

GEOL 100 – Introduction to Geology
Section 02: T, Th 5:30pm – 6:45pm (In Person)
Fall 2022 Semester Dates: 8/25/22 – 12/21/22
Lecture Room: Hunter North 510

*This course will fulfill the Common Core Requirement for category D, Scientific World.

My Office: Hunter North Room 1032
Office Hours: After class on T, Th 7-8pm
E-mail: Thomas.Carboni72@myhunter.cuny.edu
Department Office: 1006 Hunter North

Contact Policy: In order for me to respond to your emails as efficiently as possible please adhere to the following instructions: (1) Include the course name and number in your subject line (GEOL 100). (2) Include your entire name as it appears in CUNYfirst in your email (3) Email me from your @myhunter account. I try to answer all emails within 48 hours. Feel free to email me again if you do not get a response within the aforementioned time window.

Brief description/purpose of course: This course will be of interest to any student who wants to learn more about the Earth as well as to those contemplating a major in Geography or Environmental Studies. The lecture will cover the formation of the Earth, minerals, rocks and the rock cycle, plate tectonics, geophysical properties of the Earth, earthquakes, volcanism, the structure and formation of the sea floor and mountain building, all in the framework of vast geologic time.

Under the Hunter Core Requirements this course satisfies D, Scientific World. For Psychology majors, this course, combined with GEOL 101, satisfies one of the laboratory science requirements. For everyone else, you do not need to take the lab and lecture together. They are separate courses.

Required textbook:

PLEASE WAIT UNTIL A FEW DAYS AFTER THE FIRST DAY OF CLASS TO BUY! WAIT UNTIL YOU RECEIVE AN EMAIL FROM ME ON BLACKBOARD ABOUT THE TEXTBOOK!

Marshak, Stephen. Essentials of Geology, 7th edition ISBN-13: **978-0393882728**

Book can be purchased from here: <https://wwnorton.com/books/9780393882728>

Ebook and online access to materials which you'll need for weekly quizzes are available for \$60. If you'd like a physical copy of the book, you must be sure that it comes with an online access code.

Expected Student Outcomes: At the end of the course the successful student shall be able to:

- Describe the formation of our universe and our planet
- Explain the earth's internal composition and layer properties
- Describe Plate Tectonic Theory
- Describe how particular geologic features form
- Explain mineral formation, properties, and methods of identification

- Describe the Rock Cycle and how each type of rock forms
- Understand and be able to interpret geologic hazards
- Recognize geologic structures
- Discuss geologic time and Earth History
- Identify human impacts on climate

Course Grading Summary:

Exam 1: 25%

Exam 2: 25%

Final Exam: 30%

Homework (Smartwork Quizzes) 20% (in total)

Exams and Grades

a) Letter grades are given based on Hunter College's official grading policy:

<http://catalog.hunter.cuny.edu/content.php?catoid=15&navoid=1433>

b) Exams 1 and 2 will be about 55-60 multiple choice questions which will be given in class on scantrons. The final will be cumulative and have 65-70 multiple choice questions (more info towards end of semester).

c) Make-up exams are ONLY available in extreme cases, and with medical (or other) forms that confirm the absence.

d) For the most up to date Pass / No Credit Policy, please check the following link for details:

<https://hunter.cuny.edu/students/registration/register-for-classes/credit-no-credit/>

e) There will be NO INCOMPLETES (with the exception of a death, serious illness, or mandatory work-related issues such as travel). Incompletes must be requested in writing prior to the last class session (unless of an unforeseen emergency as outlined above) and will be given only if your grade is at "C" or above at the time the IN is filed, with evidence of a satisfactory reason, and with at least 75% of the homework completed. At the time you request an IN you must also complete a contract to resolve an incomplete grade (form available at the college) and get my signature. Otherwise, I will average your existing grades based on the course grading rubric and record the grade you have earned.

Homework: There will be online homework quizzes (SmartWork exercises) using the materials from the textbook. They will be due a week from when we finish a chapter in class.

