

INTRODUCTION TO ENVIRONMENTAL AND ENGINEERING GEOLOGY

UNIVERSITY OF FLORIDA, GLY2030C FALL 2019

CONTACT

Dr. Anita Marshall



anita.marshall@ufl.edu



Williamson Hall 225



352-273-3365



Office: T/R, 10- 12, or by
appointment

Welcome to Environmental & Engineering Geology! And if you are new to geology all together, welcome to geology! In this course we explore the fundamental concepts of geology and investigate the interactions of nature and people (both individually and as a society) including natural hazards, resource utilization and environmental issues. Please read through the syllabus for important information to help you succeed in this course.

ACCESSING THE COURSE & COURSE MATERIALS

Course Webpage: Access this course by logging in at:
<https://elearning.ufl.edu/>.

Course-related questions: Please post general questions about the course in the Discussion Forum so the question can be answered for everyone. Before posting, please check to see if you question has already been asked and answered. Personal questions (grades, missing assignments, accommodations, etc.) should be sent through the course messaging system or to my email address, anita.marshall@ufl.edu.

COURSE MATERIAL:

You will need 3 things for this course: the (1.) Textbook, the (2.) access code for the online Mastering Geology material with included e-text of lab manual, and (3.) Rock and Mineral identification kit. These two items can be purchased as a bundle (physical textbook, e-text lab book wit access code) from the bookstore. Alternatively, e-text versions of the textbook and lab manual along with access code can be through the Canvas course page (details provided in the "start here" section). The access code is unique to this course, so if you don't get in in a bundle, you must purchase it through the Canvas course page. The rock and mineral kit can only be purchased through the UF bookstore. *Please order your rock and mineral kit ASAP so it can be shipped to before we get to Lab #3!* For those that are local to Gainesville, five kits are on reserve in the library and some are available for short-term checkout from my office.

WHAT YOU NEED:

Text: Environmental Geology, Keller 9th ed.

Access Code: Pearson Mastering Geology, which includes e-text of AGI Lab Manual in Physical Geology 11th ed.*

Rock/Mineral kit: U of FL Rock and Mineral Kit WARD470122-540

*Text & Lab Material available as a bundle, ISBN 9780134675732

KEY DATES

Midterm: Oct 8-9th

Projects Due: Nov 19th

Final: Dec 10-11th

TECHNOLOGY REQUIREMENTS

Computer & Internet: Access to and on-going use of a computer is required for all students. Competency in the basic use of a computer is required. Course work will require use of a computer and a broadband connection to the Internet. In addition, students are required to have speakers and a webcam to take the proctored exams. For additional information on UF College of Liberal Arts and Sciences policy regarding computer requirements you can visit: <http://it.clas.ufl.edu/policies/student-computer-requirement/>

Proctor-U: Your exams in this course will be proctored using ProctorU. You will need a webcam and some type of speakers and microphone. Review the ProctorU Student Guide in the “Start Here” section of the course website for detailed information. Here are the key points:

- You must register with ProctorU. If you already have an account from another course, there is no need to register again.
- You will sign up for your two test times during the first week of class. Go to the Start Here section of the course site for details. If you are in need of a specific time, sign up early.
- Once you sign up for a time, you should receive a confirmation e-mail. If you do not receive the confirmation e-mail, you should contact ProctorU immediately.
- If you make a last-minute schedule change with ProctorU, you will incur an additional fee.
- You will be required to show picture identification to your proctor at the time of your exam. Approved forms of identification include, but are not limited to, a driver's license, military identification card, passport, or school-issued identification card.
- Cell phones and other devices will not be permitted in the testing area. No other people are allowed in the area in which the test is being taken.
- Any unauthorized notes or other attempts to cheat will abort the test session and will be reported to your instructor
- No breaks are allowed during your testing session. If you have disability-related concerns about that, please contact me ASAP.

ACCESSIBILITY, INCLUSION & RESPECT

UF Statement on Accommodating Students with Disabilities: Students requesting accommodation Students with disabilities requesting accommodations should first register with the Disability Resource Center by calling 352-392-8565 or by computer at: www.dso.ufl.edu/drc/ and provide appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester, as *accommodations are not retroactive*.

My Statement on Accessibility: We all learn differently. You don't have to have a formally recognized disability to find yourself having difficulty with some aspect of the college learning environment. For example, colorblindness is not typically recognized in formal accommodations, but very much impacts a student's ability to process visual information. Please let me know if something in the course material presents a barrier to your full participation in the class so we can work together to find a reasonable solution – *even if you don't have a formal accommodation letter*.

