

Earth Science Today
GEOG 70163/38363
Fall 2017

Welcome to Earth Science Today. The purpose of this course is to prepare you to put together all the content and skills necessary to prepare students to successfully complete the Earth Science Regents exam. We will discuss the required content and complete labs that most commonly appear on the Regents exam, as well as examine how to prepare students for the lab practical exam. Attendance and full participation is essential.

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Email is the best way to contact me.

Learning Outcomes:

- Students will be able to use and explain how to use the material 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 questions are looking for.
- 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.

Grading:

Each week we will review the content related to a required topic and will complete a related lab activity. Full participation and completion of the lab will be graded. Additionally, you will develop a project-based learning unit that could be implemented in an earth science class. There will also be weekly quizzes using questions from recent Regents exams.

There is no textbook for this course. You will receive a copy of the Earth Science Reference Tables and an extra copy of each lab and activity we complete in class.

Topics:

Week 1: Beginning with the end in mind. June 2017 Regents exam
Week 2: Maps and mapping 1-Latitude, longitude, time zones, using the NYS maps
Week 3: Maps and mapping 2-Isoline maps, topographic maps, topographic profiles
Week 4: Minerals, minerals table, minerals lab, minerals on the lab practical exam
Week 5: Rocks 1-rock cycle, igneous rocks, igneous rocks table

Week 6: Rocks 2-Sedimentary and metamorphic rocks and rocks tables, using the NYS geological map, rocks on the lab practical exam
Week 7: Plate tectonics, plate tectonics map, layers of the earth table, project-based learning, introduction to final project
Week 8: Earthquakes, earthquake epicenters, earthquake epicenters on the lab practical
Week 9: Volcanoes, links to rocks and minerals, more earthquake epicenter practice
Week 10: Water cycle, groundwater, water weathering and erosion, water transport table
Week 11: Coriolis effect, oceans, ocean circulation, phases of the moon, graphing tides
Week 12: Climate, global winds, weather, weather maps, weather equipment
Week 13: Relative humidity, dew point, weather station models
Week 14: Review earth-sun-moon relationships, planets, stars table, eccentricity, eccentricity on the lab practical
Week 15: Final presentations of PBLunits, PBL units 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 reaffirms 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 relationships. 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, or 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) or 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.