EESC 1010 – The Dynamic Earth – ONLINE SYNCHRONOUS
FALL 2025 8/26/2025 to 12/22/2025
Sections: UTAL/UTABL
Days: LECTURE – SUNDAYS 12:45PM TO 2:35PM
LAB – SUNDAYS 2:45PM TO 4:35PM

Instructor: Guillermo Rocha
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"Poor planning on your part does not necessitate an emergency on mine."

"Procrastination makes easy things hard, hard things harder."

ZOOM LINK FOR THE WHOLE SEMESTER:
Join Zoom Meeting

https://brooklyn-cuny-edu.zoom.us/j/88968245274?pwd=MEKgOcOx8aGW1Ckijhe0HUG0m6ayQH.1

Meeting ID: 889 6824 5274
Passcode: 449322

COURSE DESCRIPTION: Introduction to Earth science; NYC-focused, thematic examples of interaction between Earth's spheres, including plate tectonics; deep time; Earth materials and processes as resources and hazards; human interactions with the Earth system.

COMMUNICATION/OFFICE HOURS: I could be reached at (718) (951-5000 ext. 2887). My e-mail is grocha@brooklyn.cuny.edu. I will not receive any communications outside of the two listed. The best way to reach me is by email. I return emails promptly. Do not call the Geology Department with messages for me. The department does not accept messages. The assignments are announced in class and in Blackboard.

COURSE OBJECTIVES: Students mastering the material of this class will be able to do the following: (1) understand and define terminology commonly used in earth science; (2) briefly summarize and describe Earth's systems; (3) students will be able to list and understand interactions among Earth's systems(4) students will be able to read, critically evaluate presented information and data using scientific principles and concepts, synthesize popular media reports/articles discussing earth science, and verbally discuss and defend their positions on scientific issues; and (5) apply learned information to postulated earth science scenarios to predict potential outcomes.

REQUIRED TEXT (MATERIALS): LAB MANUAL - Earth and Environmental Science/ Laboratory Manual (required). Link below:
https://brooklyn.textbookx.com/institutional/index.php?action=browse#books/4898249/
Lab Manual costs $46.01
There is no textbook for the course

YOU MUST have the lab manual for the first day of classes 1/26/2025.
TECHNOLOGY REQUIREMENTS – Your exams will be timed and they will be held during lecture and lab hours, so it is of the **outmost importance to have access to a reliable computer with an internet connection** with a back-up computer (examples: friend or relative's computer). Also, the computer that you will use must have a web browser such as Firefox (Links to an external site.), Chrome (Links to an external site.), or Internet Explorer. Using excuses such as poor internet connection or limited access to a reliable will not be accepted, please plan ahead.
An email account is necessary as this will be used as a primary basis for communication.

*Class Participation – Class participation will be graded on basis of student's participation in weekly lectures and labs. Each discussion will be graded and tallied at the end of the semester for the grade discussed above.

Letter Grades are based on the following: 97 – 100 A+, 93 - 96.99 A, 90 to 92.99 A-, 87 to 89.99 B+, 83 to 86.99 B, 80 to 82.99 B-, 77 to 79.99 C+, 73 to 76.99 C, 70 to 72.99 C-, 67 to 69.99 D+, 60 to 66.99 D and 0 to 59.99 F.

I DO NOT "GIVE" grades, the grades are given by YOU (I just tally them up), if you put some effort in the class, you will get a decent grade (even an A), if you do not put any work at all your grade will also be a reflection of your lack of endeavor.

Online Attendance: **Online attendance is mandatory according to academic policy (this a synchronous online course)**. If you miss more than 3 course meetings you may be dropped from the class. I will monitor and track absences and late students and this may lower your semester grade.

The online Midterm and Final exams are given during class periods and they are timed (about 2 to 2 ½ hours) and they will be taken during the lecture period. The midterm and final exams consist of multiple choice, true or false, fill in the blank and short essay questions. All materials are subject to inclusion in the exam. This includes your notes, the lecture slides, the lab, lectures, and readings (if assigned).