Religious Observances: Students who anticipate the necessity of missing homework deadlines and discussions due to religious observances *must provide notice of the date(s) to the instructor*, in writing at least two weeks

in advance of the missed class days so accommodations to be made for missed work. Do not wait until after you have missed assignments to ask for an exception, as these requests may not be honored!

Respect & Inclusion: In this classroom (physical or virtual), everyone should feel welcome to share their thoughts in a respectful way. Treat you classmates the way you would like to be treated. You deserve to be called by the name you prefer and have me pronounce it correctly. Please don't let me keep saying your name (or pronouns) incorrectly! If something in the course material, instruction or class interactions make you feel excluded or uncomfortable, please let me know so I can address it. Please see the Netiquette section under "UF Policies" for more details on how to interact respectfully online.

COURSE DETAILS

Prerequisite Knowledge: This is a GenEd physical science (P) course. This course does not have prerequisites, but a basic knowledge of mathematics (middle school math, occasional basic algebra) and the skills to use the computer and internet is required.

Course Summary & Goals: The focus of this course is investigating human interactions with the natural world – how the environment impacts us, and how we impact our environment. To accomplish this, we will establish foundational knowledge about geology and the scientific process. We will then apply that knowledge to understand the processes that shape the Earth's surface and natural systems. From this context we can also examine the complex relationship between humans and their environment. The goals of this course include:

- Learning about the materials, processes and events that comprise and shape the Earth in order to better understand the environment in which you live.
- Investigating how the intersection of human activity and geology relates to and impacts modern engineering and environmental issues such as resource utilization, environmental impacts of human activity and Natural hazards.
- Understanding the process of scientific inquiry as a means to refine critical thinking skills.
- Improving scientific literacy - the concepts and terminology needed to understand science stories in the news, or make informed decisions on science-based issues.
- Building scientific communication skills – the skills and mindset to articulate technical concepts to the general public. This will be done through discussions and the course project.

Course Responsibilities: This is a full semester course comprised of 12 modules. Assignments are listed in the course schedule by week and specific due dates can be found in the Calendar and Syllabus page in Canvas. You will need to have regular internet access and the time to explore the resources available on each topic. Over the course of the semester, you will have the following responsibilities:

- Complete all Module assignments in a timely fashion.

Each module includes reading assignments, video lectures with accompanying PowerPoint presentations (available as .pdf files), a module quiz, and some combination of assignments and discussions (either or both). The one exception is Module 7, which in consideration that it occurs around the time of the course midterm Exam, has no assignments or discussions (only videos and readings).

Requirements for class participation, make-up exams and other work is consistent with university policies: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

- Actively participate in class discussions as specified in each module.
- Complete online multiple-choice quizzes for each module (except module 7).

- Complete the course project, which transpires during modules 8-12.
- Check the course announcements and class e-mail at least three times a week. It is the only way I have to communicate with you in an online class, so it is very important.

Course Schedule: This course is broken up into 12 topical modules. Each module will be comprised of some combination of reading assignments, lab assignments, quizzes and discussions. Students should reference the course calendar for due dates of individual course assignments, discussions and assessments. Module Titles and start/end dates are detailed below.

Mod.	Subject/Title	Dates of Module
1	Introduction to the course, Philosophy and Overarching Concepts of Environmental Geology	8/20-8/27
2	Earth Structure and Plate Tectonics	8/27-9/3
3	Earth Materials and Processes 1: Rock Cycle, Minerals, and Mineral ID.	9/3-9/10
4	Earth Materials and Processes 2: Classification and Identification Rocks	9/10-9/17
5	Rock Structures, Surface Processing, and Using Maps	9/17-9/24
6	Rock Weathering, Soils, and the Environment	9/24-10/1
7	Introduction to Ecology and Geology	10/1-10/8
Proctor-U Midterm Exam (10/8-10/10), work on Projects		10/8-10/15
8	Natural Hazards, Volcano and Earthquake Hazards	10/15-10/22
9	Slope Stability and Mass Movements of Earth	10/22-10/29
10	River Processes, Flooding, and Human Influence	10/29-11/5
11	Coastal Geology and Hazards	11/5-11/12
12	Groundwater Processes and Water Resources	11/12-11/19
13	Wrap up discussion and assignment	11/19-11/26
Proctor-U Final Exam 12/10-12/11		

COURSE ACTIVITY CATEGORIES

Assignments: Each Module (with the exception of Module 7) has associated Lab assignments. All module assignments are due no later than 11:55 on the last day of the module. Assignment activities types vary, and are worth 50 to 100 points each. Assignments account for 30% of your overall grade.

