GEOL 10000 - Introduction to Geology  
Instructor: Tom Carboni

Mondays and Wednesdays 9:30am – 12:38pm  
Summer 2016: 6/1/16 – 7/13/16  
Classroom: 1021 HN

Email: Thomas.Carboni72@myhunter.cuny.edu  
Office: Room 1032 Hunter North (Ring Doorbell)  
Office Hours: TBA

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. (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 24 hours. Allow for a 48 hour delay on the weekends.

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 meets twice per week for approximately 3 hours each session. The lecture will cover the formation of the Earth, 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. This course also fulfills the Stage 2 group E of the General Education Requirement (GER). Combined with GEOL 10100, this course satisfies one of the core requirements for the “new” geography major. For Psychology majors, the course, combined with GEOL 10100, satisfies one of the laboratory science requirements.

Required textbook: A textbook and associated online homework system, Smartwork, are required for this course.


Note: Do NOT purchase from Amazon. It will not come with the online HW system SmartWork. Please purchase from the link below. Only $47.50 for ebook and Smartwork5 registration!


If you would rather buy the book used from elsewhere here is a link to buy the SmartWork registration separately, although you won’t be saving much money. There is only a $27 difference between buying the code and the ebook and code together (I have not done this myself so I am unsure of how it works):

Expected Student Outcomes: At the end of the course the successful student shall be able to:
- Describe Plate Tectonic Theory
- Describe the Rock Cycle
- Describe the scientific method and the common tools applied in geology
- Recall geophysical properties of the Earth
- Recognize geologic structures
- Discuss geologic time and Earth History
- Identify human impacts on climate

Course Grading Summary:
- Homework Assignments: 40%
- Exams 1 and 2: 30%
- Final Exam: 20%
- Attendance and Participation: 10%

About examinations and grades
a. Grades follow Hunter’s grading system: [link]
b. Examinations 1 and 2 are 1 hour and 15 minutes long. The final exam will be 2 hours long. All exams must be turned in promptly. If you arrive late, you lose that time.
c. Make-up exams are ONLY available in extreme cases, and with medical (or other) forms that confirm the absence.
d. I will agree to the CR/NC option only if the conditions stated in the CR/NC form are satisfied: all course work has been completed and you earned grades such that you accumulate at least 50 points total in the course. Students on probation are not eligible for this option. Students must make an appointment to discuss this option with me at least one week before the final exam. Requests for CR/NC as a final grade will not be accepted during or after the final exam.

Classroom policies: You are expected to have read the reading listed for each class day before class on that date. This will optimize your learning. There is no texting permitted in the classroom. I do not want to repeat things 10 times to those who were not paying attention. Give me respect while I teach and I will answer all the questions you have. Earphones are not to be worn in the classroom (either on ears or around neck). Laptops are permitted; however, I strongly suggest that you do not use a lap top in class but rather take notes by hand and/or listen attentively. You are responsible for doing all online assignments in a timely fashion, i.e. within the week or unit they are assigned. Please remember that access to the internet occasionally fails to work for many reasons beyond your or my control.

Lecture: I will spend part of the lecture time explaining the key concepts of geology. 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 quizzes and exams. (Note: as a general rule of thumb for a college level course, you are expected to spend three hours outside the classroom for each hour in the class room.)

Suggestions: It is important to start with a good study habit. Consistency is the key. Forming study groups is extremely helpful. Use my time and any resource available to you throughout the semester. Make progress
steadily as the material in this course cannot be understood the night before the exam. Concentrate on understanding rather than “regurgitating”. Put out your best effort every day!

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

- Attend class and take detailed notes.
- Read the assigned material in the text (or other) before coming to class.
- 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 for the next time the class meets.
- 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 I grant extra credit to one student, then to be fair I have to offer it to every student. 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.

