

BIOL 1408.001HY Biology for Non-Science Majors I Summer I 2023 Online through Brightspace/D2L (Lecture) M-F 10-11:30, STEM 320 (Lab)

Instructor Information:

Emilie Mobley

Email: emobley@com.edu phone: 832-598-7159

**Note: Email is the preferred method of communication. Responses can be expected within 24 hours during the week or within 48 hours during the weekends.

Student hours and location:

In Person Office Hours: M-F 11:30-12 **Virtual Student Hours:** by appointment

Required Textbook, Materials, and Resources:

Required Textbooks

- Campbell Essential Biology with Physiology, Simon, Dickey, Hogan, and Reece e-text with Modified Mastering Biology. Pearson.
 - o Note: The e-book and Modified Mastering Biology are purchased at the time of registration and you will gain access to the online materials once you are in Brightspace/D2L when classes begin.
- BIOL 1406/8 Lab Manual- purchased through the COM bookstore

Required Resources

Scantrons (5)- 882E **Note: All 5 Scantrons must be turned in to Prof. Mobley by the Friday before the first exam

Computer Requirements

It is your responsibility to have access to a computer with the following resources:

- Internet access through a wired Ethernet connection
- A contemporary web browser capable of viewing flash video (Chrome and Firefox usually work best)
- Java installed and updated
- COM e-mail account
- Webcam either built in or separate device
- Microsoft Office (COM offers free Office 365 access to students)
- A PDF reader

You are responsible for maintaining your own online access to the course. If your computer does not allow you to complete the assignments in the course, please use the computers available on campus. Be aware that the college computers are only available during the hours of operation for the computer labs and library. It is up to you to be aware of those times and get all assignments turned in on time.

Course Description:

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. Prerequisites: CPT Reading 78/READ 0370. Successful completion of College Algebra or better-level mathematics is recommended.

Course Requirements:

<u>MasteringBiology</u> – you will have weekly assignments in MasteringBiology to be completed for credit. There are also assignments that are for practice and do not count towards your grade. These assignments can be completed to help prepare you for exams. <u>Lecture Exams and Comprehensive Final Exam</u> – both lecture exams and the final exam will be taken during class time and will consist of multiple choice, T/F, diagram identification, and short answer style questions.

<u>In class work/homework</u> – throughout the semester we will have various in class activities that are linked to the course material to help reinforce the information covered in lecture.

<u>Lab Activities</u> – you will be completing lab activities in class, and these are graded activities. These labs will be what your lab exams are based off, so it is crucial that you attend lab to complete the various lab activities.

<u>Lab Practicals</u> – lab practicals are exams that cover the various lab experiments that are carried out and will consist of multiple choice, fill-in-the-blank, short answer, and identification of results style questions.

Required Online Resources

- COM Brightspace/D2L: http://com.brightspace.com. COM Brightspace/D2L will be used for online activities and more. All of the class resources are available through Brightspace/D2L.
- Modified Mastering Biology with eText Login will be completed through Brightspace/D2L. You will have several assignments on Mastering Biology for each topic covered.

Determination of Course Grade/Detailed Grading Formula:

Lecture Grade (810 points):

- 1. Lecture exams (400 points) A total of four lecture exams, each worth 100 points, will be given throughout the semester (see Tentative Course Outline).
- 2. Chapter Study Guides (110 points) For each chapter, you will complete a Chapter Study Guide to be turned in via Brightspace/D2L. These study guides also serve as the review for exams.
- 3. Mastering Biology Activities (110 points) you will have Mastering Biology Activities for each chapter of the textbook.
- 4. In-Class Assignments (40 points) you will have various in-class discussions to complete throughout the semester.
- 5. Comprehensive Final Exam (150 points)—covers ALL the material presented in lecture and assigned as reading throughout the semester.

Laboratory Grade (270 points):

- 1. Lab Daily Grade (120 points) each lab will have activities to be completed in class for a portion of your lab daily grade.
- 2. Lab Practical (150 points) two lab practicals will be given during the semester covering material from previous labs.

Determination of Course Grade

Lecture Grade (75%)

Lecture exams	400 points
Chapter Study Guides	110 points
Mastering Biology Activities	110 points
In-Class Assignments	40 points
Comprehensive Final Exam	150 points
Laboratory Grade (25%)	

Lab Daily Grade 120 points
Lab Practical 150 points
1,080 points

Total: Grading Scale:

Final grades assigned for this course will be based on total points earned and are assigned as follows:

Letter Grade	Grade Average
A	89.5% - 100%
В	79.5% - 89.4%
С	69.5% - 79.4%
D	59.5% - 69.4%
F	0 - 59.4%

Lab Science Statement

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.

