Course Syllabus

ESC1000 Introduction to Earth Science (Online) Sections 0468, 19A5, 085H, 1111

General education course in Natural Sciences fulfilling Physical Sciences General Education area.

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TAs: TBA

Textbook: *Earth Science by Marshak & Rauber* All students are required to purchase access to the eText (and associated online system) in order to complete some of the graded activities, termed Smartwork5 in this system. These activities are discussed in detail below. This course is part of the UF All Access program, which means that you need to opt-in and the cost of the materials will be charged to your UF student account. Required course materials include the e-book and Smartwork5 for a cost of approximately $70. To opt-in use the following link.

https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED (https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED)

You all have access to the textbook right now, but you will need to opt-in by Friday September 2nd - after that your access to the ebook and Smartwork will be terminated!! Extensions on assignments because of failure to opt-in will not be granted.

You can access the eBook through the Modules link. Note that you can store parts of the eText in cache. This is useful if you are going to be away from internet, but you want to read while away. To do this, open the eText and click on a Chapter/Section, click on the three bars at top left. Toward the bottom in the left column click the "offline reading" option in black and check the sections you want to store.

Course goals Earth is dynamic planet that is continually being reshaped by forces generated within the solid earth and earth's interior, as well as by processes operating in both the oceans and atmosphere. In this course you will gain a basic understanding of the fundamental processes that occur within each of these domains, as well as the interactions between them.

Course content & objectives

For each module listed below you will find the following in the *Modules* link on Canvas:

(1) an overview that provides the goals, graded activities, reading and lecture resources, and a list of objectives (what you need to know) for each module and exam. Note that the vast majority of the objectives are material covered in the lectures (rather than the book or SW activities). The lectures cover much of the material in the SW activities, but often in more detail. The Modules covered for each exam is shown below.

(2) a list of recorded lectures delivering the content for each module (these are links from the Pages tab in Canvas so you can see them all there). Exams are largely based on lectures.

Modules

Module 0 : Introductory concepts

Module 1 : Movements with the Earth (and resulting features)

Plate tectonics and earthquakes

Exam i - late September or early October

Module 2 : Earth materials

Minerals, rocks, resources, etc

Exam ii - early November

Module 3 : The hydrosphere

Groundwater, oceans, etc.

Module 4 : The atmosphere

Module 5 : Other parts of the solar system

Geology of the Moon

Exam iii - last day of classes (December 7th)

****Note: is no cumulative final exam during exam week***

Communications Please contact instructors and TAs through regular email (NOT Canvas message/email please) as it is much easier to keep

track of our conversations. Emails are shown at the top of the syllabus. Throughout the semester, I will provide information to you through Canvas announcements. Be sure that you check announcements regularly and set up Canvas to have announcements delivered to you as emails as well.

Delivery of content Content for the course will be delivered asynchronously through (1) reading, self-guided activities associated with reading. , and (2) recorded lectures that are available on the Pages link in Canvas.

Graded Activities (Goals and logistics of each of the activities are discussed below)

Reading activities - completed through Smartwork ***20% of total grade*** *(Lowest grade dropped)*

Quizzes - completed through Smartwork ***20% of total grade*** *(Lowest grade dropped)*

Assignments (4-6 total) - available through, and submitted in Canvas ***15% of total grade***

Exams (3) - ***45% total grade*** Multiple-choice type exams through Honorlock proctoring system (all exams are non-cumulative)

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Total = 100%

There will be an extra credit opportunity toward the end of the semester. This will provide you with a chance to make up points lost by missing an activity or to simply get extra credit.

**Note: if you missed assignments then your overall grade showing in Canvas may not reflect your actual grade.

Policies for late and missed work The following is a list of penalties for late submissions. Exceptions to these policies will only be provided with fully documented excuses.

Reading activities & Quizzes: 30% score reduction for each day late (no submissions accepted after 48 hours)

Assignments: 50% score reduction for each day late (no submissions accepted after 24 hours)

Any technology issues encountered during online activities must be documented with screenshots of error messages, etc.*

For technical assistance within Canvas visit the UF Helpdesk or **https://helpdesk.ufl.edu** **(https://helpdesk.ufl.edu)** or call 352-392-4357). For assistance and technical issues associated with Smartwork, use the help link within the Norton Smartwork site.

