



**BIOL 1407.102HyBrid**  
**Biology for Majors II**  
**Spring 2021**  
**T 1:30-4:20, Math/Science 153**

**Instructor Information:**

**Christopher Hall**

E-mail: [chall23@com.edu](mailto:chall23@com.edu)

Office Telephone: (409)933-8328

**Office Hours and Location:**

**Office Hours**

Wednesday 8 - 12

Thursday 8 - 11:30

**Office:** MS-119. Office Hours will be online this semester.

Course Communication: Email preferred method of communication. Office phone during office hours.

**Course Information**

**Required Textbook:**

- *Campbell Biology* e-text with Mastering Biology 11<sup>th</sup> edition. You may also purchase any *recent* edition of Campbell Biology as long as you have an access code for the Mastering Biology content. The Mastering content will be available through BlackBoard.
- Textbooks and/or courseware will be available through VitalSource digitally. Cost of the course materials for this section will be \$68.75. The course materials will be available on the first day of class and you will be given the opportunity to opt-out of the e-book prior to the census day of the class. If you choose not to use the course materials, you will be reimbursed after census day of the class. The materials are not refundable after the census day. You will receive an email with more information about the use of the course materials closer to the start of the semester.

**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.

**Course Description**

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Prerequisites: CPT Reading 78/READ 0370. Successful completion of BIOL 1406 is recommended.

**Course Requirements**

**Required Online Resources**

- COM Blackboard: <https://de.com.edu/webapps/login/>. ***COM Blackboard will be used for online activities, accessing your lab papers, quizzes, and more.*** In addition, Blackboard will allow students to communicate with each other and the instructor. Many class resources will be available through Blackboard. Training is required to access Blackboard. If you have any questions regarding course access or training, please contact the Distance Education department ([www.com.edu/de/index.cfm](http://www.com.edu/de/index.cfm)) at extension 8476.
- Mastering Biology Course – **Login will be completed through Blackboard**  
Each student must purchase an access code in order to complete the assignments through the Mastering Biology website. These access codes may be purchased at the COM Bookstore or through the Mastering Biology website which is linked to your Blackboard course page. The cost for the Mastering Biology content alone is around \$70 and for Mastering Biology and the e-text. You will have several assignments on Mastering Biology for each topic covered. There may be some changes to this structure since we are mostly online for the entire semester.

**Required Materials**

- Computing resources, reliable internet, and PPE to wear during labs. Only a mask is required for the labs.

**Suggested/Recommended Texts & Other Readings and Supplies**

Photographic Atlas for Biology

Colored pencils/pens to make notes and drawing in class/lab.

Camera to photograph specimens and lab activities, not required, but would be very useful.

## **Determination of Course Grade/Detailed Grading Formula:**

### **Lecture Grade (800 points) :**

1. Lecture exams (300 points) – A total of three exams will be given throughout the semester (see Tentative Course Outline). The material will be from your lectures, chapter reviews, and your textbook. Each exam will be worth 100 points. Each exam will be performed in class during the times outlined in the syllabus. ***There will not be any online exams during this semester!***
2. Additional Assignments (150 points) – There will be (6) assignments focusing on groups of organisms, with questions and activities related to that topic. Each is worth 25 points. You will download and complete these assignments and submit them during our regular lab meetings, almost weekly.
3. Chapter Reviews (250 points) - There will be chapter reviews over the topics covered during the course. There are 10 separate reviews. Each review will be worth 25 points. You will download and complete these assignments and submit them during our regular lab meetings, almost weekly.
4. MasteringBiology (~100 points) - For each topic covered in lecture, you will have assignments using Mastering Biology. They are usually around 10 points each.

### **Laboratory Grade ( 485 points):**

1. Labs (275 points) – You will be required to complete and submit all labs related to the topics that we are covering during the semester. Each lab has a corresponding worksheet to be completed related to anatomy, distinguishing characteristics, etc. For the labs, you will complete the lab and submit them during lab times. You will perform lab activities, then you will finish the labs by completing the questions and adding any important materials from other sources, after lab. You will be provided labs that you can download from BlackBoard. As a rule, the current lab will be due the following week during the lab meetings. You must submit your labs to me in person during lab meetings and not online. I will not accept any labs online. Due dates are in the course calendar/syllabus. 25 points each. ***You may not submit any lab that you missed in person. If you do not attend the lab, you will not be allowed to turn in the lab at a later time.***
2. Lab Attendance (110 points) (11 labs x 10 points/ea = 110)– Heavy weight has been placed on attendance to the labs for the semester. If you miss any labs, you will not receive the points for that day. 10 attendance points will be given for each day of attendance earned along with the lab worksheets.
3. Lab Final (100 points) – There will be a comprehensive lab final that will cover all labs covered during the semester. It will be at the end of the semester (Check syllabus for dates). It will be held in the lab room. Times will be set up during the semester to allow students to start at slightly different times – like a conveyor belt, moving thru stations that have been set out in the lab room.

