



**BIOL 1409.101H2**  
**Biology for Non-Science Majors II**  
**Spring 2025**  
**Lecture Online through Brightspace/D2L**  
**Lab W 9:00-11:50am League City RM143**

**Instructor Information: Sheena Abernathy**

E-mail: [sabernathy@com.edu](mailto:sabernathy@com.edu) (preferred method of communication)

Office Telephone: (409)933-8330

**Student hours and location:**

**Office Hours:** Monday 10:00am-1:30pm, Tuesday 8:00am-9:30am, Wednesday 8:00am-9:00am (Virtual/LGC), Thursday 8:00am-9:30am, Or by appointment

**Virtual Student Hours:** During my virtual student hours I will respond to emails as quickly as they come in and I am able to during those times. I will be available to meet with you through Microsoft Teams, but you will need to contact me ahead of time to schedule the meeting.

**Office:** STEM 325-39 (Main Campus)/RM143(League City)

**Required Textbook, Materials, and Resources:**

**Required Textbooks**

- *Campbell Essential Biology with Physiology*, Simon, Dickey, Hogan, and Reece e-text with Modified Mastering Biology. Pearson. 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. You must have access to these resources to successfully complete this course.

**Required Resources**

**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
- **Respondus Lockdown Browser and Monitor**
- **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:**

A survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. 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. Successful completion of BIOL 1408 with a grade of "C" or better is recommended.

**Course Requirements:**

MasteringBiology – 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.

Chapter Study Guides – For each online module you will complete a chapter study guide. This study guide acts as both your “guided notes” as you read through the chapter and lecture slides, as well as a review for Lecture Exams and the Comprehensive Final Exam.

Lecture Exams and Comprehensive Final Exam – both lecture exams and the final exam will be taken in D2L and will consist of multiple choice, T/F, diagram identification, and short answer style questions. You will be required to use Respondus Lockdown Browser and Webcam for online exams.

Lab Activities – you will be completing graded lab activities in class and online through Mastering Biology. These labs will be what your lab practicals are based off, so it is crucial that you complete the various lab activities.

Lab Practicals – lab practicals will be taken in class and 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.
- Respondus Lockdown Browser (available through Brightspace/D2L) and a **webcam** for Respondus Monitor for lecture exams and final exam.

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

**Lecture Grade:**

1. Lecture exams (200 points) – A total of two lecture exams, each worth 100 points, will be given throughout the semester (see Tentative Course Outline).
2. Chapter Study Guides (90 points) – you will complete a Chapter Study Guide for the various chapters to be turned in via Brightspace/D2L. These study guides also serve as the review for exams.
3. Mastering Biology Activities (90 points) – you will have Mastering Biology Activities for each section of material covered in the Learning Modules.
4. Lecture Quizzes (60 points) – you will have six Lecture Quizzes in class covering material in the various Learning Modules.
5. Discussion Posts (100 points) – you will have various discussion posts in Brightspace/D2L to complete throughout the semester.
6. Comprehensive Final Exam (150 points)– covers ALL the material presented in lecture and assigned as reading throughout the semester.

**Laboratory Grade:**

1. Skulls Activity (20 points) – you will be examining hominin evolution through a skulls comparison activity.
2. Lab Activities (100 points) – Each section of material will have a lab activity associated with the material covered in lecture. Some labs will be completed in D2L using Mastering Biology and some will be in class.
3. Lab Practical (150 points) – one lab practical will be given at the end of the semester covering material from past labs.

**Determination of Course Grade (Total 900 points)**

Lecture Grade

|                              |            |
|------------------------------|------------|
| Lecture exams                | 200 points |
| Chapter Study Guides         | 90 points  |
| Mastering Biology Activities | 90 points  |
| Lecture Quizzes              | 60 points  |
| Discussion Posts             | 100 points |
| Comprehensive Final Exam     | 150 points |

Laboratory Grade

|                 |            |
|-----------------|------------|
| Skulls Activity | 20 points  |
| Lab Activities  | 100 points |
| Lab Practical   | 100 points |

**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%  |
| B            | 79.5% - 89.4% |
| C            | 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 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.

