

Course Syllabus

ESC1000 Introduction to Earth Science (Online)

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Please read the Canvas announcements I send. You should have them automatically sent to your email.

Textbook: *Earth Science by Marshak & Rauber* All students are required to purchase access to the 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 ~\$64. 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 September 6th - after that your access to the ebook and Smartwork will be terminated!!

[Click here to access the eBook](#) (also accessible 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 Earth's interior and by processes operating in both the oceans and atmosphere. In this course we will explore the fundamental processes that occur within each of these domains as well as the interactions between them.

Communications Please contact me through regular email (NOT Canvas email please) as it is much easier to keep track of our conversations. Please indicate in your email that you are in the online class. 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. You should also take advantage of the Discussions link here on Canvas. This provides a simple way of communicating with other students in the class. It is particularly useful when looking for information, or providing information to your fellow students that may not be an explicit part of instructions/syllabus (e.g., issues regarding technology, programs/browsers that you find useful, your experiences in best practices, discussions on course content, etc.).

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

Learning/Reading activities (one due every Monday) - completed through Smartwork **25% of total grade**
(Lowest grade dropped)

Quizzes (one due every Monday) - completed through Smartwork **25% of total grade** (*Lowest grade dropped*)

Assignments (5 or 6 total) - available through, and submitted in Canvas **20% total**

Exams (3) - available through, and submitted in Canvas **30% total**

Total = 100%

There will be an extra credit opportunity worth up to 2% points on your final grade 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.

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

Assignments: 30% score reduction for each day late (no submissions accepted after 48 hours)

Exams: 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.*****

Descriptions of the different types of graded activities

Learning/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 attempts to answer the questions correctly, thus it is expected that you will receive close to 20/20 points for each of these as long as you complete them on time. *i.e., these are easy points (there is no reason to not get near 100%) if you do the basic reading and complete them on time and they are worth ~25% of your grade so do not miss out on this opportunity!* There is one of these activities due every Monday. 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, and in some cases perform calculations. 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 six assignments scattered throughout the semester. 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. Ultimately, answers will be submitted through the *Quizzes* link on Canvas. Details will be provided once the first assignment is distributed.

Exams - There will be three exams during the semester. The exams will consist of one or two conceptual questions that require concise explanations that are tied to sketches created by you. The exams will be open book/notes. While the Assignments build on the basic Smartwork activities, the exams assess comprehension of material at a higher levels through summarizing, illustrating, describing, and explaining. Thus, it is expected that points are not as easily earned as with Smartwork and Assignments. However, the exams make up a much smaller proportion of your grade than the Smartwork.

The exams will be distributed a minimum of 7 days prior to the due date through the *Assignments* link on Canvas and will be submitted as a single file PDF within Canvas. These will require scanning of your exam and creation of PDF (you can hand-draw and write the exam or use a computer drawing program). If you do not know how to create a PDF from JPGs, including combining multiple pages into a single document, then you should learn to do that no - before the due date. There are many free or pay PDF converters and combiners available - this can be done using Preview, which comes on Macs. *Exam PDFs must be submitted with writing and sketches upright (not upside-down or sideways). Incorrectly oriented submissions will not be graded. It is your responsibility to be sure your exam was successfully submitted and properly oriented.*

Lecture Videos - Below are links to videos that may be helpful

Formation of the Solar System and early Earth (<https://mediasite.video.ufl.edu/Mediasite/Play/fcdd28af7b034a4b8431200219861ebc1d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47>) (Chapter 1)

Plate Tectonics i : Overview (<https://mediasite.video.ufl.edu/Mediasite/Play/1a7cf55728f2415eb3e3629c6fcfe3461d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47>)

Plate Tectonics ii : Divergent Boundaries, mid-ocean ridges, age of the seafloor
(<https://mediasite.video.ufl.edu/Mediasite/Play/b91ecb3e63e946c2971289ca6bd3f2931d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47>)

Plate Tectonics iii : Accretion, Mountain Building, and Florida [_ \(https://mediasite.video.ufl.edu/Mediasite/Play/53e4893d3d9c4013842374e09fa49ca71d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47\)](https://mediasite.video.ufl.edu/Mediasite/Play/53e4893d3d9c4013842374e09fa49ca71d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47)