Late Work, Make-Up, and Extra-Credit Policy: Any deviations from the policies described below are at the sole discretion of the instructor.

Late Work Policy: The course is designed to accommodate some of life's mishaps, difficulties, or tragedies by providing extended deadlines for selected assignments. In those cases, there is a deadline extension after the initial deadline. After the extended deadline has passed, the assignment is closed, and the link may be removed. Expect that no additional time will be provided.

- <u>Chapter Study Guides and MasteringBiology Activities</u> have an extended deadline that results in a 10% loss of points for each day the assignment is late. Please use the course outline to help schedule your time for the course to assure that you meet the assignment deadlines.
- Lecture Exams and Lab Practicals are an exception and have no extended deadline.
- <u>Labs</u> will be due on the day they are completed in class. Students that are not in class will NOT be allowed to complete the activity.
- <u>In class work-</u> if work is given during class to be completed <u>in class</u>, there is no extended deadline and students that are not in class will not be allowed to complete the activity.

Make-Up Policy:

- Chapter Study Guides and MasteringBiology Activities do not have a make-up policy due to the extended deadline.
- <u>Lecture Exams</u>: Should you anticipate an absence on an exam day you must contact your instructor by phone, email or in person PRIOR to the absence. Your situation will be evaluated by your instructor and you may be allowed to take a make-up exam. Make-up exams will be allowed for a death in the family or a documented student illness. You must provide legitimate proof for your excuse in the case of missing an exam. The make-up exam MUST be taken within one week of the original exam date. **Missed exams will not be allowed without documented evidence.**
- <u>Lab Practicals</u>: Due to the nature of the course, no make-up Lab Practical will be permitted. This is because lab practicals require additional set up of equipment and experiments that cannot be replicated at a later time.
- <u>Labs</u>: There are NO MAKE-UP LABS. Arriving late to lab may result in not receiving full credit for completing the lab. You are still responsible for the material covered in lab and it is YOUR responsibility to obtain the information from a classmate.
- <u>In class work:</u> If you miss class on the day an assignment is due, you will receive a ZERO for the missed assignment. To prevent a grade of ZERO, you can scan and email the assignment to your instructor on the same day the assignment is due. If you are absent for an in-class assignment, there are no make-ups, and you will receive a ZERO for the in-class work.

Extra-Credit Policy: During the semester there will be opportunities for extra credit. Students are responsible for submitting any extra credit work by the due date and no late work for extra credit will be accepted.

Attendance Policy:

Students are expected to attend all class sessions as listed on the course calendar. These attendance policies apply to both lecture and lab. Attendance will be taken at the beginning of each class. Leaving early from class (without approval from the instructor) may result in an absence for that day. If you do have to miss class, course materials will be posted on Brightspace/D2L, but it is your responsibility to obtain any additional notes from a classmate.

<u>Laboratory Attendance Policy:</u> This laboratory is designed to support the information provided by the lectures and online materials. This lab course is an introduction to fundamental biology, that covers important topics in each lab meeting. Labs are designed to last most of the lab period, therefore expect to be in lab for the full time. Arriving late to lab may result in not receiving full credit for completing the lab. You are responsible for the material covered in lab and it is YOUR responsibility to obtain any notes from a classmate.

Attendance: Lab attendance and participation are required and directly affect your weekly lab grade. Any deviations from this policy are at the sole discretion of 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. Responses can be expected within 24 hours during the week or 48 hours if it is the weekend.

Student Learner Outcomes	Core Objectives	Course Level Assessments
1. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures.		Lab 4 & 5
2. Identify stages of the cell cycle, mitosis (plant and animal), and meiosis.		Lab 10
3. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.	Empirical and Quantitative Skills	Lab 6, 7, 8, & 9
4. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.		Lab 11

	Lab 11 & 12
	In Class Activity
	In Class Activity
Critical Thinking	In Class Activity
	All Lab Assignments
	All Lab Assignments
Communication	All Lab Assignments
Teamwork	All Lab Assignments
	Communication

Academic Dishonesty: Any incident of academic policy will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate discipline action.

<u>Plagiarism</u>: Plagiarism is using someone else's words or ideas and claiming them as your own. Plagiarism is a very serious offense. Plagiarism includes paraphrasing someone else's words without giving proper citation, copying directly from a website and pasting it into your paper, using someone else's words without quotation marks. Any assignment containing any plagiarized material will receive a <u>grade of zero</u> and the student will be referred to the Office of Student Conduct for the appropriate discipline action.