***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.***

### **Determination of Course Grade:**

#### **Lecture Grade (800 points)**

Lecture exams	300 points
Additional Assignments	150 points
Chapter Reviews	250 points
MasteringBiology	100 points

#### **Laboratory Grade (485 points)**

Labs (11 labs/25 pts each)	275 points
Lab Attendance (Mandatory)	110 points
Comprehensive Lab Final	100 points

---

**Total Possible Points**

**1285 Points**

## Tentative Course Calendar

BIOL1407 Schedule Spring 2021 T 1:30	Readings, Lab(s), Activities	Red = Represents Exams
1 01/18-01/22	No Lab <ul style="list-style-type: none"> <li>• Chapter 23</li> <li>• Chapter 24, 25, and 34.7</li> </ul>	Online Introductions
2 01/25-01/29	Introduction, Lab Safety Lab - 1 Hominid Evolution <ul style="list-style-type: none"> <li>• Cover Syllabus</li> <li>• Ch 24,25, and 34.7</li> <li>• Selected portions from Chapters 52, 54-56</li> <li>• Ch 26</li> </ul>	Groups 1&2 – T – 01/26 All groups go on same day Mastering Assignment 1
3 02/01-02/05	Lab 2 -Prokaryotes – Online Chapter 27	Mastering Assignment 2
4 02/08-02/12	Lab - 3 Protists Lab Chapter 28	Groups 1&2 – T – 02/09 All groups go on same day Submit Labs 1 & 2 Mastering Assignment 3
5 02/15-02/19	<b>Exam I – This Week – NO LABS            In Person Testing</b>	Groups 1&2 – T – 02/16 All groups go on same day Mastering Assignment 4
6 02/22-02/26	Lab - 4 Seedless Plants Chapter 29	Groups 1&2 – T – 02/23 All groups go on same day Submit Lab 3 - Protists Mastering Assignment 5
7 03/01-03/05	Lab – 5 & 6 Seed Plants Lab – Chapter 30 & Plant Form and Function Lab Chapter parts of 35 and 39	Groups 1&2 – T – 03/02 Submit Lab 4 - Seedless Plants All groups go on same day Mastering Assignment 6
8 03/08-03/12	Lab – 7 Fungi - Lab	Groups 1&2 – T – 03/09 Submit Lab 5&6 – Seed Plants All groups go on same day Mastering Assignment 7
9 03/15-03/21	<b>Spring Break – NO LABS</b>	
10 03/22-03/26	<b>Exam II – This Week -NO LABS            In Person Testing</b>	Group 1&2 – T – 03/23 All groups go on same day
11 03/29-04/02 Good Friday	Lab – 8&9 Animal Labs I and II Review major groups Porifera and Lophotrochozoan	Group 1&2 – T – 03/30 Submit Lab 7 - Fungi All groups go on same day Mastering Assignment 8

	Chapters 32-33	
12 04/05-04/09	Lab - 10 Ecdyzoans Chapter 33 Cont'd	Groups 1&2 – T – 04/06 Submit LabS 8&9 – Animals I&II All groups go on same day Mastering Assignment 9
13 04/12-04/16	Lab- 11 Deuterostomes Chapter 34 Animal Behavior Select parts of Chapter 40 and 51	Groups 1&2 – T – 04/13 Submit Lab 10 - Ecdyzoans All groups go on same day Mastering Assignment 10
14 04/19-04/23	Lab Practical Pertains to materials covered during all labs.	Groups 1&2 – T – 04/20 Submit Lab 11 - Deuterostomes All groups go on same day
15 04/26-04/30	Exam III – This Week -NO LABS In Person Final Meeting	Groups 1&2 – T – 04/27 All groups go on same day