Descriptions of the different types of graded activities

Reading activities (Smartwork) The Chapters covered for each of these activities is in the name of the assignment and, if only specific sections are covered it is shown in the description within Smartwork. You should read the appropriate sections in the textbook before beginning these activities. In these activities you will answer basic questions on the material from your reading. These are commonly in the form of labeling, sorting, multiple choice, etc. and some are associated with short video clip explanations. Other than having a due date/time, these activities are not timed. You have three to four attempts to answer the questions correctly, thus it is expected that you will receive 90-100% for each of these as long as you complete them on time. It is expected that you complete these activities before taking the quizzes. Note that you can open and close the L/R activities as many times as you like before the due date and your work will be saved. Once you open the L/R activity, a grade for the activity will appear in Canvas - this grade will continue to increase as you complete more of the activity.

Quizzes (Smartwork) Quizzes consist of ~15-25 multiple choice questions that cover the material from the book and on the Learning/Reading activities. The quizzes are timed and you will have around one minute per question. Thus, there is time to look up a couple of questions, but not enough to expect to look up most of the material. You should complete the reading and Learning/Reading activities before starting the quizzes. There is one of these activities due every Monday at the same time as the Learning/Reading activity. **Be sure that you have a secure internet connection before beginning the quizzes** *Once you begin a quiz, you cannot stop the clock from running (even if you hit the "save and exit" button), so be sure that you have the time to complete the quiz before beginning it.*

Assignments - In contrast to the the quizzes and learning/reading activities, which emphasis basic recall and understanding, the assignments will require you to apply the concepts, analyze data, perform calculations, and/or explain concepts with the aid of sketches. Thus, these require more advanced thinking than the Smartwork material. Therefore, the points from the assignments are not as easily earned as in those activities. Not every chapter/module has an assignment - there will be five assignments scattered throughout the semester. Some of the assignments will have multiple parts, including a Guided Learning Activity (GLA). For the GLAs, full points will be earned if completed, but no points are awarded unless completed in full. Your answers for the other parts of the Assignments will be entered via Canvas quizzes that will be made available several days before the assignment is due. The assignments will be available through the *Assignments* link here on Canvas and related materials will also be dispersed through that link and/or attached to Canvas announcements. Details for the Assignments will be provided in the next couple of weeks.

Exams - These will be multiple choice exams using HonorLock proctoring system. Exam content will focus on a specific subset of material to be

specified in the clear lists of objectives for each of the exams (i.e., a list of things you need to know). These are available in the overview pdf documents for each module. Thus, it will be helpful to be looking through the objectives while watching the video lectures. The exams will be proctored through Honorlock and you will be given a time window during which you can take it anytime within that window (typically 8 am to 11 pm). You will be allowed to bring notes on a single side of an 8.5" x 11" piece of paper - the notes may be typed or hand-written. Any additional information will be given through Canvas announcements.

Letter-grade assignment:

A	90 - 100%
A-	88 - 90
B+	85 - 88
B	80 - 85
B-	78-80
C+	75 - 78
C	70 - 75
C-	68 -70
D+	65 - 68
D	60 - 65

NOTE: If you fall on a boundary (e.g., 80%), you will receive the higher grade (e.g., 80% = B)

Because the minimum number for each grade range is lower than normal, there is no rounding at the end.

Course Evaluations

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/ (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/ (https://urldefense.proofpoint.com/v2/url?u=https-3A__ufl.bluera.com_ufl_&d=DwMFAg&c=sJ6xIWYx-zLMB3EPkvcnVg&r=y2HjEMjRMHJhfdvLrqJZlYczRsfp5e4TfQjHuc5rVHg&m=WXko6OK_Ha6T00ZVAsEaSh99qRXHOgMNFRywCoehRho&s=itVU46DDJjnlg4CW6efJOOLgPjdzsPvCghyfzJoFONs&e=)**. Summaries of course evaluation results are available to students at **https://gatorevals.aa.ufl.edu/public-results/ (https://gatorevals.aa.ufl.edu/public-results/)**

Course Summary:

Date	Details	Due
Fri Feb 4, 2022	**Assignment 2 - Part B [Enter Final Answers Here] (https://ufl.instructure.com/courses/460509/assignments/5313757)**	due by 11:59pm
Wed Aug 31, 2022	**Syllabus Quiz 2022 Spring (https://ufl.instructure.com/courses/460509/assignments/5313763)**	due by 11:58pm
	(1) Quiz - Prelude & Chapter 1 (https://ufl.instructure.com/courses/460509/assignments/5313770)	due by 11:59pm
	(1) Reading activity - Prelude & Chapter 1 (https://ufl.instructure.com/courses/460509/assignments/5313771)	due by 11:59pm
Fri Sep 9, 2022	**(2) Quiz - Chapter 2 Plate Tectonics (https://ufl.instructure.com/courses/460509**	due by 11:59pm