Module Quiz: There are 11 quizzes for the course. Each quiz is worth 100 points each, comprised of 15 multiple choice questions, and not proctored. The lowest quiz grade will be dropped at the end of the semester, even if it is a zero. This leave 10 quizzes that count towards your grade. The quizzes need to be completed by 11:55 PM on the last day of each module. Quizzes are worth 10% of your grade.

Discussions: Online discussion will be used for further exploration of the topics we study each week.

We'll go beyond what the text has to say, and collaborate to brainstorm new perspectives on the subject and how it relates to our lives. As such, students will be assessed by their participation in the Discussion Forum. For each module that contains a Discussion Forum, students will be expected to post a thoughtful, detailed response (i.e., "yes," "no," "I agree," or "I disagree" answer is not sufficient) according to the Substantive Post Guidelines and Discussion rubric that has been provided. Deadlines for discussion posts are listed on the course calendar. Typically the initial post will be due around the middle of the module (3-4 days before the module end) with a follow-up response being due two days later. Discussion participation is worth 10% of your grade.

Project: During the second half of the course you will work both individually and in a group to investigate a specific geohazard in more depth. In this project you will work first individually to create a single webpage (in Canvas) on a topic within your assigned hazard category. After completing your presentation you will peer review the works of other students in your hazard type, and they will review yours. Next, you will have the opportunity to improve/revise you presentation based on the feedback from your peers. In the last stage of the project, your hazard group will combine everyone's information into a single website. This project is described in much greater detail on the course Canvas page that supports it. The project is worth 20% of your grade, so it is worthwhile to put some effort into it.

Proctored Exams: Two proctored exams (Using Proctor U) comprised of 50 multiple choice questions – the Midterm and Final. Students are responsible for scheduling the exam time during the 2-day time window available for each exam. Details on how to register are included in the Start Here section of the course site. Each exam is worth 20% of your total grade in the course.

GRADING

See <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx> for general UF grading policies.

Grades will be based on points accumulated through course activities:

Assignments	30% of total grade
Module Quizzes	10% of total grade
Weekly Discussions	10% of total grade
Project	20% of total grade

Proctor U Midterm 15% of total grade

Proctor U Final 15% of total grade

Grading Scale for Overall Course Grade:

Course Points Earned	% Grade	Letter Grade	GPA Value
5400	90 +	A	4.0
5100	85-90	B+	3.5
4800	80-84.9	B	3.0
4500	75-79.9	C+	2.5
4200	70-74.9	C	2.0
3900	65-69.9	D+	1.5
3540	59-65.9	D	1
3480	< 58.9	E	0

Late work: Work submitted after the stated deadline will be penalized. A 5% grade penalty is assessed for work up to twenty-four hours late; an additional 5% is assessed for each additional day the work is late, up to one week. This policy will be used for assignments only; it does not apply to discussions, quizzes, or exams.

STUDENT FEEDBACK AND COURSE EVALUATION

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

UF POLICIES

University Policy on Academic Misconduct: Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at: <http://www.dso.ufl.edu/students.php>.

Netiquette – Communication Courtesy: All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. More information at: <http://teach.ufl.edu/docs/NetiquetteGuideforOnlineCourses.pdf>

UF Online Handbook: Available at: <http://handbook.ufonline.ufl.edu/>

NEED HELP?

Technical Support: For issues with technical difficulties for E-learning, please contact the UF Help Desk: <http://helpdesk.ufl.edu>, or (352) 392-4357 and select option 2. If you miss a deadline due to technical issues, requests for extensions or make-up activities MUST be accompanied by the ticket number received from The Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Help from me: While I have a short window of time listed for office hours, I will be in my office most weekdays and you can always set up an appointment to make sure I am in. Office hours are for your benefit - ask questions, get assignment help, discuss geoscience degrees and career options, etc. If you are on campus, stop by and say hello! If you are off campus, feel free to send me an email, or we can set up a video chat. I also have a small no-questions-asked food pantry for students just inside my door.

Other Resources: For support regarding Counseling and Wellness, disability, documenting student concerns and complaints, and a link to the Library Help Desk, please see: <http://www.distance.ufl.edu/getting-help>.