<u>Link(s) to resource(s) about avoiding plagiarism: https://owl.english.purdue.edu/owl/resource/589/01/</u>

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 Science and Engineering Department Chair, Prof. Abernathy at (409)933-8330 or sabernathy@com.edu.

<u>Classroom Conduct Policy:</u> College of the Mainland requires that students enrolled at COM be familiar with the Standards of Student Conduct, which can be found in the on-line Student Handbook. http://www.com.edu/student-services/student-handbook.php. Students are expected to be familiar with and abide by the Student Code of Conduct. Any violations of the Code of Conduct will result in a referral to the Dean of Students and may result in dismissal from this class.

<u>In-Class Behavior Expectations:</u> Each student is entitled to an environment conducive to learning. Any situation that prevents students from learning or the instructor from teaching is considered to be a disruption. Please be respectful of your fellow students and the instructor by adhering to the following:

- 1. Cell phones can be used sparingly during class, but if the use begins to be a disruption to yourself, other students, or the instructor, you will be asked to put the device away. Certain devices can be used to view content on the internet; however, this is at the discretion of the instructor. Laptops are ONLY permitted during class to take notes. Surfing the internet or checking email from your laptop is not permitted. <u>During exams</u>, <u>no electronics will be allowed out. Items not allowed include</u>, <u>but are not limited to, cell phones</u>, <u>laptops</u>, <u>tablets</u>, <u>ear buds</u>, <u>headphones</u>. <u>If the student has any of these devices out during an exam</u>, <u>the exam will be taken from the student</u>, <u>and they will receive a zero for that exam</u>.
- 2. Students can be removed from the class if they are exhibiting disruptive behavior as deemed by the instructor. Repeated incidents will result in automatic withdrawal from the class. Students who display this conduct will be removed from the class and a Conduct Referral Form may be submitted to the Dean of Students.

Course policies are subject to change. It is the student's responsibility to check Brightspace/D2L for corrections or updates to the syllabus. Any changes will be posted in Brightspace/D2L.

Tentative Course Calendar (subject to change): Blue = In Class Red = At Home Green = Holiday

Tentative Co	urse Calendar (se	ibject to change):	Blue = In Class B	cu – At Home	GICC	II — IIUliday
Sunday	Monday	Tuesday	Wednesday	Thursday		Friday
JUNE	Intro to Course, Dry Lab SG1 due by 11:59PM	Review Ch. 1 Lab 1: Lab Safety and Scientific Method SG2 due by 11:59PM	Review Ch. 2 Lab 2: pH	Lab 3: Biomolecules SG3 due by 11:59PM	8	In Class: Review Ch. 3, In-Class Assignment *5 Scantrons due IN CLASS*
11	12	13	14		15	16
Mastering Activities (Ch. 1-3) due by 11:59PM	EXAM 1 Chapters 1-3	Lab 4: Microscopes Lab 5: Cells SG4 due by 11:59PM	Review Ch. 4 Lab 6: Cell Transport SG5 due by 11:59PM	Review Ch. 5 <u>Lab Practical</u> <u>Labs 1-6</u>	<u>1</u>	Exam Review, Cell Analogy Assignment Lab 7: Enzymes
18	19	20	21		22	23
Mastering Activities (Ch. 4-5) Due by 11:59PM	HOLIDAY- NO CLASS	EXAM 2 Chapters 4-5 SG6 due by 11:59PM	Review Ch. 6 Lab 8: Respiration and Fermentation SG7 due by 11:59PM	Review Ch. 7 Lab 9 : Photosynthesis		Exam Review, In- Class Assignment
25	26	27	28		29	30
Mastering Activities (Ch. 6-7) due by 11:59PM	EXAM 3 Chapters 6-7 SG8 due by 11:59PM	Review Ch. 8 Lab 10: Mitosis and Meiosis SG9 due by 11:59PM	Review Ch. 9 Lab 11: Genetics	Lab 12: DNA a Electrophoresis SG10/12 due b 11:59PM	3	Review Ch. 10/12, Biotechnology assignment
JULY	3	4	5		6	7
Mastering Activities (Ch. 8-10/12) due by 11:59PM	EXAM 4 Chapters 8, 9, 10, 12	HOLIDAY- NO CLASS SG13 and Ch. 13 Mastering Activity due by 11:59PM	Review Ch. 13, Final Exam Review	Lab Practical Labs 7-12	<u>2:</u>	FINAL EXAM- All chapters

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 Student_Handbook_2022-2023_v4.pdf (com.edu). 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 klachney@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 1st 5-week session is June 30. The last date to withdraw from the 10-week session is July 31. The last date to withdraw for the 2nd 5-week session is August 4.

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 <a href="maintenance-dean-to-de