BIOL2401.221CL
Anatomy and Physiology I
Fall 2022
Monday & Wednesday from 6-8:50pm in STE-333

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

Student hours and location:
Monday/Wednesday from 12:00-2:00pm & Tuesday from 11:00am to 12:30pm in STE-325.19
Monday/Wednesday from 5-6pm via Teams by appointment only

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/D2L = NO 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)**

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.
Prerequisite: 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 1408 with a grade "C" or better is strongly recommended as a prerequisite but is not required.

Course requirements:
Lecture Exams & Comprehensive Final Exam:
There are 4 in-person exams and 1 in-person comprehensive final exam (CFE). 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/D2L.

Online Lecture Quizzes via Brightspace/D2L:
There are 4 online lecture quizzes in Brightspace/D2L. Each quiz consists of multiple-choice questions. You will have 60 minutes to take the quiz. Lecture quizzes will be assigned the week prior to an exam. Lecture quiz due dates are listed in the "what's due when/?" document.

Online Chapter Quizzes via Brightspace/D2L:
You will have 13 online chapter quizzes. Due dates are listed in the "what's due when/?" document **by 11:59pm on Saturday**. **Required online component**.

Online Lab Activity Quizzes (LAQ) via Brightspace/D2L:
There are 12 online lab activities. Each activity reinforces material found in the 2 scheduled lab praticals.
You are responsible for watching all videos uploaded to the Lab Material area for a lab activity.
Lab quiz due dates are listed in the "what's due when/?" document.

Lab Practicals:
There are 2 lab practicals **administered in lab**. Practical dates are listed in the "what's due when/?" document.

Online Weekly Discussions for Bonus Points via Brightspace/D2L:
There are 16 weekly discussions. These are not required component of the course. Posts are worth 1 extra credit point added each week following the closure of the discussion. Posts can only be made during the week the discussion is open, no exceptions. If you think you will need extra points at the end of the semester to improve your grade, here is your chance.

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	10 points	1.0%
Online Chapter Quizzes (points vary by quiz)	200 points	20.0 %
Online Lecture Quizzes (4)	100 (25 pts each)	10.0 %
Lecture Exams (4)	340 (85 pts each)	34.0 %
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 is in points:
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 discretion of the instructor in accordance with the college's incomplete policy.
W = withdrawal may be assigned in accordance with college's withdrawal policy.

Science Lab Policy:
This course consists of both a lecture and laboratory grade 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.

Late Work, Make-Up, and Extra-Credit Policy:
EXAMS: Exam 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 compete the missed assignment.

Attendance Policy:
Students are required to come to lab to complete the face-to-face laboratory exercises required in the laboratory component of this course. **Absences in three required lab meetings will result in a "F" for the course grade unless there is a documented excuse approved by the instructor**.

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. (Faculty may add additional statement requiring monitoring and communication expectations via Brightspace/D2L or other LMS)

Student Learner Outcome (SLO)	Maps to Core Objective(s)	Assessed via this Assignment
1. Use anatomical terminology to identify and describe locations of major organs of each system covered.		Exam 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 contributions of organs and systems to the maintenance of 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 contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Prof. Abernathy at sabernathy@com.edu or 409-933-8330.

Course Schedule (SUBJECT TO CHANGE, IF NEEDED)

WK	DAYS	LECTURE	LAB
1	**8/22 to 8/28**	CH1: The Human Body Syllabus Quiz (online) **Chapter 1 Quiz**	Lab Safety Quiz (online) LAQ 1 (online) Ex. 1-3, 1-4, 1-5, 1-6
2	**8/29 to 9/4**	CH2: Chemistry **Chapter 2 Quiz**	Ex. 2-1, Conductivity Lab LAQ 2 (online)
3	**9/5 to 9/11**	**Holiday (9/5)** CH3: Cells **Chapter 3 Quiz**	Ex. 4-1, 4-4, Diffusion Lab, Intro to Microscopes LAQ 3 (online)
4	**9/12 to 9/18**	CH4: Tissues **Lecture Quiz 1 (online)** **Exam 1** **Chapter 4 Quiz**	Ex. 5-1 to 5-4 LAQ 4 (online)
5	**9/19 to 9/25**	CH5: Integumentary System **Chapter 5 Quiz**	Ex. 6-1, 6-2, 6-3, 6-4 LAQ 5 (online)
6	**9/26 to 10/2**	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	**10/3 to 10/9**	CH8: Joints **Chapter 8 Quiz**	Forensic Lab Ex. 8-4, 9-1, 9-2, 9-3 LAQ 7 (online)
8	**10/10 to 10/16**	Practical 1 Review **Lecture Quiz 2 (online)** **Exam 2**	**Lab practical 1**
9	**10/17 to 10/23**	CH9/10: Muscular System **Chapter 9/10 Quiz**	Ex. 10-1, 11-1, 11-3 LAQ 8 (online)
10	**10/24 to 10/30**	CH11: Nervous System & Tissue **Chapter 11 Quiz**	Ex. 10-1, 11-1, 11-3 Vernier Muscle Analysis Lab
11	**10/31 to 11/6**	CH12: Central Nervous System **Chapter 12 Quiz**	Ex. 12-1, 12-2 Neural Synapse Lab LAQ 9 (online)
12	**11/7 to 11/13**	CH13: Peripheral Nervous System **Lecture Quiz 3 (online)** **Exam 3** **Chapter 13 Quiz**	Ex. 13-1, 13-2 Sheep Bain Dissection LAQ 10 (online)
13	**11/14 to 11/20**	**Withdraw Day (11/18)** CH14: Autonomic Nervous System CH15: Special Senses (Eyes & Ears) **Chapter 14 Quiz**	Ex. 14-2, 14-3, 14-4 LAQ 11 (online)
14	**11/21 to 11/27**	**Thanksgiving Holiday (11/24)** **Chapter 15 Quiz**	Ex. 15-1, 15-2, 15-4 LAQ 12 (online)
15	**11/28 to 12/4**	**Lecture Quiz 4 (online)** **Exam 4**	**Comprehensive Final Exam** Practical 2 Review
16	**12/5 to 12/9**	**Lab practical 2**	Grade Review Day

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://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.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.* https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

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 Michelle Brezina at 409-933-8124 or mvaldes1@com.edu. 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 16-week session is November 18th**.

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 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.