

ESC1000 Introduction to Earth Science (Online) Sections 19CB, 19CE, 19ED, 1D60

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

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TAs: TBA

Textbook: *Earth Science* (eText) by *Tarback & Lutgens*. The cost is ~\$44 includes *Mastering Geology*, which will be used for some graded activities. This book is NOT part of the UF All Access program, so you will not have access until you purchase it.

Course goals Earth is dynamic planet that is continually being reshaped by forces generated within the solid earth, 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 operate within the solid earth, atmosphere, and oceans, as well as the interactions between them.

Course content & objectives

By clicking on the link for each module listed below you will find the following:

- (1) an *overview* that provides a short description of what to expect regarding the content of the module
- (2) A list of *objectives* for the module (the objectives are often quite broad)
- (3) A *study guide* for the module that provides links to more detailed objectives that are organized by topics covered within each module. You will want to refer to the study guide to prepare for quizzes and exams.
- (4) Links to all of the recorded *lectures*.
- (5) Links to *quizzes* and any *assignments* included in the module.
- (6) A list of readings from the textbook that go along with the content covered in the lectures, as well as supplemental resources that you may find interesting

Modules

Each module listed below is one week of class material

- Module 1 Introductory concepts
- Module 2A Earth materials
- Module 2B Earth materials
- Module 3A Plate tectonics
- Module 3B Plate tectonics
- Module 3B Plate tectonics
- Module 4 Earthquakes
- Module 5 Geologic time and dating
- Module 6 Earth's resources
- Module 7 Groundwater
- Module 8 The oceans
- Module 9A The atmosphere
- Module 9B The atmosphere
- Module 10A The solar system
- Module 10B The solar system

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 as threads can be continued. 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 mainly through recorded lectures that are available in Canvas. Additional material will be assigned as reading from the eText and interactive activities associated with the eText.

Graded activities

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|-----|---|
| 15% | Lecture-embedded (PlayPosit) questions |
| 20% | Quizzes |
| 20% | Assignments |
| 45% | Exams (three non-cumulative worth 15% each) |

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

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.

Quizzes: 25% for each day late (no submissions accepted after 48 hours past due date/time)

Assignments: 50% for each day late (no submissions accepted after 24 hours past due date/time)

Exams requires approved documentation submitted to the instructor ahead of time

Any technology issues encountered during online activities must be documented with screenshots of error messages, communications with UF Help desk, etc.

For technical assistance within Canvas visit the UF Helpdesk or call 352-392-4357). For assistance and technical issues associated with the eText, use the help links within the Pearson site.

Description of graded activities (Goals and logistics of each of the activities are discussed below)

Lecture (PlayPosit) questions Within each lecture you will find several multiple-choice questions that are embedded in, and interspersed with recorded lectures. These are simple questions that are either (1) review of material covered immediately before the question or (2) forward-looking questions where you are asked to make a basic observation regarding a figure, table, etc. The forward-looking questions (referred to in the lectures as “Make an observation”) are a prelude to material that will subsequently be covered in that lecture.

These questions are generally very simple and designed to keep you engaged throughout the lecture and to better remember the lecture material. You will not be able to proceed with viewing of the lecture until the question is answered. However, you may rewind to review the material before answering the question. These are simple questions and, given that you can review the material before answering, it is expected that you receive close to 100% for this portion of your course grade.

Quizzes Quizzes consist of ~10-25 multiple choice questions that cover the assigned material (generally from lectures). There will be one quiz every week that will be due Sunday evening. 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 all of the material. Quizzes are provided through Canvas. Be sure that you have a secure internet connection and enough time before beginning each quiz.

Assignments - In contrast to the quizzes and lecture-embedded questions, which emphasis basic recall and understanding, the assignments will require you to apply the concepts, analyze data, and/or perform calculations. Thus, these require more advanced thinking than the quizzes and lecture questions. Therefore, the points from the assignments are not as easily earned as in those activities. Not every week/module has an assignment - there will be several scattered throughout the semester. The assignments will be available through the *Assignments* link on Canvas. After determining your answers, your final answers will be input via untimed Canvas quizzes.

Exams - These will be multiple choice exams delivered through Canvas. Exam content will focus on a specific subset of material to be specified in the clear lists of objectives from the study guides provided in Canvas. Thus,

it will be helpful to be looking through the objectives and study guides while watching the 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). Any additional information will be given through Canvas announcements.

Suggested approach for success in the course

- (1) Look at the activities for the upcoming week (e.g., number/length of lectures, other activities beyond quizzes) so you can plan your week
- (2) Read through objectives and study guides to get a sense of the focus of the material in the lectures
- (3) Watch lectures and make notes in the study guides while watching the lectures
- (4) Look through the study guides and be sure you have completed them
- (5) Take the quiz with your completed study guides in hand
- (6) Complete any assignments due for that material. Assignments are typically due after the quizzes, but you may find it more effective to at least work through the assignment prior to taking the quiz. Recall that not every module/week will have an assignment.
- (7) Add additional notes to your study guides to incorporate material from the assignments. Some material in the assignments may not be covered on the quizzes
- (8) Review your study guides prior to the exam. If your study guides are completed as you progress through the material, then the last couple days before the exams can be spent reinforcing the material, rather than learning it for the first time.

Letter-grade assignment

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|----|-----------|
| A | 90 - 100% |
| A- | 88 - 90 |
| B+ | 86 - 89 |
| B | 80 - 86 |
| B- | 78 - 80 |
| C+ | 76 - 78 |
| C | 70 - 76 |
| C- | 68 - 70 |
| D+ | 65 - 68 |

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

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=itVU46DDJjnlg4CW6efJ).

Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/> (<https://gatorevals.aa.ufl.edu/public-results/>).