Date	Details	Due
	/assignments/5313772)	
	(2) Reading Activity - Chapter 2 Plate Tectonics (https://ufl.instructure.com/courses/460509 /assignments/5313773)	due by 11:59pm
Thu Sep 15, 2022	Assignment 1 - Part A - Guided Learning Explorations in Earth Science: Plate Tectonics (https://ufl.instructure.com/courses/460509 /assignments/5313788)	due by 11:59pm
	Assignment 1 - Part B - Plate Tectonics (https://ufl.instructure.com/courses/460509 /assignments/5313789)	due by 11:59pm
	Assignment 1 - Part B [Enter Final Answers Here] (https://ufl.instructure.com/courses/460509 /assignments/5313760)	due by 11:59pm
Fri Sep 16, 2022	Assignment 2 - Part A - Guided Learning Explorations in Earth Science: Earthquakes (https://ufl.instructure.com/courses/460509 /assignments/5313790)	due by 11:59pm
	Assignment 2 - Part B - Isostasy & Earthquakes (https://ufl.instructure.com/courses /460509/assignments/5313791)	due by 11:59pm
Mon Sep 19, 2022	(3) Learning/Reading Activity - Chapter 8: Earthquakes (https://ufl.instructure.com/courses /460509/assignments/5313774)	due by 11:59pm
	(3) Quiz - Ch. 8 - Earthquakes (https://ufl.instructure.com/courses/460509 /assignments/5313775)	due by 11:59pm
Thu Sep 22, 2022	(4) Quiz - Chapter 3: Minerals and Chapter 4: Volcanism & Igneous Rocks (https://ufl.instructure.com/courses/460509 /assignments/5313776)	due by 11:59pm
	(4) Reading Activity - Chapter 3: Minerals and Chapter 4: Volcanism & Igneous Rocks (https://ufl.instructure.com/courses/460509 /assignments/5313777)	due by 11:59pm
Mon Sep 26, 2022	Exam i 2022 Spring (https://ufl.instructure.com /courses/460509/assignments/5313758)	due by 11:59pm
Fri Sep 30, 2022	(5) Reading Activities - Chapter 5: Sedimentary Rocks (https://ufl.instructure.com /courses/460509/assignments/5313779)	due by 11:59pm
	(5) Quiz - Chapter 5 Sedimentary Rocks (https://ufl.instructure.com/courses/460509 /assignments/5313778)	due by 11:59pm
Fri Oct 7, 2022	(6) Quiz - Chapter 9: Geologic Time and Dating (https://ufl.instructure.com/courses/460509 /assignments/5313780)	due by 11:59pm
	(6) Reading Activity - Chapter 9: Geologic Time and Dating (https://ufl.instructure.com/courses	due by 11:59pm

Date	Details	Due
	/460509/assignments/5313781)	
Tue Oct 11, 2022	Assignment 3 - Part A : Guided Learning Explorations in Earth Science: Relative and Numerical Dating (https://ufl.instructure.com/courses/460509/assignments/5313792)	due by 11:59pm
	Assignment 3 - Part B - Dating Geologic Materials and the Rock Record of Transgressions/Regressions (https://ufl.instructure.com/courses/460509/assignments/5313793)	due by 11:59pm
	Assignment 3- Part B (Enter answers here) (https://ufl.instructure.com/courses/460509/assignments/5313762)	due by 11:59pm
Fri Oct 14, 2022	(7) Quiz - Chapter 11: Energy & Mineral Resources (https://ufl.instructure.com/courses/460509/assignments/5313782)	due by 11:59pm
	(7) Reading activity - Chapter 11: Energy & Mineral Resources (https://ufl.instructure.com/courses/460509/assignments/5313783)	due by 11:59pm
Fri Oct 28, 2022	Exam ii (https://ufl.instructure.com/courses/460509/assignments/5313756)	due by 11:59pm
Mon Oct 31, 2022	(8) Quiz - Chapters 12 & 13: Groundwater (https://ufl.instructure.com/courses/460509/assignments/5313784)	due by 11:59pm
	(8) Reading Activity - Chapters 12 & 13: Groundwater (https://ufl.instructure.com/courses/460509/assignments/5313785)	due by 11:59pm
Mon Nov 7, 2022	(9) Quiz - Chapter 15: Oceans I (https://ufl.instructure.com/courses/460509/assignments/5313786)	due by 11:59pm
	(9) Reading Activity - Chapter 15: Oceans I (https://ufl.instructure.com/courses/460509/assignments/5313787)	due by 11:59pm
Tue Nov 8, 2022	Assignment 4 - Part A - Guided Learning Explorations in Earth Science: Groundwater (https://ufl.instructure.com/courses/460509/assignments/5313794)	due by 11:59pm
	Assignment 4 - Part B - Geology of Florida & Groundwater (https://ufl.instructure.com/courses/460509/assignments/5313795)	due by 11:59pm
	Assignment 4 : Part B - Geology of Florida (Enter Answers Here) (https://ufl.instructure.com/courses/460509/assignments/5313759)	due by 11:59pm
Fri Nov 11, 2022	(10) Quiz - Chapter 16: Oceans II (https://ufl.instructure.com/courses/460509/assignments/5313764)	due by 11:59pm
	(10) Reading Activity - Chapter 16: Oceans II (https://ufl.instructure.com/courses/460509	due by 11:59pm

