

BIOL-2401-233CL Anatomy and Physiology I Fall 2023 Tue & Thu, Lecture - Lab 6:00-8:50pm (STE-339)

Instructor Information: Alex Peniche, Ph.D., apenichetrujill@com.edu, 409-933-8244 (Administrative Assistant Julie Kellagher)

Student (Office) hours and location: *Office Hours:* Before class or by appointment *Location*: STE-339

Required Textbook/Materials:

<u>Textbook:</u> Marieb, E.N. & Hoehn, K., 2019. *Human Anatomy and Physiology, 11th edition* (eText), Boston, MA; Pearson Education, Inc. Publisher bundled with MODIFIED Mastering A&P on-line component. ISBN13: 978-0-13-458099-9. This e-book and the Modified Mastering A&P are purchased at the time of registration. You will gain access to them in D2L Brightspace on first day of class.

Lab manual: Amerman, E., 2022. Exploring Anatomy & Physiology in the Laboratory, 4th edition. Englewood, Colorado, Morton Publishing Company (customized for College of the Mainland) ISBN-13: 9781640436206. You will have to buy this; it is <u>not</u> part of registration payments.

Course Description: Anatomy and Physiology I is the first part of a two-course sequence. It is a study of the chemistry of life, cell structure, and structure and function of the human body including the following systems: Integumentary, Skeletal, Muscular and Nervous. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

Course 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.

Course requirements:

Lecture Exams

Counts for 75% of the final course grade. Five (5) exams (15% each) will be administered. Exams will consist of a combination of multiple choice, short answer, and essay questions. The material

covered by each exam is listed on the syllabus. To prepare for an exam, students must read, understand, and master all chapters to be examined. It is very important that students understand the terms, complete exercises and study guides at the end of each chapter. Some of them will be used as exam questions. No phones or other electronic or communication equipment are allowed during exams. In the event that examinations are moved into on-line format due to changes in COVID19 guidelines, Respondus lockdown browser will be required.

Laboratory and laboratory reports

Grade is earned from individual laboratory assignment using D2L Brightspace on dates indicated in the section "Course outline". Laboratory assignments consist of a combination of identify, multiple choice, and short answer based on laboratory manual. The material covered by assignment is listed on the section "Course outline". Failure to submit Laboratory assignment in D2L Brightspace will be scored as a zero (0) toward the laboratory grade average. There will be no make-ups for missed laboratories or laboratory reports.

Quizzes (bonus Points)

Here an opportunity for you to earn bonus points. Bonus points are not part of the course requirements so any bonus points earned will help your grade and any bonus points no taken will not affect your grade negatively.

No make-up opportunity will be allowed for Quizzes once the due date has passed unless you can provide documentation for an emergency that keeps them away from taking the quiz that is approved by me. In the event that examinations are moved into on-line format due to changes in COVID19 guidelines, Respondus lockdown browser will be required.

Presentations (bonus Points)

Here another opportunity for you to earn bonus points. Bonus points are not part of the course requirements so any bonus points earned will help your grade and any bonus points no taken will not affect your grade negatively. Presentation requires that students survey the scientific literature (peer reviewed journals) related to the "clinical applications" section from book chapters 1-15. Students should submit me via email the subject proposed for presentation. Presentation dates will be organized according to assignment arrival. The presentation should be planned for 15 min (~10 slides), plus 5 min dedicated for discussion. All presentations should be made on PowerPoint file format. Please do not use readymade presentation material available on the internet. Student should present his/her understanding of the subject, his concepts and perception of the scientific matter analyzed by the paper.

Determination of Course Grade/Detailed Grading Formula: All grades matters!!. Keep track of your class grades as reflection of your knowledge, skills, or both, rather than effort. Evaluation will be based on the following and weighted as indicated:

Lecture: Counts for 75% of the final course grade. Five (5) exams (15% each) will be administered. *Laboratory*: Counts for 25% of the final course grade.

The grade for this course consists of both a lecture and laboratory component. Students must earn a 70% or better in the laboratory component to successfully pass the course. 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.

Grading Scale:

A - A weight of the points earned for course assessments that equals 90% or more

 \mathbf{B} – A weight of the points earned for course assessments that equals between 80% and 89% inclusive

 \mathbf{C} – A weight of the points earned for course assessments that equals between 70% and 79% inclusive

 \mathbf{D} – A weight of the points earned for course assessments that equals between 60% and 69% inclusive

 \mathbf{F} – A weight of the points earned for course assessments that equals 59% or less, or for lab assessment that fails to meet either the lab science policy or the lab attendance policy.

FN - A weight of the points earned for course assessments that equals 59% or less due to poor participation.

I - An incomplete may be assigned at the discretion of the instructor in accordance with the college policy.

 $\mathbf{W} - \mathbf{A}$ withdrawal may be assigned in accordance with college policy.

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

Late work: Do not turn in any assignment late. Substantial number of points, up to 100%, may be deducted.

Extra credit: Extra credit assessments are dependent on your attendance. If a student has total attendance below 85%, he/she may not be eligible for extra credit points. Any completed and graded extra credit assignment by such student may not be applied in the final grade calculation.

<u>Make-up</u>: There will be make-up for in-class quiz missed due to a documented excused absence. There may be a maximum of one (1) make up, at the instructor's discretion, for in-class lecture exam missed due to an excused absence. If one must miss a lecture exam because of an emergency, he/she must contact the instructor before the start of the scheduled exam and provide documentation as legitimate proof of the absence! Arrangements may be made for him/her to take the exam at a time not later than 24 hours after the scheduled date. If you know in advance that you will be unable to attend an exam, you may take the exam earlier than scheduled.

