GEOL 10100-01 ONLINE
Introductory Geology Laboratory Syllabus
Section 1: Monday and Thursday 11:10 AM - 12:25PM
Spring 2021

Instructor: Prof. Rashkova
Office: BB COLLABORATE
Office Hours: Monday 12:30-1:30PM by appointment or through email.
E-mail: ar9108@hunter.cuny.edu (please include GEOL 101 in the subject line along with your full name as it appears in CUNYFirst)

Brief description/purpose of course:
GEOL 101, Introductory Geology Lab, is a laboratory science course. GEOL 101 assists you, in learning and expanding your understanding of the scale of the Earth and the forces that shape it with laboratory and field experiences. This course will serve as an introduction to the earth sciences and will prepare you for further coursework in the Environmental Studies program. It will also give you a working knowledge and vocabulary to take other physical geography and geology courses. Moreover, it will introduce you to some of the cutting-edge technologies used in the earth sciences, potentially drawing some of you into an earth science related career path. In general, there will be a 1:2 ratio between lecture and lab work over the course of each week.

The objectives and goals of this course include:

- An understanding of the nature of science and the scientific method.
- The importance of thinking critically about scientific data.
- A basic understanding of the rocks and minerals that make up the earth and the ability to identify the most important types of rocks and minerals and how they are formed (the rock cycle).
- A basic understanding of plate tectonics.
- An understanding of the vastness of geologic time, the Principle of Uniformitarianism and how geologists assess the ages of geologic features.
- An understanding of the formation and distribution of natural resources and the costs and benefits of their extraction.

This course will fulfill the **Common Core Requirement for category C, Life and Physical Sciences**.

Learning Outcomes:
By the end of this course, students will be able to:

- Describe the key components of the scientific method.
- Describe and identify rocks and minerals based on detailed observations.
- Relate geologic processes and the distribution of rocks, minerals, and geologic resources to the theory of Plate Tectonics.
- Interpret geologic cross sections with respect to geologic time and the rate of geologic processes.

COURSE STRUCTURE
This is a fully online course. All materials will be available on the **Hunter College Blackboard** site. The

Blackboard site will have a **"Weekly coursework"** page. For each week there will be folder labelled by topic containing recommended reading, additional articles, an assignment, and/or other materials. Students are expected to complete all the work in each folder on a weekly basis.
Most class meetings will be held synchronously on **Blackboard Collaborate Ultra** and they will be recorded so they can be available asynchronously. ATTENDANCE IS MANDATORY and will be taken every class, this is part of your participation grade. (The dates when there is no class meeting are shown in the schedule on the last page of this syllabus). All students must register with **Pearson's My Mastering** through Blackboard to be able to do the Mastering assignments. Instructions for registration are posted on Blackboard.
In addition, there will be a **class discussion board** where students can discuss the course material, ask, and answer questions and discuss the case study material. I will respond to Discussion Board posts, email, and have virtual office hours by appointment.

Required textbook:

E-Textbook and access code for Mastering Geology:
Laboratory Manual in Physical Geology, edited by Vincent S. Cronin, Mastering with eText (ISBN 9780135870389), 12th Edition 2020, Pearson.

Class meetings and lab exercises:

- All scheduled class meetings will be conducted through **Blackboard Collaborate Ultra.**
- Laboratory Preparation: Come to class prepared. I expect you to have read the laboratory exercise listed for each class prior to the beginning of that class period. Laboratory exercises are complex, and if you do not read them before class you will have difficulty turning them in on time.
- You will complete the **lab exercises** in the lab manual for each lab and submit it via Blackboard (as a WORD/PPT/PDF document including all the figures that you refer to) with an introduction and conclusion in your own words. A link will be available in each module for you to submit your lab exercise. This is Part 1 of your lab work.
- You will log into **Pearson's My Lab and Mastering** via Blackboard and complete some questions for each lab. These will be graded. This is part 2 of your lab work.
- Grading of your laboratory exercises will be based on the quality and accuracy of the observations, explanations, answers to questions and conclusions. The grading of your laboratory exercises will be as follows: 5=excellent, 4=good, 3=fair, 2=poor, 1=terrible, 0=not handed in.
- Late submissions are accepted (up to one week after due date) with a 20% grade reduction.
- There will be **Rock and Mineral identification exams and a FINAL EXAM** that will be administered online through Blackboard.
- If you miss an exam accurate documentation must be provided in order to take the exam within a one-week period, with a 20% reduction in the grade.
- There will be a self-guided or virtual **field trip** that you will take to Central Park to study the geology of New York City. There will be two assignments associated with this module.

