



GEOL 1405.102HY
Environmental Science
Spring 2023
Lecture – Online through D2L
Lab – TTH 8:00am-9:20am STEM 307

Instructor Information: Sheena Abernathy

E-mail: sabernathy@com.edu (preferred method of communication)
Office Telephone: (409)933-8330

Student hours and location:

Office Hours: Monday 10:00am-1:30pm, Tuesday 7:30am-8:00am and 1:30pm-2:30pm, Wednesday 10:00am-11:00am(Virtual), Thursday 7:30am-8:00am and 1:30pm-2:30pm(Virtual), 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

Required Textbook, Materials, and Resources:

Required Textbooks

- *Environment The Science Behind the Stories* e-text with Mastering Environmental Science 7th ed. **Note:** The e-book and Mastering Environmental Science (MES) 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.

Required Materials

- Scantrons (4) – 882E given to the professor by Thursday, January 26th in class.

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.
- Mastering Environmental Science with eText – **Login will be completed through Brightspace/D2L.**

Course Description:

A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. 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.

Course Requirements:

Lectures/Labs – each week we will be covering material during class time and this material will involve lecture and/or lab each day.

Mastering Environmental Science (MES) – you will have weekly assignments 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.

In class work/homework – 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.

Lecture Exams and Comprehensive Final Exam – 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.

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

Lab Quizzes – to prepare you for the Lab Practical, you will have lab quizzes throughout the semester. Questions on the Lab Quizzes will be similar to what you will see on the Lab Practical.

Lab Practical – the lab practical is an exam 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.

Computer Requirements

You will need 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.

Determination of Course Grade/Detailed Grading Formula:

Lecture Grade (75%):

1. Lecture exams (30%) – A total of three lecture exams, each worth 100 points, will be given throughout the semester during the face-to-face lab period (see Tentative Course Outline).
2. In class work/homework (10%) – Various in class and/or homework assignments will be given throughout the semester.
3. MES Chapter Assignments (10%) – you will have various homework assignments that cover topics discussed in class.
4. MES Practice Quizzes (10%) – for each exam, you will have a practice quiz to be completed in MES.
5. Comprehensive Final Exam (15%) – covers ALL the material presented in lecture and assigned as reading throughout the semester.

Laboratory Grade (25%):

1. Lab Daily Grade (5%) – each lab will have activities to be completed for a portion of your lab daily grade.
2. Lab Quizzes (10%) – lab quizzes will be given that cover material from previous lab activities
3. Lab Practical (10%) – one lab practical will be given at the end of the semester covering material from previous labs.

Determination of Course Grade

Lecture Grade (75%)

Lecture exams	30%
In class work/homework	10%
MES Chapter Assignments	10%
MES Practice Quizzes	10%
Comprehensive Final Exam	15%

Laboratory Grade (25%)

Lab Daily Grade	5%
Lab Quizzes	10%
Lab Practical	10%

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 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.

- MES Chapter Assignments and Practice Quizzes have an extended deadline that results in a 15% loss of points for each day the assignment is late. After missing the initial deadline, the maximum grade is 85%. Please use the course outline to help schedule your time for the course to assure that you meet the assignment and assessment deadlines.
- Lecture Exams and Lab Practical are scheduled to be taken in class and have no extended deadline.
- Labs will be completed in class and students that are not in class will not be allowed to complete the activity.
- In class work/homework if work is given during class to be completed in class, there is no extended deadline and students that are not in class will not be allowed to complete the activity. If homework is assigned, students will have ample time to complete the work and no extended deadlines are provided.

Make-Up Policy:

- MES Assignments and Practice Quizzes do not have a make-up policy due to the extended deadline.
- Lecture Exams: Should you anticipate an absence on an exam day 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.
- 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: 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.
- In class work/homework 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.

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 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. Failing to log in to D2L, failing to log in to Mastering Environmental Science, or failing to complete your work as scheduled demonstrates insufficient progress towards obtaining the course goals (objectives) and is detrimental to learning course material.

ON CAMPUS Lab Portion: Students are expected to attend all class sessions as listed on the course calendar. Attendance will be taken at the beginning of each lab. Leaving early from lab (without approval from the instructor) may result in an absence for that day. If you miss a lab, you will receive a zero for the lab material covered 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.