Plate Tectonics iv : Transform Boundaries [_ \(https://mediasite.video.ufl.edu/Mediasite/Play/75fb27ce0cdd4e38b905a99f11f642941d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47\)](https://mediasite.video.ufl.edu/Mediasite/Play/75fb27ce0cdd4e38b905a99f11f642941d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47)

Plate Tectonics v : Paleomagnetism, magnetic anomalies, magnetic inclination
[_ \(https://mediasite.video.ufl.edu/Mediasite/Play/8584e761c61e421d873e062090516c811d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47\)](https://mediasite.video.ufl.edu/Mediasite/Play/8584e761c61e421d873e062090516c811d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47)

Plate Tectonics vi : Isostasy [_ \(https://mediasite.video.ufl.edu/Mediasite/Play/9f8dd40a178b4e52b3295d1df82847281d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47\)](https://mediasite.video.ufl.edu/Mediasite/Play/9f8dd40a178b4e52b3295d1df82847281d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47)

Earthquakes i : Demonstration of Elastic Rebound Theory [_ \(https://mediasite.video.ufl.edu/Mediasite/Play/ab5ff490d3774341a1a67bdcba3ad7e1d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47\)](https://mediasite.video.ufl.edu/Mediasite/Play/ab5ff490d3774341a1a67bdcba3ad7e1d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47)

Earthquakes ii : Earthquake Patterns at Subduction Zones [_ \(https://mediasite.video.ufl.edu/Mediasite/Play/e1b0c0a5b78a4fe182d0b4a7c232900d1d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47\)](https://mediasite.video.ufl.edu/Mediasite/Play/e1b0c0a5b78a4fe182d0b4a7c232900d1d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47)

Volcanic eruptions: What controls the explosiveness of volcanic eruptions?
[_ \(https://mediasite.video.ufl.edu/Mediasite/Play/df5b357309fb4de6884117be8afaea181d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47\)](https://mediasite.video.ufl.edu/Mediasite/Play/df5b357309fb4de6884117be8afaea181d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47)

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

Course Summary:

Date	Details
Mon Sep 2, 2019	 Smartwork5: (1) Learning/Reading activity - Prelude & Chapter 1 (https://ufl.instructure.com/courses/378881/assignments/3975787)
	 Smartwork5: (1) Quiz - Prelude & Chapter 1 (https://ufl.instructure.com/courses/378881/assignments/3975788)
Mon Sep 9, 2019	 Smartwork5: (2) Learning/Reading Activity - Chapter 2 Plate Tectonics (https://ufl.instructure.com/courses/378881/assignments/3975789)
	 Smartwork5: (2) Quiz - Chapter 2 Plate Tectonics (https://ufl.instructure.com/courses/378881/assignments/3975790)
Wed Sep 11, 2019	 Assignment 1 : Plate Tectonics i (https://ufl.instructure.com/courses/378881/assignments/3983833)
Mon Sep 16, 2019	 Smartwork5: (3) Learning/Reading activity Chapter 7 Mountain Building and Geologic Structures (https://ufl.instructure.com/courses/378881/assignments/3975791)
	 Smartwork5: (3) Quiz 3 Chapter 7 - Mountain Building and Geologic Structures (https://ufl.instructure.com/courses/378881/assignments/3975792)
Fri Sep 20, 2019	 Assignment 2: Plate Tectonics ii (https://ufl.instructure.com/courses/378881/assignments/3984081)
Mon Sep 23, 2019	 Smartwork5: (4) Learning/Reading Activity - Chapter 8: Earthquakes (https://ufl.instructure.com/courses/378881)