**Schedule of topics and readings:** The next page contains a schedule of class meetings, topics and reading assignments. Please note that the readings and assignments are due on the dates indicated and are to be submitted via Smartwork. A detailed schedule for readings, activities and assignments is given on the course BB page. The BB page is organized by date. Each class meeting date given on the syllabus has an associated folder that contains readings, additional materials and in some cases an assignment. It is imperative that you go through each folder and complete the work as scheduled on the syllabus so that you do not fall behind in the course. This course is carefully structured so that you learn the material efficiently.
### Tentative Schedule of Topics

*All Homework Due on stated day by 11:59pm*

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DAY</th>
<th>DATE</th>
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| 1    | W   | June 1<sup>st</sup> | What is Geology?  
Chapter 1 – The Earth in Context  
(Formation of Universe, Solar System, and the Earth System)  
*HW DUE*  
Ch 1  
6/5/16 | Saturday 6/4 – last day to register.  
Sunday 6/5 – Course Withdrawal Drop Begins  
(Grade of WD if dropped) |
| 2    | M   | June 6<sup>th</sup> | Chapter 2 – The Way the Earth Works: Plate Tectonics  
*HW DUE*  
Ch 2  
6/12/16 |
|      | W   | June 8<sup>th</sup> | Chapter 3 – Patterns in Nature: Minerals  
Chapter 12 – Riches in Rock: Energy and Mineral Resources  
*HW DUE*  
Ch 3  
&  
Ch 12  
6/12/16 | Thursday June 9<sup>th</sup> – Course Withdrawal period begins  
(Grade of W if dropped) |
| 3    | M   | June 13<sup>th</sup> | Interlude A – Rock Groups  
Ch 4 – Up From the Inferno: Magma and Igneous Rocks  
*HW DUE*  
Ch 4  
6/19/16 |
|      | W   | June 15<sup>th</sup> | Ch 5 – The Wrath of Vulcan: Volcanic Eruptions  
*HW DUE*  
Ch 5  
6/19/16 |
| 4    | M   | June 20<sup>th</sup> | **Exam # 1** -  
Ch. 1,2,3,4,5,12, Interlude A  
Interlude B – A Surface Veneer: Sediments and Soils  
Chapter 6: Pages of Earth’s Past: Sedimentary Rocks  
*HW DUE*  
Ch 6  
6/26/16 |
|      | W   | June 22<sup>nd</sup> | Ch 7 – Metamorphism: A Process of Change  
Interlude C – The Rocks Cycle  
Ch 8 – A Violent Pulse: Earthquakes  
Interlude D - The Earth’s Interior Revisited: Insight from Geophysics  
*HW DUE*  
Ch 7  
&  
Ch 8  
6/26/16 |
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<tr>
<th>Week</th>
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<th>Assignments</th>
<th>Course Dates</th>
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<tr>
<td>5</td>
<td>M</td>
<td>June 27th</td>
<td>Ch 9 – Crags, Cracks, and Crumples: Geologic Structures and Mountain Building.</td>
<td>Ch 9 7/3/16</td>
<td>Monday June 27&lt;sup&gt;th&lt;/sup&gt; – Course Withdrawal period ends</td>
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<td>W</td>
<td>June 29th</td>
<td><strong>Exam #2</strong> – Ch. 6,7,8,9, Interludes B – D Interlude E – Memories of Past Life: Fossils and Evolution Ch. 10 – Deep Time: How Old is Old?</td>
<td>Ch 10 7/3/16</td>
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<td>6</td>
<td>M</td>
<td>July 4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>NO CLASSES!</td>
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<td>W</td>
<td>July 6&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Ch 11 – A Biography of Earth Interlude E Ch. 18 – Amazing Ice: Glaciers and Ice Ages</td>
<td>Ch 11 &amp; Ch 18 7/10/13</td>
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<td>7</td>
<td>M</td>
<td>July 11&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Ch 19. Global Change in the Earth System</td>
<td>Ch 19 7/12/13</td>
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<td>July 13&lt;sup&gt;th&lt;/sup&gt;</td>
<td><strong>Final Exam:</strong> All Previous Chapters with a focus on Ch 10,11,18,19</td>
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<td>Freedom</td>
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