

Course Syllabus

ESC1000 Introduction to Earth Science (Classroom)

Dr. James Vogl jvogl@ufl.edu (mailto:jvogl@ufl.edu) 277 Williamson (352) 392-6987 Office hours: WF time: TBA

TAs: Angel Barbosa Espitia angelbarbosa@ufl.edu (mailto:angelbarbosa@ufl.edu) 368 Williamson Office hours: TBA

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.

[eClick here to access the eBook](#) (also accessible directly 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 The preferred way to contact me (other than at office hours) is through regular email (not Canvas) as it is easier to keep track of our conversations. Please indicate in your email that you are in the classroom (rather than 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 (not more than one per week) - completed through Smartwork **25%** (lowest grade dropped)

Quizzes (not more than one per week) - completed through Smartwork **25%** (lowest grade dropped)

Assignments (6) - available through, and submitted in Canvas **20% Total**

Exams (3-4) - In-class, multiple choice **30% (10% each exam - lowest dropped)**

Total = 100%

There will be an extra credit opportunity worth ~2% points toward the end of the semester. This will provide you with a chance to make up points lost by missing an activity or give extra credit.

***Important: individual dues dates for the activities in Smartwork5 do not show up in the assignments link or at the bottom of the syllabus

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)

*****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!* 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. ****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 Smartwork5 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 up to ~50 multiple choice questions that will be focused on the material discussed in class. A list of objectives (or what you need to know or be able to do) will be distributed at least a week before each exam. Dates for Exams I & II will be announced around 10 days in advance and will depend on the rate at which we go through material. Exam III will be the last day of classes. All exams are non-cumulative. There is no final exam during finals week.

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>)

Plate Tectonics iv : Transform Boundaries (<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>)

Plate Tectonics vi : Isostasy (<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/ab5ff490d3774341a1a67bdcfbfa3ad7e1d?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>)

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

Yellowstone (<https://mediasite.video.ufl.edu/Mediasite/Play/70e48922929b4fba96d9aef941c341d1d?catalog=69c52b27-feb7-4cab-b4c6-51827de07b47>)

Nuclear Energy (<https://mediasite.video.ufl.edu/Mediasite/Play/47b470995a974aefaf6eb3170ea18c901d?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

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=y2HjEMjRMHJhfdvLrqJZIYczRsfp5e4TfQjHuc5rVHg&m=WXko6OK_Ha6T00ZVAsEaSh99qRXHOgMNFrywCoehRho&s=itVU46DDJjnlq4CW6efJOOLgPjdzsPvCghyFzJoFONs&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	
Mon Jan 28, 2019	 Smartwork5: (2) Learning/Reading Activity - Chapter 2 Plate Tectonics (https://ufl.instructure.com/courses/378877/assignments/3975916)	due by 11:59pm

Date	Details	
	 Smartwork5: (2) Quiz - Chapter 2 Plate Tectonics (https://ufl.instructure.com/courses/378877/assignments/3975917)	due by 11:59pm
Thu Feb 7, 2019	 Learning/Reading activity Chapter 7 Mountain Building and Geologic Structures (https://ufl.instructure.com/courses/378877/assignments/3975911)	due by 11:59pm
Tue Feb 19, 2019	 Smartwork5: (3) Learning/Reading Activity - Chapter 7 & 8: Deformation & Earthquakes (https://ufl.instructure.com/courses/378877/assignments/3975918)	due by 11:59pm
	 Smartwork5: (3) Quiz - Ch. 8 - Earthquakes (https://ufl.instructure.com/courses/378877/assignments/3975919)	due by 11:59pm
Mon Feb 25, 2019	 Smartwork5: (4) Learning/Reading Activity - Chapter 3: Minerals (https://ufl.instructure.com/courses/378877/assignments/3975920)	due by 11:59pm
	 Smartwork5: (4) Quiz - Chapter 3: Minerals (https://ufl.instructure.com/courses/378877/assignments/3975921)	due by 11:59pm
Sun Mar 3, 2019	 Smartwork5: (5) Learning/Reading Activity - Chapter 4: Volcanism & Igneous Rocks (https://ufl.instructure.com/courses/378877/assignments/3975922)	due by 11:59pm
	 Smartwork5: (5) Quiz - Chapter 4: Volcanism & Igneous Rocks (https://ufl.instructure.com/courses/378877/assignments/3975924)	due by 11:59pm
Tue Mar 19, 2019	 Smartwork5: (6) Learning/Reading Activities - Chapter 5: Sedimentary Rocks (https://ufl.instructure.com/courses/378877/assignments/3975925)	due by 11:59pm
	 Smartwork5: (6) Quiz - Chapter 5 Sedimentary Rocks (https://ufl.instructure.com/courses/378877/assignments/3975926)	due by 11:59pm
Tue Mar 26, 2019	 Smartwork5: (7) Learning/Reading - Chapter 9: Geologic Time and Dating (https://ufl.instructure.com/courses/378877/assignments/3975927)	due by 11:59pm
	 Smartwork5: (7) Quiz - Chapter 9: Geologic Time and Dating (https://ufl.instructure.com/courses/378877/assignments/3975928)	due by 11:59pm
Mon Apr 1, 2019	 Smartwork5: (8) Learning/Reading activity - Chapter 11: Energy & Mineral Resources (https://ufl.instructure.com/courses/378877/assignments/3975929)	due by 11:59pm
	 Smartwork5: (8) Quiz - Chapter 11: Energy & Mineral Resources (https://ufl.instructure.com/courses/378877/assignments/3975930)	due by 11:59pm
Mon Apr 8, 2019	 Smartwork5: (9) Learning/Reading Activity - Chapters 12 & 13: Groundwater (https://ufl.instructure.com/courses/378877/assignments/3975931)	due by 11:59pm
	 Smartwork5: (9) Quiz - Chapters 12 & 13: Groundwater (https://ufl.instructure.com/courses/378877/assignments/3975932)	due by 11:59pm

Date	Details
Mon Apr 15, 2019	 Smartwork5: (10) Learning/Reading Activity - Chapter 15: Oceans I (https://ufl.instructure.com/courses/378877/assignments/3975912) due by 11:59pm
	 Smartwork5: (10) Quiz - Chapter 15: Oceans I (https://ufl.instructure.com/courses/378877/assignments/3975913) due by 11:59pm
Sun Apr 28, 2019	 Extra Credit Quiz - Chapter 22 (https://ufl.instructure.com/courses/378877/assignments/3975910) due by 11:59pm
Mon Sep 2, 2019	 Smartwork5: (1) Learning/Reading activity - Prelude & Chapter 1 (https://ufl.instructure.com/courses/378877/assignments/3975914) due by 11:59pm
	 Smartwork5: (1) Quiz - Prelude & Chapter 1 (https://ufl.instructure.com/courses/378877/assignments/3975915) due by 11:59pm