Date	Details	
	/assignments/3975793)	
	 Smartwork5: (4) Quiz - Ch. 8 - Earthquakes (https://ufl.instructure.com/courses/378881/assignments/3975794)	due by 11:59pm
Fri Sep 27, 2019	 Assignment 3: Earthquakes (https://ufl.instructure.com/courses/378881/assignments/3984084)	due by 11:59pm
Mon Sep 30, 2019	 Smartwork5: (5) Learning/Reading Activity - Chapter 3: Minerals (https://ufl.instructure.com/courses/378881/assignments/3975795)	due by 11:59pm
	 Smartwork5: (5) Quiz - Chapter 3: Minerals (https://ufl.instructure.com/courses/378881/assignments/3975796)	due by 11:59pm
Mon Oct 7, 2019	 Smartwork5: (6) Learning/Reading Activity - Chapter 4: Volcanism & Igneous Rocks (https://ufl.instructure.com/courses/378881/assignments/3975797)	due by 11:59pm
	 Smartwork5: (6) Quiz - Chapter 4: Volcanism & Igneous Rocks (https://ufl.instructure.com/courses/378881/assignments/3975798)	due by 11:59pm
Wed Oct 9, 2019	 Exam I (https://ufl.instructure.com/courses/378881/assignments/3984086)	due by 11:59pm
Mon Oct 14, 2019	 Smartwork5: (7) Learning/Reading Activities - Chapter 5: Sedimentary Rocks (https://ufl.instructure.com/courses/378881/assignments/3975799)	due by 11:59pm
	 Smartwork5: (7) Quiz - Chapter 5 Sedimentary Rocks (https://ufl.instructure.com/courses/378881/assignments/3975800)	due by 11:59pm
Mon Oct 21, 2019	 Smartwork5: (8) Learning/Reading - Chapter 9: Geologic Time and Dating (https://ufl.instructure.com/courses/378881/assignments/3975801)	due by 11:59pm
	 Smartwork5: (8) Quiz - Chapter 9: Geologic Time and Dating (https://ufl.instructure.com/courses/378881/assignments/3975802)	due by 11:59pm
Fri Oct 25, 2019	 Assignment 4: Dating Geologic Events (https://ufl.instructure.com/courses/378881/assignments/3984118)	due by 11:59pm
Mon Oct 28, 2019	 Smartwork5: (9) Learning/Reading activity - Chapter 11: Energy & Mineral Resources (https://ufl.instructure.com/courses/378881/assignments/3975803)	due by 11:59pm
	 Smartwork5: (9) Quiz - Chapter 11: Energy & Mineral Resources (https://ufl.instructure.com/courses/378881/assignments/3975804)	due by 11:59pm

Date	Details
Mon Nov 4, 2019	 Smartwork5: (10) Learning/Reading Activity - Chapters 12 & 13: Groundwater (https://ufl.instructure.com/courses/378881/assignments/3975777)
	 Smartwork5: (10) Quiz - Chapters 12 & 13: Groundwater (https://ufl.instructure.com/courses/378881/assignments/3975778)
Fri Nov 8, 2019	 Exam II (https://ufl.instructure.com/courses/378881/assignments/3984096)
Mon Nov 11, 2019	 Smartwork5: (11) Learning/Reading Activity - Chapter 15: Oceans I (https://ufl.instructure.com/courses/378881/assignments/3975779)
	 Smartwork5: (11) Quiz - Chapter 15: Oceans I (https://ufl.instructure.com/courses/378881/assignments/3975780)
Mon Nov 18, 2019	 Smartwork5: (12) Learning/Reading Activity - Chapter 16: Oceans II (https://ufl.instructure.com/courses/378881/assignments/3975781)
	 Smartwork5: (12) Quiz - Chapter 16: Oceans II (https://ufl.instructure.com/courses/378881/assignments/3975782)
Mon Nov 25, 2019	 Smartwork5: (13) LearningReading Activity - Chapter 17: Atmosphere (https://ufl.instructure.com/courses/378881/assignments/3975783)
	 Smartwork5: (13) Quiz - Chapter 17: Atmosphere (https://ufl.instructure.com/courses/378881/assignments/3975784)
Mon Dec 2, 2019	 Smartwork5: (14) Learning/Reading activity - Chapter 20: Climate & Climate Change (https://ufl.instructure.com/courses/378881/assignments/3975785)
	 Smartwork5: (14) Quiz - Chapter 20: Climate & Climate Change (https://ufl.instructure.com/courses/378881/assignments/3975786)
Wed Dec 4, 2019	 Exam III (https://ufl.instructure.com/courses/378881/assignments/3984087)
Sun Dec 8, 2019	 Smartwork5: Extra Credit Quiz - Chapter 22 (https://ufl.instructure.com/courses/378881/assignments/3975805)