### Grading Scale:

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

Letter Grade	Average (%)
A	90 - 100
B	80 – 89
C	70 – 79
D	60 – 69
F	0 – 59

### Make-Up Policy:

- **Lecture Exams:** Should you anticipate an absence on an exam day you must contact your instructor by email or in person PRIOR to the absence. Your situation will be evaluated by your instructor and at the discretion of your instructor 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 illness. You must provide legitimate proof for your excuse in the case of missing an exam. Only one make-up exam is allowed during the semester. The make-up exam MUST be taken at the end of the semester, after you complete all your other course work. No lab exams can be made up. If you have a legitimate excuse, as outlined above, then we will discuss your options should the situation arise.
- **Assignments:** 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. You will have strict dates and times to submit your work. Late work may be accepted at your instructors discretion.
- **Online Assignments:** Ample time is given for each student to complete the online assignments (Mastering Biology assignments, discussions, exams, labs, etc.). Failure to meet these deadlines will result in a ZERO for the assignment and no extra time will be allowed to make-up the assignment. In the event of an internet outage or other internet issue, at the discretion of your instructor, your assignment may be reset to allow you to take it again. Contact must be made with your instructor within 24 hours of the problem.
- **Labs:** There are NO MAKE-UP LABS. Arriving late to lab will 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 contact your instructor to inform them of your absence.

### 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 Blackboard, but it is your responsibility to obtain any additional notes from a classmate.

### **Laboratory Attendance Policy**

- 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.

### **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 **April 26th**. 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” or “F/N” for the class. Students are only permitted to withdraw six times during their college career by State law.

### **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.

### **Early Alert Program:**

The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention is 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.

### **Disclaimers/Additional Policies:**

#### **Honors Credit**

Students wishing to receive honors credit for this class must discuss this with the professor before the eighth week of classes.

#### **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.

#### **Plagiarism:**

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 **grade of zero** and the student will be referred to the Office of Student Conduct for the appropriate discipline action. **Link(s) to resource(s) about avoiding plagiarism:** <https://owl.english.purdue.edu/owl/resource/589/01/>

#### **Student Concerns/Questions Statement:**

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 Mrs. Sheena Abernathy at ext. 8330, and [sabernathy@com.edu](mailto:sabernathy@com.edu)

## Student Learner Outcomes:

<b>Student Learner Outcomes</b>	<b>Core Objectives</b>	<b>Assessed Via this Assignment</b>
1. Students will be able describe and demonstrate knowledge of modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.		
2. Students will demonstrate the ability to describe and distinguish between phylogenetic relationships and classification schemes.		
3. Students will demonstrate the ability to identify major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptation, evolutionary history, and ecological significance.		
4. Students will be able to describe basic animal physiology and homeostasis as maintained by organ systems.		
5. Students will demonstrate the ability to compare different sexual and asexual life cycles noting their adaptive advantages.	Critical Thinking	In class activity
6. Students will be able to illustrate the relationship between major geologic change, extinctions, and evolutionary trends.	Empirical and Quantitative Skills	Case Study
7. Students will apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.	Empirical and Quantitative Skills	Lab Activities
8. Students will demonstrate their ability to use critical thinking and scientific problem-solving to make informed decisions in the laboratory.	Critical Thinking	Lab Activity
9. Students will demonstrate their ability to communicate effectively the results of scientific investigations.	Communication skills (CS1)	Presentation
10. Students will demonstrate the ability to work effectively with others to support and accomplish a shared goal, while recognizing and respecting different viewpoints.	Team Work	Presentation

### **QEP (Quality Enhancement Plan):**

This class has been selected to include oral communication in its curriculum, as part of College of the Mainland's Quality Enhancement Plan (QEP) on oral communication across the curriculum. A small percentage of classes will also be video recorded for institutional purposes.

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

### **Classroom Conduct Policy:**

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 should act in a professional manner at all times. Disruptive students will be held accountable according to college policy. Any violations of the Code of Conduct will result in a referral to the Office for student Conduct and may result in dismissal from this class.



## **Behavioral Expectations**

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 phone use during class is not permitted. If I see repeated violations of this rule, you will be asked to leave the class and you will not get credit for that day's work. Lap tops are ONLY permitted during class to take notes. *First offense:* a warning and you will be allowed to stay in class.
  - a. *Additional Offenses:* you will be asked to leave the class/lab and receive an absence for the day.
  - b. *During exams, no electronics will be allowed out. If the student has any of these devices out during an exam, the exam will be taken from the student and they will receive a zero for that exam.*
2. Due to safety reasons, friends, spouses, and children are not allowed in lab.
3. 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 required to meet with Kris Kimbark, Associate VP for Student Success and Conduct, before being allowed to return to class if the instructor allows it.