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	Assessed Via this Assignment
1. Recognize, describe, and quantitatively evaluate earth systems, including land, water, sea, and atmosphere, and how these function as interconnected ecological systems.	Empirical and Quantitative	Exams
2. Assess environmental challenges facing humans caused by their interaction with the physical and biological environment (e.g. population growth, energy resources, food production, pollution, water and resource use).	Critical Thinking	Exams
3. Acquire a scientific vocabulary and critical thinking skills related to environmental science.	Critical Thinking	Exams
4. Assess the effectiveness and feasibility of environmental policy and its impacts.	Critical Thinking	Exams
5. Apply the scientific method to environmental investigation.	Communication	Lab Activity
6. Measure and observe aspects of the environment (e.g., air, water, soil) through sampling and sample analysis.	Empirical and Quantitative	Lab Activity
7. Develop an assessment plan for an environmental case study.	Critical Thinking	Lab Activity
8. Demonstrate the collection, analysis, and reporting of data.	Communication	Lab Activity
9. Students will demonstrate the ability to work effectively with others to support and accomplish a shared goal, while recognizing and respecting different viewpoints.	Teamwork	Lab Activities

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.

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/student-handbook.html>. 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.

Online 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. 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.

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. The use of headphones, earbuds, or any other such device is not allowed during lecture. In addition, these devices are strictly not permitted during exams.
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 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.

Spring 2023 Tentative Course Outline

Week	Lab Meetings	Online Lecture Material	Assignment(s) Due Dates
1	Tue 1/17	Intro to Course	<ul style="list-style-type: none"> ○ 1/19- Student Info Sheet ○ 1/20-Intro to MES, How DSMs Work, and About Me Discussion Board ○ 1/22-MES Chapter 1 Assignment
	Thu 1/19	Lab Safety	
2	Tue 1/24	Lab 1 – Biogeochemical Cycles	<ul style="list-style-type: none"> ○ 1/26-4 Scantrons to Professor ○ 1/29-MES Chapter 2 Assignment
	Thu 1/26		
3	Tue 1/31	Lab 1 – Cont'd Lab 2 – Plankton Identification	<ul style="list-style-type: none"> ○ 2/5-MES Chapters 3/11 Assignment
	Thu 2/2		
4	Tue 2/7	Lab 1 – Cont'd (if needed) Lab 3 – Changing Ecosystems	<ul style="list-style-type: none"> ○ 2/12-MES Chapters 4/5 Assignment
	Thu 2/9		
5	Tue 2/14	In Class Activity	<ul style="list-style-type: none"> ○ 2/13-Practice Quiz #1
	Thu 2/16	Exam 1 (Ch.1-5,11)	
6	Tue 2/21	Lab 4 – Wolves in Yellowstone	<ul style="list-style-type: none"> ○ 2/26- MES Chapters 6/7 Assignment
	Thu 2/23		
7	Tue 2/28	Lab 5 – Ecological Footprint	<ul style="list-style-type: none"> ○ 3/5- MES Chapter 8 Assignment
	Thu 3/2		
8	Tue 3/7	Lab 6 - Soils	<ul style="list-style-type: none"> ○ 3/19-MES Chapter 9 Assignment
	Thu 3/9		

SPRING BREAK (3/13-3/17)

9	Tue 3/21	In Class Activity		○3/20-Practice Quiz #2
	Thu 3/23	Exam 2 (Ch.6-9)		
10	Tue 3/28	Lab 7 -	<u>Chapter 15</u> Freshwater Systems	○4/2-MES Chapter 15 Assignment
	Thu 3/30			
11	Tue 4/4	Lab 8 – Water Quality Testing	<u>Chapter 16</u> Marine and Coastal Systems	○4/9-MES Chapter 16 Assignment
	Thu 4/6			
12	Tue 4/11	Lab 9 – Air Quality Testing	<u>Chapter 17</u> Atmosphere, Air Quality, and Pollution Control	○4/16-MES Chapter 17 Assignment
	Thu 4/13			
13	Tue 4/18	Lab 10 – Renewable and Nonrenewable Energy	<u>Chapter 19</u> Fossil Fuels and Energy Efficiency <u>Chapter 20</u> Conventional Energy Alternatives	○4/23-MES Chapters 19/20 Assignment “W” Day for Dropping April 24th
	Thu 4/20			
14	Tue 4/25	In Class Activity/Review	<u>Chapter 21</u> Renewable Energy	○4/30-MES Chapter 21 Assignment
	Thu 4/27	Lab Practical		
15	Tue 5/2	In Class Activity		○5/1-Practice Quiz #3
	Thu 5/4	Exam 3 (Ch. 15-17, 19-20)		
16	Tue 5/9	Comprehensive Final Exam		
	Thu 5/11	Grade Review Day		

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook [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 8-week session is March 1. The last date to withdraw from the 16-week session is April 24. The last date to withdraw for the 2nd 8-week session is May 3.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.