- MasteringBiology Activities and Labs have an extended deadline that results in a 15% 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 and assessment deadlines.
- Chapter Study Guides have an extended deadline of typically 1 day that results in a 15% loss of points if submitted after the original deadline. The extended deadline for the Chapter Study Guides is posted in the course schedule. Please use the course outline to help schedule your time for the course to assure that you meet the assignment and assessment deadlines.
- Lab Activities (In Person), Lecture Quizzes, and Discussion Board Postings have no extended deadline
- Lecture Exams, Final Exams, and Lab Practicals have no extended deadline.

**Make-Up Policy:**

- MasteringBiology Activities and Labs, and Chapter Study Guides do not have a make-up policy due to the extended deadline.
- Lecture Exams and Final Exams: Ample time is given to complete the online exams and there are no make-up exams offered.
- Lab Practical: Should you anticipate an absence on the day of the Lab Practical you must contact your instructor PRIOR to the absence. Your situation will be evaluated, 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. The make-up exam MUST be taken within one week of the original exam date. Missed exams will not be allowed without documented evidence.
- Labs (In Person): 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.

**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:**

**In Person Portion:** 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.

**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 environmental science, 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.

**Online Portion:** Students are expected to actively participate in their online course. In order to be counted as present in the online portion of this course, you must log in at least **2 times per week** to participate in the class, complete assignments, print notes, or complete quizzes. This policy follows the attendance policies prescribed in the 2023-24 College Catalog (<http://coursecatalog.com.edu/>). Failing to log in to Brightspace/D2L, failing to log in to Mastering Biology, or failing to complete your work as scheduled demonstrates insufficient progress towards obtaining the course goals (objectives) and is detrimental to learning course material.

**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. Describe modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.  |                   |                           |
| 2. Describe phylogenetic relationships and classification schemes.  | Critical Thinking | Class Activity/Case Study |
| 3. 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. Describe basic animal physiology and homeostasis as maintained by organ systems.   |                   |                           |

|  |                                   |                  |
|--|-----------------------------------|------------------|
| 5. Demonstrate the ability compare different sexual and asexual life cycles noting their adaptive advantages.  |                                   |                  |
| 6. Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.  |                                   |                  |
| 7. 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. Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.  |                                   |                  |
| 9. Communicate effectively the results of scientific investigations.   | Communication                     | Project          |
| 10. Students will demonstrate the ability to work effectively with others to support and accomplish a shared goal while recognizing and respecting different viewpoints. | Teamwork                          | Discussion Posts |

**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:** 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 Dean of Academic Programs, Dr. Barney at (409)933-8727 or [rbarney@com.edu](mailto:rbarney@com.edu).

**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 [https://www.com.edu/student-services/docs/Student\\_Handbook\\_2024-2025\\_v2.pdf](https://www.com.edu/student-services/docs/Student_Handbook_2024-2025_v2.pdf). 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 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. **During exams, no electronics will be allowed out. Items not allowed include, but are not limited to, cell phones, laptops, tablets, ear buds, headphones. 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. 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

