

Earth Science Today
GEOG 70163/38363
Winter 2019

Welcome to Earth Science Today. The purpose of this course is to prepare you to put together the content and skills necessary to prepare students to successfully complete the Earth Science Regents Exam. There are two sets of requirements, one for those of you in the MA-TEP and BA/MA program and one for those of you who are undergraduate majors taking this as a 300-level elective toward finishing your degree. The Blackboard site will be linked together, but don't worry, I know who's registered for which section. This is an asynchronous course, meaning there are due dates and times for your work but no times when everyone has to be logged in together. There is also more material on the Blackboard site than we will use for the class. This is for you to download and take with you as a new teacher—labs that cover the required Regents material, the state scope and sequence, and the curriculum map I created for the Regents Earth Science class I have been teaching for the past six years.

This course is fully online. All assignments are built into the course Blackboard site, as are the rubrics by which the assignments will be graded. Each assignment has a specific due date, and points will be deducted for assignments submitted late without an excellent excuse. ***All assignments are to be submitted on Blackboard. I will not accept emailed assignments.*** It is imperative that you maintain a stable internet connection, especially if you plan to travel at any point during the course. I do not give incompletes except in cases of legitimate documentable emergencies such as health emergencies or deaths in the family. The grade you have earned at the end of the semester is your grade for the course.

You are completing a semester's worth of work in 3 ½ weeks. It is essential that you keep aware of due dates for your assignments and create a schedule for yourself so that you do not fall behind. It is okay to submit work early, and you will be able to revise and resubmit as long as you resubmit revised assignments before the end of the semester. I cannot accept revised assignments after the final exam date since I need to submit grades shortly thereafter. The only students who qualify to request grades of Cr/NC will be **undergraduate** students who complete all assignments in a timely manner (Hunter College rule). It is not a safety net for students who are missing work and are concerned about their grade.

Instructor:	Prof. Ines Miyares
Office:	HN 1045
Department Office:	HN 1006
Telephone:	(212) 772-5443
Office Hours:	Tuesday & Wednesday 4:30-5:25 or by appointment
email:	imiyares@hunter.cuny.edu

Email is the best way to contact me.

Learning Outcomes:

- Students will be able to use and explain how to use the materials in the Earth Science Reference Tables.
- Students will be able to interpret “Common Core” wording of Regents questions to be able to communicate to high school students what the questions on the regents exam are actually asking.
- Students will be able to develop lessons that teach with the end in mind, the end being successful completion of the Regents written and lab practical exams.

- Students will be able to design a project-based learning unit.

Required Work and Grading:

The first day of class (or earlier if you begin as soon as I make the course accessible), you will complete the multiple choice questions from a recent Regents exam as a baseline. For those of you in the BA/MA and MA-TEP program, this will give you a sense of where you are in your preparation to teach this material. It does count for those in PGEOG 70163 but not for those in PGEOG 38363. However, you are required to complete it. For those of you in PGEOG 38363, it gives me a baseline for assessing your work for the balance of the semester. Please use the Earth Science Reference Tables found under Course Materials since students would use the reference tables for the exam.

You will then be creating 42-minute lesson plans for required topics. I have provided a template for those of you who have not yet taken that course in the School of Education. I have programmed two attempts for each lesson plan so that you can revise and resubmit, if necessary.

Those of you in PGEOG 70163 will create two lesson plans per topic. Those of you in PGEOG 38363 will create one lesson plan per topic. Why 42 minutes? Because I want you to be able to take these with you into the classroom and most schools have periods between 40 and 45 minutes. Make sure you incorporate using the reference tables since you need to teach how to use every table by the end of the year. Try to incorporate activities. Think about whether the lesson will take more than one period. For example, teaching students how to find an earthquake epicenter, one of three required skills assessed in the lab practical exam, typically requires two periods. If you are separating a lesson into two periods, make clear what will be covered each period. Yes, this can count as two lesson plans.

Those in PGEOG 70163 will also be developing a Project-Based Learning unit. I have provided an example and a template. Both groups will also complete a final exam.

Grading for PGEOG 383863:

Lesson Plans	80%
Final Exam	20%

Grading for PGEOG 70163:

Pre-test	5%
Lesson Plans	60%
PBL Unit	20%
Final	15%

There is no textbook for this course. All work is due by 11:00 pm on its scheduled due date. You do not need to create a lesson for each topic but one/two from the list of topics for that day. For those of you who will be teaching, these are the topics you will need to cover. If you use outside sources, please make sure you provide citations.

Topics:

- Jan 2: Beginning with the end in mind. Pre-test
- Jan 3: Latitude, longitude, time zones, using the NYS maps
- Jan 5: Isoline maps, topographic maps, topographic profiles

Jan 8: Minerals, minerals table

Jan 10: Rocks-rock cycle, igneous rocks, igneous rocks table, sedimentary and metamorphic rocks and rocks tables, using the NYS geological map

Jan 12: Plate tectonics, plate tectonics map, layers of the earth table, Earthquakes, earthquake epicenters, volcanoes

Jan 14: Water cycle, groundwater, water-related weathering and erosion, water transport table

Jan 16: Coriolis effect, oceans, ocean circulation, phases of the moon, graphing tides

Jan 18: Climate, global winds, weather, weather maps, weather equipment, Relative humidity, dew point, weather station models

Jan 22: Planets, stars table, eccentricity, eccentricity on the lab practical

Jan 23: Final exam; PBL unit due

Hunter College statement on Academic Integrity: Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures. Plagiarism, dishonesty, or cheating in any portion of the work required for this course will be punished to the full extent allowed according to Hunter College regulations.

All PBL units will be submitted to SafeAssign. If the SafeAssign report returns showing evidence of significant plagiarism, you will receive a zero for that assignment and I will contact the Dean of Students for disciplinary action. Plagiarism is theft of words and ideas and is taken very seriously by Hunter College.

ADA Policy

In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical, and/or Learning) consult the Office of AccessABILITY, located in Room E1214B, to secure necessary academic accommodations. For further information and assistance, please call: (212) 772- 4857 or (212) 650-3230. If you have a documentable disability or condition that makes it impossible to complete an assignment as written, please contact me immediately so an alternative can be arranged.

Hunter College Policy on Sexual Misconduct

In compliance with the CUNY Policy on Sexual Misconduct, Hunter College affirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationship. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.

- a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, on contacting the College's Public Safety Office (212-772-4444)
- b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-

3262) of Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.

CUNY Policy on Sexual Misconduct

Link: <http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct-12-1-14-with-links.pdf>

Syllabus Change Policy

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

If changes are made to the syllabus, I will notify you via email through Blackboard. It is essential that you have your correct email linked to your Blackboard account and that you check your Hunter or other Blackboard-linked email regularly. Bounced emails will not be an acceptable excuse for not being aware of changes or any other communications to the class.