Sheep Brain Dissection LAQ 10 (online)
13	11/20-11/26	CH14: Autonomic Nervous System Chapter 14 Quiz	Ex. 14-2, 14-3, 14-4 LAQ 11 (online)
14	11/27-12/3	Withdraw Day (11/28) CH15: Special Senses (Eyes & Ears) Chapter 15 Quiz	Ex. 15-1, 15-2, 15-4 LAQ 12 (online)
15	12/4-12/10	Exam Quiz 4 (online) Exam 4	Comprehensive Final Exam Lab Practical 2 Review
16	12/11-12/15	Lab practical 2	

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook [https://www.com.edu/student-services/docs/Student Handbook 2023-2024 v2.pdf](https://www.com.edu/student-services/docs/Student_Handbook_2023-2024_v2.pdf). *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.*

Academic Success & Support Services: College of the Mainland is committed to providing students with the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or klachney@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Textbook Purchasing Statement: A student attending the College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason before the last eligible day for a "W" grade. Before withdrawing, students should speak with the instructor and consult an advisor. Students can withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is October 11. **The last date to withdraw from the 16-week session is November 28.** The last date to withdraw for the 2nd 8-week session is December 7.

FN Grading: The FN grade is issued in cases where *failure is due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they have difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program, you will be contacted by someone in the Student Success Center who will schedule a meeting to see what assistance can be offered to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs, including food, and housing, or feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.