**Spring 2025 Tentative Course Outline:**

| <b>Week/<br/>Class<br/>Day</b> | <b>Lecture Topics</b>   | <b>Online Mastering Biology and D2L<br/>Assignments</b>                                     | <b>Due<br/>Dates</b>                 | <b>Lab Day Activities</b>                                   |
|--------------------------------|---|---|--------------------------------------|---|
| 1<br>(3/12)                    | <b>Chapter 14</b> – How Biological Diversity Evolves<br><b>Chapter 15</b> – The Evolution of Microbial Life   | About Me Discussion Posting<br>Intro to Mastering Biology (MB)<br>How DSMs Work (MB)        | W, 3/12                              | Intro to Course<br>Lab Safety<br>Hominid Skulls Activity    |
|                                |   | Ch. 14/15 Activity (MB)<br>Ch. 14/15 Study Guide (D2L)*<br>DB – Introspections Week 1 (D2L) | F, 3/14<br><i>*Extended<br/>3/15</i> |   |
| <b>SPRING BREAK</b>            |   |   |                                      |   |
| 2<br>(3/26)                    | <b>Chapter 16 Part A</b> – The Evolution of Plants and Fungi<br><b>Chapter 28/29</b> – Plant Structure and Function   | <b>Practice Quiz Due</b><br>Lab 1 – Natural Selection Interactive Lab (MB)                  | M, 3/24                              | Lab 2 – Prokaryotes and Protists<br>Lecture Quiz #1         |
|                                |   | Ch. 16 Part A/28-29 Activity (MB)<br>Ch. 16 Part A/28-29 Study Guide (D2L)*                 | F, 3/28<br><i>*Extended<br/>3/29</i> |   |
| 3<br>(4/2)                     | <b>Chapter 16 Part B</b> – The Evolution of Plants and Fungi<br><b>Chapter 17 Part A</b> – The Evolution of Animals   | DB – Plant Adaptations (D2L)  | M, 3/31                              | Lab 3 – Plants Part A and B<br>Lecture Quiz #2<br>The Lorax |
|                                |   | Ch. 16 Part B/Ch. 17 Part A Activity (MB)<br>Ch. 16 Part B/Ch. 17 Part A Study Guide (D2L)* | F, 4/4<br><i>*Extended<br/>4/5</i>   |   |
| 4<br>(4/9)                     | <b>Chapter 17 Part B and C</b> – The Evolution of Animals   | DB – The Lorax  | M, 4/7                               | Lab 4 – Fungi<br>Lab 5 – Animals I<br>Lecture Quiz #3       |
|                                |   | Ch. 17 Part B and C Activity (MB)<br>Ch. 17 Part B and C Study Guide (D2L)*                 | F, 4/11<br><i>*Extended<br/>4/12</i> |   |
| 5<br>(4/16)                    | <b>Chapter 21</b> – Unifying Concepts of Animal Structure and Function<br><b>Chapter 22</b> – Nutrition and Digestion<br><b>Chapter 23</b> – Circulation and Respiration<br><b>Chapter 24</b> – The Body's Defenses | <b>EXAM 1 (Ch. 14-17 Part A, 28, 29) (D2L)</b>  | <b>M, 4/14</b>                       | Lab 6 – Animals II and III<br>Lecture Quiz #4               |
|                                |   | Ch. 21-24 Activity (MB)<br>Ch. 21-24 Study Guide (D2L)*<br>DB – Introspections Week 5 (D2L) | F, 4/18<br><i>*Extended<br/>4/19</i> |   |
| 6<br>(4/23)                    | <b>Chapter 25</b> – Hormones<br><b>Chapter 26</b> – Reproduction and Development<br><b>Chapter 27</b> – Nervous, Sensory, and Locomotor Systems   | Lab 8 – Chapters 21-22 Lab (MB)<br>Lab 9 – Chapter 23-24 Lab (MB)                           | M, 4/21                              | Lab 7 – Animals IV<br>Lecture Quiz #5                       |
|                                |   | Ch. 25-27 Activity (MB)<br>Ch. 25-27 Study Guide (D2L)*                                     | F, 4/25<br><i>*Extended<br/>4/26</i> |   |
| 7<br>(4/30)                    |   | Lab 10 – Chapter 25-27 Lab (MB)<br>DB – Understanding Body Systems (D2L)                    | M, 4/28                              | Open Review<br>Lecture Quiz #6                              |
|                                |   | <b>EXAM 2 (Ch 17 Part B and C, 21-27) (D2L)</b>   | <b>F, 5/2</b>                        |   |
| 8<br>(5/7)                     |   | DB – Introspections Week 8 (D2L)  | M, 5/5                               | <b>Lab Practical</b>  |
|                                |   | <b>Comprehensive Final Exam</b>   | <b>TH, 5/8</b>                       |   |

A note about assignments listed in the Course Schedule:

- Assignments that can be found in Mastering Biology will be indicated with an “MB” beside them.
- Assignments that are in D2L will be indicated with a “D2L” beside them.

## 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://www.com.edu/student-services/docs/Student\\_Handbook\\_2024-2025\\_v2.pdf](https://www.com.edu/student-services/docs/Student_Handbook_2024-2025_v2.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.*

**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, Student Accessibility Services Coordinator

Phone: 409-933-8919

Email: [AccessibilityServices@com.edu](mailto:AccessibilityServices@com.edu)

Location: COM Doyle Family Administration Building, 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 1<sup>st</sup> 8-week session is February 26. The last date to withdraw from the 16-week session is April 21. The last date to withdraw for the 2<sup>nd</sup> 8-week session is April 30.

**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](mailto:deanofstudents@com.edu) or [communityresources@com.edu](mailto:communityresources@com.edu).

### Nondiscrimination Statement:

The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.