



BIOL 2402.102CL
Anatomy and Physiology II
Summer II 2022
Monday-Thursday 12:00-4:40PM
Steam Bldg. #22, Room 340

Instructor Information: Robin Wright, M.D. email:rwright@com.edu

Student hours and location: Virtually through Blackboard Collaborate by appointment

- **Required Textbook/Materials:** Marieb, E.N. & Hoehn, K., 2019. Human Anatomy and Physiology, 11th ed. Boston, MA; Pearson Education, Inc. (**eBook via VitalSource already loaded in BB = NO PURCHASE REQUIRED**)
- Amerman, E., 2017. Exploring Anatomy & Physiology in the Laboratory, 3rd edition. Englewood, Colorado, Morton Publishing Company (customized for COM) ISBN-13: 978-1- 61731-955-6 (**Lab Manual**)

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.

Course requirements:

COMPLETION MARKERS (also known as ASSIGNMENTS, QUIZZES OR EXAMS)

Lecture Exams

Lecture Exams and Cumulative Final Exam will be in class. We will have a survey as a class to determine if the exams will be paper on computer based. Either way the exam will be given face to face in the classroom. Each lecture exam consists of multiple-choice questions.

Lab Practicals

There will be 2 laboratory practicals. The practicals consist of in-class Power Point examinations. Questions will be from labeled models, dissections, histomicrographs and laboratory exercises. The

practicals are timed so if a student comes late, he/she risks of not being able to complete or even take this test. All examples are fill in blank. There is ½ off each miss spelled answer. There are NO word banks.

Mastering A&P assignments

You will have approximately 12 on-line assignments in the Modified-Mastering on-line component. *This on-line component is required.* Your score will automatically be synced to your Blackboard Course Progress(gradebook).

Lab Exercises and Homework (Assignments)

You will have approximately 10 Lab Completion Markers. The assignments will be submitted on Blackboard. According to the schedule, we will complete laboratory exercises from Handouts found on Blackboard or in your Lab Manual. You are responsible for bringing these exercises to class on the days that they will be done according to the schedule. If the instructor makes changes to the schedule, you are expected to follow accordingly. You must participate for the entire lab period unless otherwise instructed. In addition, you must follow proper laboratory safety protocols to get credit for these exercises. **If you forget your laboratory exercises/handout, you will not receive credit. If you are absent, you will not receive credit. If your absence is documented and approved by me, you may be allowed to make-up the exercise at a time convenient for the instructor. If you leave early, you will not receive credit.** The assignment will be submitted on Blackboard. Once your assignment is manually graded your score will show in your Blackboard Course Progress(gradebook).

*NOTE All uploaded files must be DOC, DOCX, HTM, HTML, MP4, MPG, PDF, PPT, PPTX, XLS, XLSX, RTF, TXT, ZIP, and most image types. **No Dot. File uploads are compatible with Blackboard**

Due Dates for Completion Markers

Lecture/Lab Exam dates are listed in the schedule, you will receive ample notice of any schedule changes via your College of the Mainland Outlook email and announced through Blackboard. The FINAL Exam will be on the last class day during class time. (See your Blackboard course schedule)

Quizzes and Assignments are due on **Sundays @ 11:59PM.**

Determination of Course Grade/Detailed Grading Formula:

LECTURE PORTION	700	70.0%
Syllabus Quiz	2.5 points	0.25%
Get to Know You Assignment	2.5 points	0.25%
Attendance/Participation	25 Points	2.5%
Mastering A&P Assignments (10)	120 (12 pts each)	12.0 %
Mastering A&P Lecture Quizzes (10)	100 (10 pts each)	10.0 %
Lecture Exams (3)	300 (100 pts each)	30.0 %
Comprehensive Final Exam (80%cumulative, 20%CH27,28)	150 points	15 %
LAB PORTION <small>Important! Students must achieve at least 70% of the points offered in the following assignments to receive a passing grade-refer to the lab policy below.</small>	300	30.0%
Lab Safety Quiz	5 points	0.5%
Online Mastering A&P Lab Assignments (10)	50 points (5 pts each)	5%
Lab Exercises (10)	75 points (7.5 pts each)	7.5%
Online Lab Practical (2)	170 (85 pts each)	17.0%
TOTAL POINTS	1000	100%

Grading Scale (based on points not percentage-please remember this!):

A A Sum of the points earned for course assessments that equals between 900 and 1000 points

B A Sum of the points earned for course assessments that equals between 800 and 899 points

C A Sum of the points earned for course assessments that equals between 700 and 799 points

D A Sum of the points earned for course assessments that equals between 600 and 699 points

F A Sum of the points earned for course assessments that equals below 600 points.