Lab Science Policy: The grade for this course consists of both a lecture and laboratory component. Students must earn a 70% or better in the laboratory component to successfully pass the course. 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.

Attendance Policy: Students are expected to attend all laboratory practices. An accurate record of each student's attendance is kept for the duration of the course. It is the student's responsibility to follow up with classmates for assignments, announcements, material covered, etc. if he/she misses a session. If student decides stop attending class, missed activities (tests, and laboratory reports) will be scored with a zero (0). In other words, you will most likely fail the course if you stop attending class and you don't withdraw yourself.

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.

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Academic Dishonesty: Academic dishonesty includes activities and behaviors such as cheating on tests, collusion, and plagiarism (the practice of taking someone else's work or ideas and passing them off as one's own). 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 and/or plagiarize). The consequences for violating the academic integrity include one or more of a zero score for the test/assignment, "F" grade in the course, and withdrawal from the class. The student may also be referred to the Vice President of Student Success and Conduct for further disciplinary action including dismissal from the college.

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

Course outline: This is a tentative schedule of lecture and laboratory activities and may be subject to change as the course proceeds. Students will be notified in class and posted/uploaded in the D2L Brightspace. It is the student's responsibility to check the D2L Brightspace for amendments or updates to the syllabus.

Week	Date	Learning Module Topics	Laboratory - Components	Due
1	8/29-31	Ch. 1 - Introduction to A&P	Lab Safety, Ex 1-3 and 1-4 (Directional Terms & Regional Terms); Ex 1-5 and 1-6 (Body Cavities/membranes & Planes)	9/7
2	9/5-7	Ch. 2 - Chemistry	Conductivity Lab, Ex 2-1 pH Lab (pH, Acids and Bases)	9/14
3	9/12-14	Ch. 3 - The Cell	Ex 4-1 (Organelles and Cell Structures); Ex 4-4 (Mitosis and the Cell Cycle)	9/21
4	9/19	Exam 1 (Ch 1,2,3)		9/19
	9/21 9/26	Ch. 4 – Tissues	Ex 5-1 to 5-4 (Tissues)	10/3
5	9/28	Ch. 5 - Integumentary	Ex 6-1(Skin Anatomy); Ex 6-2 (Histology of Integument), Ex 6-3	
6	10/3	System	(Touch Receptor Distribution); and Ex 6-4 (Fingerprinting)	10/10
	10/5	Exam 2 (Ch 4, 5)		10/5
7	10/10	Ch. 6 - Bones & Skeletal Tissue	Ex 7-1 (Microscopic Anatomy of Bone); Ex 7-3 (Bone Marking and Bone Shapes); Ex 7-4 (Anatomy of Long Bones); Ex 8- 1 to 8-3 (Anatomy of the Skull,	10/17

			Axial Skeleton, Appendicular Skeleton)	
	10/12	Ch. 7 - The Skeleton	Forensic Lab Handout	10/24
	10/17			10/21
8	10/19	Ch. 8 - The Joints	Ex 9-1 (Classification of Joints); Ex 9-3 (Knee Joint-use of lab equipment); 9-2 (Synovial Joints)	10/26
	10/24	Exam 3 (Ch 6, 7, 8)		10/24
9	10/26	Ch. 9 - Muscles	Ex 10-1 (Skeletal Muscle Anatomy); Ex 11-1 (Skeletal Muscle Microanatomy); Ex 11-3 (Smooth and Cardiac Muscle Tissues)	11/2
10	10/31- 11/2	Ch. 10-The Muscular System	Vernier Muscle Fatigue Handout	11/9
11	11/7-9	Ch. 11 - Nervous Tissue	Ex 12-1 (Neurons and Neuroglia); Ex 12-2 (Nervous Tissue Physiology); Neural Synapse Lab Exercise	11/16
10	11/14	Exam 4 (Ch 9, 10, 11)		11/14
12	11/16	Ch. 12 - Central Nervous	Ex 13-1 (Anatomy of the Brain);	
12	11/21	System	Ex 13-2 (Anatomy of the Spinal Cord)	11/28
13	11/23	No class – Thanksgiving break		
14	11/28	Ch. 13 - Peripheral Nervous System	Ex 14-2 (Cranial Nerves), Ex 14- 3 (Spinal Nerve Reflex)	12/5
14	11/30	Ch. 14 - Autonomic Nervous System	Ex 14-4 (The Autonomic Nervous)	12/7
15	12/5-7	Ch. 15 The Special Senses	Ex 15-1 (Anatomy of Eye & Dissection), 15-2 (Anatomy of an Ear, Hearing & Equilibrium); Ex 15-4 (Physiology of the General Senses)	12/11
16	12/12	Exam 5 (Ch 12, 13, 14, 15)		12/12

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 <u>https://www.com.edu/student-services/docs/Student Handbook 2023-2024 v2.pdf</u>. 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 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 <u>klachney@com.edu</u>. The Office of Services for Students with Disabilities is located in the Student Success Center.

Textbook Purchasing Statement: A student attending 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 prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to 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 of *failure 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 are having 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 with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <u>https://www.com.edu/community-resource-center/</u>. 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 <u>deanofstudents@com.edu</u> or <u>communityresources@com.edu</u>.