## **Success Tips for Students:**

### **Build Rapport**

If you find that you have any trouble keeping up with assignments or other aspects of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships are key to becoming an effective professional. Make sure that you are proactive in informing your instructor when difficulties arise during the semester so that they can help you find a solution.

## **Success Tips for Students:**

### **10 Tips to Succeed in Class**

1. **Come to class.** In some courses all you have to do is read the book; that's not the case here. The lecture will key you in to what is important and what isn't; it will also provide a framework to stuff all the facts into. If you must miss class, get the notes from a fellow student or the web, and then go over the notes with someone who was present at the live lecture.
2. **Take notes.** Everything that really matters will be discussed in class; the book is really just for back up. The Powerpoints are posted online to help you fill in anything you missed. Taking notes helps you pay attention in class and remember the material.
3. **Form a study group or partnership.** Don't try to do it alone. Study groups are generally good because they help you go over the material, give you an opportunity to practice explaining your answers, and provide moral support.
4. **Do the problems.** Seriously and carefully. Do the problems at the back of each chapter and in Mastering Biology. In addition, Mastering Biology has a Study Area that you can take practice quizzes and watch videos and animations.
5. **Make diagrams,** pictures, summary charts, concept maps, etc. The ones in the book (and the ones handed out in class) may be good, but for best results, you should make your own.
6. **Keep up.** The current material is always based on what came before, so once you get behind it is very difficult to catch up. Some students find it is very helpful to quickly look over the notes of the previous lecture right before the current one.
7. **Read** one of the texts before class if the material is new to you. It is very hard to follow the lecture if every word and concept is unfamiliar.
8. **Ask questions.** If you don't understand something, ASK. The more effort you put into asking questions, the more you will get out of the answers.
9. **Master the vocabulary.** The stress in this course may be on *using* the vocabulary, but you won't get anywhere until you learn it first. So try to master all new terms as fast as possible.
10. **See Me.** Talk to me if you're having trouble in the course either in person or by email. Don't let things pile up. Address them early.

### **Links and Resources on how to Succeed in Biology**

<http://courses.ttu.edu/biol1403-mdini/Regular/howtostudybiology.html>

<http://www.elsevier.com/connect/11-pointers-for-college-success-from-a-professor-and-dad>

The "A" Game book (available in the COM bookstore)

Get Ready for Biology book (can be found online at Amazon, Barnes & Noble, etc)

## **The Tutoring Center:**

The Tutoring Center provides free tutoring services to students, staff and faculty seeking assistance for writing, reading and oral presentations for academic and non-academic assignments/projects. Located in the Technical Vocational Building, Room

1306, the center provides face-to-face and online tutoring sessions in a welcoming environment. Appointments can be made in person, or on the center scheduler at [com.mywconline.com](http://com.mywconline.com), or by clicking the SRWC icon on the COM website.

**Speaking Reading and Writing Center:**

The Speaking, Reading and Writing Center provides free tutoring services to students, staff and faculty seeking assistance for writing, reading and oral presentations for academic and non-academic assignments/projects. Located in the Technical Vocational Building, Room 1306, the center provides face-to-face and online tutoring sessions in a welcoming environment. Appointments can be made in person, or on the center scheduler at [com.mywconline.com](http://com.mywconline.com), or by clicking the SRWC icon on the COM website.

**ADA Statement:**

Any student with a documented disability needing academic accommodations is requested to contact Holly Bankston at 409-933-8520. The Office of Services for Students with Disabilities is located in the Student Success Center.

**Counseling Center Website:** <http://www.com.edu/student-services/counseling.php>

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

**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](http://www.com.edu/coronavirus). Students are required to watch a training [video](#), complete the [self-screening](#), and acknowledge the safety guidance at: [www.com.edu/selfscreen](http://www.com.edu/selfscreen). In addition, students, faculty, and staff must perform a [self-screening](#) prior to each campus visit. Finally, students, faculty, or staff which have had symptoms of COVID-19, received a positive test for COVID-19, or have had close contact with an individual infected with COVID-19 must complete the [self-report tool](#).

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