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

W A withdrawal may be assigned in accordance with college policy.

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

IN GENERAL, THERE ARE NO MAKE-UP ASSIGNMENTS, QUIZZES OR EXAMS (also known as *Completion Markers*)

If you know in advance that you have a conflict with a scheduled completion marker, you are required to inform the instructor in **advance**. Valid excuses for missing a completion marker are subject to approval by the instructor (Dr. Wright) and **REQUIRE** documentation to be submitted online through your College of the Mainland email.

NO EXAMS ARE DROPPED or REPLACED, ALL YOUR WORK COUNTS TOWARD YOUR COURSE GRADE.

Late Completion Markers

Any late completion marker will be receive a **10%** reduction per day that it is late. This does not refer to exams. Exams will **not** be extended or reopened unless you have received authorization from Dr. Wright, which is in very limited exceptions. (See Makeup policy)

Lab Science 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.

Incomplete

All grades of **incomplete (I)** are subject to prior approval by the department chair. You cannot receive an incomplete in the course if you miss an exam for an unexcused reason; you will receive a zero for the missed exam.

Extra Credit:

Extra credit opportunities/questions will be offered for each lab and lecture exam. The maximum percentage on an exam is 100%. There is **no** carry over of extra points to other exams. There **may** be extra credit assignments given during the semester. These *potential* points will be added to your total course points at the **end** of the semester. They will be visible in your course progress tab on Blackboard. Again, these are points **not** percent.

ATTENDANCE POLICY:

Students are expected to attend all class sessions as listed on the course calendar. These attendance policies apply to the face-to-face lab portion of the class.

- *Attendance* is required for completing the lab assignments – missing six classes with undocumented excuses will result in an F in the course in accordance with the science lab policy. Receiving an F is also possible if missed lab sessions results in poor performances on lab practical exams

- *Tardiness Policy:* Students arriving late (five minutes) will be noted in the daily attendance.

Attendance/participation is counted as **2.5 %** of your grade. This score will be calculated by assignments and class participation. If a student cannot participate in live lecture/lab or review session, a notification is requested to be sent to the professor through College of the Mainland

- *Withdrawal Policy:* If you are unable to successfully complete the course requirements, you may wish to drop this class. It is your responsibility to initiate a request for withdrawal from any course.

It is in your best interest to visit with me before making that decision. However, if you decide to drop this class, it is your responsibility to withdraw by **Friday August 5, 2022**. You are still enrolled in this course until you have submitted this form. If you do not withdraw by this date, you will receive a grade of “0” (zero) for all remaining work that you did not complete, which may result in a grade of “F” for the class. *Please if you are having trouble in the course especially early on, contact me so that we can get you the help that you need to avoid a withdrawal from the course.*

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.

(Additional Policy regarding Course Communication) If you need to contact me, please use my email for reasons of tardiness as well as questions and concerns. Also, please sign the email with your name and identify your course number and section when contacting me. If you are having difficulty with the course material, please contact me through email to make an appointment.

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.		Lab Practical 1 and 2
2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.		Lecture Assignment 9
3. Describe the interdependency and interactions of the systems.		
4. Explain contributions of organs and systems to the maintenance of homeostasis.	Critical Thinking	Urinalysis Handout
5. Identify causes and effects of homeostatic imbalances.	Communication Skills	Urinalysis Handout
6. Describe modern technology and tools used to study A&P		Lab Practical 1 and 2
7. Apply appropriate safety and ethical standards.		Lab Safety Quiz
8. Locate and identify anatomical structures.		Lab Practical 2
9. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.		Lab Practical 1
10. Work collaboratively to perform experiments.	Teamwork	Urinalysis Handout
11. Demonstrate the steps involved in the scientific method.		Exercise 25-1 The Model Kidney

12. Communicate results of scientific investigations, analyze data and formulate conclusions.	Exercise 19-2 Blood Typing & Exercise 19-3 Murder Mystery	
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.	Empirical & Quantitative Skills	Urinalysis Handout

Academic Dishonesty: Disciplinary actions will be taken for students who exhibit disorderly conduct, cheat on exams, submit plagiarized work (see below), 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 Sheena Abernathy, Chair of the Science Department, at 409-933-8330 or by email: sabernathy@com.edu.