Lecture: I will explain the key concepts of geology in each chapter. You are expected to devote time outside the classroom to understand the concepts, review questions given at the end of chapters in the textbook, or questions that I may ask in class. I expect that lectures will give you a clear idea of what is expected in the homework and exams. (Note: as a general rule of thumb for a college level course, you are expected to spend 2-3 hours outside the classroom for each hour in the classroom in order to receive a good grade). Powerpoints will be posted on blackboard at least a day or two before the topic is discussed in class.

The following are useful tips to do well in this or any class:

- Attend class and take detailed notes (mostly of what I say and verbally emphasize since PowerPoints will be posted on blackboard).
- Read the assigned material in the text (or other) before coming to class / watching the lectures.
- Re-write your notes as soon as possible after class. This will allow you to fill in the details still fresh in your memory, and prepare questions.
- Test yourself by answering the questions in the book and in class.
- Carefully study the diagrams and charts in the book and in the lectures.

Extra Credit: No extra credit is given in this course. Whatever effort you would put into an extra credit assignment put into completing homework assignments and studying for exams. If you have concerns about your grade please come and talk to me

Hunter College Policy 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 the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

ADA Policy – Students with Disabilities: 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) of Colleen Barry (colleen.barr7@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 Schedule of Topics

Below is a tentative schedule of lecture topics and the associated chapter material.

I reserve the right to change the schedule and/or assignments as necessary. Here is a link to the academic calendar for other important dates such as tuition refund dates and withdrawal dates:

<http://www.hunter.cuny.edu/onestop/calendars>

DAY	DATE	CLASSWORK	Smartwork Quiz Due
Th	25-Aug	Syllabus Overview ; Ch 1 – Earth in Context	
Tu	30-Aug	Ch 1 – Earth in Context	
Th	1-Sep	Ch 2 – Plate Tectonics	
Tu	6-Sep	Ch 2 – Plate Tectonics	Ch 1
Th	8-Sep	Ch 8 - Earthquakes	
Tu	13-Sep	Ch 8 - Earthquakes	Ch 2
Th	15-Sep	Ch 3 – Minerals	
Tu	20-Sep	Ch 3 - Minerals	Ch 8
Th	22-Sep	Ch 12 – Energy and Mineral Resources	
Tu	27-Sep	No Classes at Hunter College	Ch 3
Th	29-Sep	No Class for our GEOL 101 Section – Monday Schedule	Ch 12
Tu	4-Oct	No Classes at Hunter College	
Th	6-Oct	Exam 1 (Ch 1, 2, 3, 4, 12)	
Tu	11-Oct	Ch 4 – Magma and Igneous Rocks	
Th	13-Oct	Ch 4 – Magma and Igneous Rocks	
Tu	18-Oct	Ch 5 - Volcanoes	
Th	20-Oct	Ch 5 - Volcanoes	Ch 4
Tu	25-Oct	Interlude B – Sediments and Soils & Ch 6 – Sedimentary Rocks	
Th	27-Oct	Ch 6 – Sedimentary Rocks	Ch 5
Tu	1-Nov	Ch 7 – Metamorphism (Metamorphic Rocks)	
Th	3-Nov	Ch 7 – Metamorphism & Interlude C – Rock Cycle	Ch 6
Tu	8-Nov	Ch 11 – A Biography of Earth	
Th	10-Nov	Ch 11 – A Biography of Earth & Ch 10 – Geologic Time	Ch 7
Tu	15-Nov	Ch 10 – Geologic Time	
Th	17-Nov	Exam 2 (Ch 4, 5, 6, 7, 10, 11)	Ch 11
Tu	22-Nov	Ch 13 – Landslides and Other Mass Wasting	Ch 10
Th	24-Nov	No Classes at Hunter College	
Tu	29-Nov	Ch 14 – Streams and Floods	Ch 13
Th	1-Dec	Ch 18 – Glaciers and Ice Ages	Ch 14
Tu	6-Dec	Ch 18 – Glaciers and Ice Ages	
Th	8-Dec	Ch 19 – Global Change in Earth System	Ch 18
Tu	13-Dec	Ch 19 – Global Change in Earth System	
Th	15-Dec	No Classes – Beginning of Finals (But not our Final!)	
Tu	20-Dec	Final Exam : 5:20 – 7:20 (Cumulative) Note: Different time than class time!	Ch 19