Lab – After we finish a lab, we will have a timed online quiz during the lab period (usually towards the end of the lab period for about 1 to 1 ½ hours).

TERM PAPER: A term paper is required for this class. The topic will be in: "How is Geology Related To Me" (Why and how is geology relevant to you as an individual). The way on how you should choose a topic will be discussed at length on the first lecture. The paper must be at least 3 pages long (not including list of sources) and no more than 5 pages, double space, and citing academic sources (internet sources are valid). The paper should be emailed to me on either pdf or doc format. In order to get a full grade, make sure that you narrow down your topic inasmuch as you can (it is easy to write and to research if your topic is concise). For example, volcanoes would be a huge topic, but types of magmas in a volcano would be a great thesis to work on.

NOTE: Many students take online courses for granted; make sure that you STUDY and you are well prepared for every lecture and lab exams. Exams are timed and if you do not study, you will be flipping pages back and forth wasting precious time that usually leads to poor grades. Online courses are just as demanding or even more demanding than a class in a traditional setting.

ASSIGNMENTS – There will be some assignments that will count as a quiz grade.

EXTRA CREDIT: **There is ABSOLUTELY NO EXTRA CREDIT**, the grades you get through out the assignments are added and computed to give you a final grade. If you do not have a passing grade in the class, you do not have the basic knowledge of the subject necessary to pass the course. ALL the assignments count and will be added to your grade.

LAB - GRADING POLICY: Grading will be observed as follows:
Attendance 5%
Class Participation 5%
Lab grade (from the lab quizzes) 90%
THERE IS NO MAKE UP FOR QUIZ ASSIGNMENTS:

LECTURE - GRADING CRITERIA: SEMESTER GRADE - Your semester grade will be based on the addition of all your grades following the percentage criteria: attendance 3%, quizzes 3%, term paper 4%, class participation 3%, lab grade 29%, midterm exam 29% and final exam 29%.

Tentative Schedule for the EESC 1010 – The Dynamic Earth – FALL LECTURE/LAB 2025
Attendance is mandatory and it will be taken on every lab and lecture.

Day and date	Lecture 4:00PM to 5:40PM	Lab 6:00PM to 7:40PM
8/31/2025	No classes	No classes
9/7/2025	Earth as a Planet	Minerals
9/14/2025	Earth as a Planet Earth's Materials	Minerals Geologist in the Field (Rocks)
9/21/2025	Earth's Materials How Old Is Old?	Geologist in the Field (Rocks) Quiz #1 Minerals
9/28/2025	How Old Is Old? Plate Tectonics	Geology of the NYC Quiz#2 Rocks
10/5/2025	Plate Tectonics	Geology of the NYC Maps: Direction, Scales, Latitude and Longitude
10/12/2025	Plate Tectonics	Maps: Direction, Scales, Latitude and Longitude
10/19/2025	Plate Tectonics	Maps: Direction, Scales, Latitude and Longitude Quiz #3 Geology of NY
10/26/2025	Earthquakes and Earth's Interior	Maps: Contours, Profiles and Gradient
11/2/2025	Midterm Exam	Maps: Contours, Profiles and Gradient
11/9/2025	Earthquakes and Earth's Interior Volcanoes and Igneous Rocks	Fossils: Recognition and Preservation Quiz #4 Maps: Direction, Scales, Latitude and Longitude
11/16/2025	Volcanoes and Igneous Rocks Weathering and Erosion	Fossils: Recognition and Preservation Fossils: Dinosaur Running Speed Quiz #5 Maps: Direction, Scales, Latitude and Longitude
11/23/2025	Weathering and Erosion From sediment to sedimentary rock	Exploring Global Warming Quiz #6 Fossils
11/30/2025	No classes	No classes
12/7/2025	From sediment to sedimentary rock Metamorphism: New Rocks from Old	Exploring Global Warming How Did the Dinosaurs Died?
12/14/2025	Metamorphism: New Rocks from Old Water On and Under the Ground	How Did the Dinosaurs Died? Quiz #7 Exploring Global Warming
12/21/2025	Final Exam	