Course outline: TENTATIVE SUMMER 2022

*****Refer to Weekly MODULES in Blackboard for COMPLETION MARKER DUE DATES!**

WK	DAYS	LECTURE	LAB-ON CAMPUS
1	July 11-14	CH16: Endocrine System CH18: Heart CH19:Blood Vessels CH17:Blood	DAY 1 & 2
			Lab Safety Ex. 16-1 Endocrine System Anatomy Ex. 16-2 Endocrine Histology Ex. 17-1 Anatomy of the Heart EX 17.-1 Pig Heat Dissection
			DAY 3 DAY 4
			Ex. 19-5 ECG & Vernier Handout Ex. 19-1 Heart Auscultation Ex. 14-4 Blood pressure Ex. 14-4 Pulse Palpation Ex. 18-1 Major Arteries Ex. 18-2 Major Veins
2	July 18-21	EXAM ONE Monday July 18th @ 12:00pm(CH16,18,19) CH20: Lymphatic System CH21: Immunity CH22: Respiratory	DAY 1 & DAY 2
			Ex. 20-1 Formed Elements of blood Ex. 20-2 ABO & Rh blood groups Ex. 20-3 Murder Mystery Ex. 21-2 Lymphatic Organ Anatomy Ex. 21-2 Lymphatic Organ Histology
			DAY 3 & DAY 4
			Ex. 22-1 Resp. Anatomy Ex. 23-2 Lung Volumes & Capacities Construct a Lung Handout

3	July 25-28	EXAM TWO Monday July 25th @ 12:00pm(CH17,20,21,22) CH23:Digestive System CH24:Nutrition CH25:Urinary CH26: Fluid Balance	DAY 1 & DAY 2
			Lab Practical 1 Monday Ex. 24-1 Digestive System Anatomy Lactase Enzyme Assay Handout Ex. 2-3 Enzymes/Chemical Reaction(DEMO)
			DAY 3 & DAY 4
			Ex. 25-1 Urinary System Anatomy Pig Kidney Dissection Ex. 26-1 The Model Kidney Urinalysis Handout
4	August 1-4	EXAM THREE Monday August 1st @ 12:00pm(CH23,24,25,26) CH27:Reproductive System CH28:Development	DAY 1 & DAY 2 Ex. 27-1 Male Reproductive Anatomy Ex.27-2 Female Reproductive Anatomy Pig Uterus Dissection Pregnancy Kit/Barrier
			DAY 3 & DAY 4
			Animal Dissection
5	August 8-11	EXAM FINAL Thursday August 11th @ 12:00pm(80%cumulative, 20%CH27,28)	DAY 1 & DAY 2
			Lab Practical 2 Monday

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 Holly Bankston at 409-933-8520 or hbankston@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Counseling Statement: Any student needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or hbankston@com.edu. Counseling services are available on campus in the student center for free and students can also email counseling@com.edu to set up their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

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 5-week session is July 1. The last date to withdraw from the 10-week session is August 1. The last date to withdraw for the 2nd 5-week session is August 5.

F_N Grading: The F_N grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F_N 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 F_N grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F_N 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.

COVID-19 Statement: All students, faculty, and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland's Coronavirus Information site at www.com.edu/coronavirus. In compliance with Governor Abbott's May 18 Executive Order, face coverings/masks will no longer be required on COM campus. Protocols and college signage are being updated. We will no longer enforce any COM protocol that requires face coverings. We continue to encourage all members of the COM community to distance when possible, use hygiene measures, and get vaccinated to protect against COVID-19. Please visit com.edu/coronavirus for future updates.