Course evaluation/grading:

Assignments	**Weighting**
• Lab exercises	40%
• Mastering Assignments	20%
• EXAMS	30%
• Class Participation	10%

Participation is a very important part of your final course grade. It can include anything from asking questions and participating in class discussions during the lecture on Blackboard collaborate and on the Discussion Board.

A final grade of IN (incomplete) is not normally given in this course except, again, under the most extraordinary and documented circumstances. You must contact me within 48 hours of the scheduled day/time of the final exam and complete a Contract to Resolve an Incomplete Grade. Otherwise, I will average your laboratory, exam, and attendance and participation grades and record what you have earned. To qualify for Credit/No Credit you must have completed **all nine laboratory exercises, taken the three exams, and have satisfactory attendance and participation.** The Hunter College grading system will be used in this class and can be viewed in the latest undergraduate catalog available online at http://catalog.hunter.cuny.edu/.

As per CUNY, an **Unofficial Withdraw (WU)** is assigned to students who **attended a minimum of one class**. It is important to understand the definition of a WU and the difference between this grade and an F grade. The conditions for assigning the WU grade include:

1. A student's enrollment has been verified by the course instructor, and
2. The student has severed all ties with the course at any time before the final exam week and, consequently, has failed to complete enough course work -- as specified in the course syllabus -- to earn a letter grade, and
3. The student has not officially withdrawn from the course by completing the process for a W grade, or made arrangements to receive an INC.

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.

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.

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) 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

Tentative Syllabus for Spring 2021

*** This schedule may be altered slightly during the course of the semester ***

WEEK	DATES	TOPIC/ACTIVITY
1	Feb. 1	Introduction, materials/ responsibilities
	Feb. 4	LAB 1: Filling your Geoscience Toolbox
2	Feb. 8	LAB 1: Filling your Geoscience Toolbox
	Feb. 11	**NO CLASS MEETING** ***(LAB 1 and Mastering Assignments Due)***
3	Feb. 15	LAB 2: Plate Tectonics
	Feb. 18	LAB 2: Plate Tectonics
4	Feb. 22	LAB 2: Plate Tectonics
	Feb. 25	**NO CLASS MEETING** ***(LAB 2 and Mastering Assignments Due)***
5	Mar. 1	LAB 3: Mineral Properties, Uses, and Identification
	Mar. 4	LAB 3: Mineral Properties, Uses, and Identification
6	Mar. 8	LAB 3: Mineral Properties, Uses, and Identification
	Mar. 11	**NO CLASS MEETING** ***(LAB 3 and Mastering Assignments Due)***
7	Mar. 15	LAB 3: Review of Minerals
	Mar. 18	**Mineral Practical (NO CLASS MEETING)**
8	Mar. 22	LAB 4: The Rock Cycle
	Mar. 25	LAB 5: Igneous Rocks and Processes
9	**Mar. 29**	**SPRING RECESS NO CLASSES** ***(LAB 4 and Mastering Assignments Due)***
	Apr. 1	**SPRING RECESS NO CLASSES**
10	Apr. 5	LAB 5: Igneous Rocks and Processes
	Apr. 8	**NO CLASS MEETING** ***(LAB 5 and Mastering Assignments Due)***
11	Apr. 12	LAB 6: Sedimentary Rocks and Environments
	Apr. 15	LAB 6: Sedimentary Rocks and Environments
12	Apr. 19	LAB 6: Sedimentary Rocks and Environments
	Apr. 22	**NO CLASS MEETING** ***(LAB 6 and Mastering Assignments Due)***
13	Apr. 26	Lab 7: Metamorphic Rocks, Processes, and Resources
	Apr. 29	**NO CLASS MEETING** ***(LAB 7 and Mastering Assignments Due)***
14	May.3	**ROCK REVIEW**
	May. 6	**Rock Practical (NO CLASS MEETING)**
15	May. 10	LAB 8: Dating of Rocks, Fossils, and Geologic Events
	May. 13	LAB 8: Dating of Rocks, Fossils, and Geologic Events
16	**May. 17**	**FINAL EXAM REVIEW** ***(LAB 8 and Mastering Assignments Due)***
	TBD	**FINAL EXAMINATION**
	TBD	***Geology of NY and Central Park Field Trip Assignments Due by Final Exam***