Date	Details	Due
	/assignments/5313765)	
Mon Nov 21, 2022	(11) Quiz - Chapter 17: Atmosphere (https://ufl.instructure.com/courses/460509/assignments/5313766)	due by 11:59pm
	(11) Reading Activity - Chapter 17: Atmosphere (https://ufl.instructure.com/courses/460509/assignments/5313767)	due by 11:59pm
Wed Nov 23, 2022	Assignment 5A - Guided Learning Explorations in Earth Science: Oceans (https://ufl.instructure.com/courses/460509/assignments/5313796)	due by 11:59pm
	Assignment 5B - Guided Learning Explorations in Earth Science: Coastal Processes and Hurricanes (https://ufl.instructure.com/courses/460509/assignments/5313797)	due by 11:59pm
	Assignment 5C - Guided Learning Explorations in Earth Science: Climate Change (https://ufl.instructure.com/courses/460509/assignments/5313798)	due by 11:59pm
	Assignment 5D - Guided Learning Explorations in Earth Science: Earth's Atmosphere (https://ufl.instructure.com/courses/460509/assignments/5313799)	due by 11:59pm
	Assignment 5E - Guided Learning Explorations in Earth Science: Planetary Geology (https://ufl.instructure.com/courses/460509/assignments/5313800)	due by 11:59pm
Mon Nov 28, 2022	(12) Quiz - Chapter 20: Climate & Climate Change (https://ufl.instructure.com/courses/460509/assignments/5313768)	due by 11:59pm
	(12) Reading activity - Chapter 20: Climate & Climate Change (https://ufl.instructure.com/courses/460509/assignments/5313769)	due by 11:59pm
Wed Nov 30, 2022	Exam iii (https://ufl.instructure.com/courses/460509/assignments/5313761)	due by 11:59pm
Sun Dec 4, 2022	Extra Credit - Quiz Chapter 19 (https://ufl.instructure.com/courses/460509/assignments/5313801)	due by 11:59pm
	Extra Credit - Reading Activity Chapter 19 (https://ufl.instructure.com/courses/460509/assignments/5313802)	due by 11:59pm
	Guided Learning Explorations in Earth Science: Erosion and Weathering (https://ufl.instructure.com/courses/460509/assignments/5313803)	

Date	Details	Due
	Guided Learning Explorations in Earth Science: Glacial Processes and Features (https://ufl.instructure.com/courses/460509/assignments/5313804)	
	Guided Learning Explorations in Earth Science: Landslides and Mass Movements (https://ufl.instructure.com/courses/460509/assignments/5313805)	
	Guided Learning Explorations in Earth Science: Metamorphism (https://ufl.instructure.com/courses/460509/assignments/5313807)	
	Guided Learning Explorations in Earth Science: Minerals (https://ufl.instructure.com/courses/460509/assignments/5313808)	
	Guided Learning Explorations in Earth Science: River Processes and Flooding (https://ufl.instructure.com/courses/460509/assignments/5313809)	
	Guided Learning Explorations in Earth Science: Stellar Evolution (https://ufl.instructure.com/courses/460509/assignments/5313810)	
	Guided Learning Explorations in Earth Science: Structures in Geology (https://ufl.instructure.com/courses/460509/assignments/5313811)	
	Guided Learning Explorations in Earth Science: Tornadoes and Thunderstorms (https://ufl.instructure.com/courses/460509/assignments/5313812)	
	Guided Learning Explorations in Earth Science: Volcanic Hazards (https://ufl.instructure.com/courses/460509/assignments/5313813)	
	Guided Learning Explorations in Earth Science: Winds, Fronts, and Cyclones (https://ufl.instructure.com/courses/460509/assignments/5313814)	