SYLLABUS for GEOLOGY 120-03
Introduction to Geology

***Credits**:* 3.0
CRN: 571
Class meets Lecture: MW, 10:00 a.m. - 10:50 a.m., Lab F, 10:00-11:50 a.m., 202 Sci1
Prerequisites: None. Satisfies LA, CPA, and General Education 2000 attribute NL2.

Instructor

***Instructor*:** Les Hasbargen
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Text

Essentials of Geology, by Stephen Marshak, 3rd Edition, W. W. Norton & Company, Inc. ISBN 0-393-93238-9. The Geotours Workbook (often packaged with the textbook) is not required for the course. I will allow students to purchase the ebook version of the textbook online at www.NortonEbooks.com for a substantial discount. Here's the publisher's web site with helpful outlines, key terms, quizzes, etc.: http://www.wwnorton.com/college/geo/egeo/.

This course uses an online course management system, Angel, to transmit information such as the syllabus, lecture schedule, and lecture notes; administer quizzes; post grades on quizzes and exams; and provide links to online information. You will need a university email ID and password to access course information on Angel. You can find a link to Angel on SUNY Oneonta's main web page (from the pull down menu), or use this link and bookmark it: https://angel.oneonta.edu/default.asp.

The Course in a nut shell…

Welcome to Planet Earth! This is an overview course that serves as an introduction to the solid Earth's structure and chemical make-up; processes that operate within the Earth and on Earth's surface; and the rocks that give us the story of such interactions. You will learn about minerals; about weathering, transport, and deposition of sediments; about melting, recrystallization and flow of rocks; about huge forces that fold and rupture continents; about surprises on the sea floor that gave scientists the clues to understand Earth's crustal dynamics; and about the vigorous interactions between rocks, atmosphere, climate and water at Earth's surface. These processes operate over long, long, unthinkably long, time scales, though often we can see the processes operate in real time, such as a volcanic eruption or an earthquake. So you will be introduced to aspects of geologic time, how we measure it, and how the rocks reveal the unfolding of Earth history. Bring your curiosity, bring your questions, and come prepared to learn!

Course Description (from the Undergraduate Catalog) "This course provides an introduction to earth materials, structures, and processes and the basic geological principles used to interpret the evolution of the earth through time. Laboratory exercises promote skills in 1) mineral and rock identification; and 2) interpretation of geological materials, structures, and processes from maps, digital datasets and direct observations."

SUNY Learning Outcome "Students will demonstrate understanding of the methods scientists use to explore natural phenomena including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of mathematical analysis. Students will demonstrate application of scientific data, concepts, and models in one of the natural sciences." Laboratory exercise, quizzes, and exams will be used to assess student mastery of the learning outcomes.

Course Goals/Objectives The primary goal of the course is to provide students with an awareness and basic understanding of Earth's geological systems and how these systems interact with human activities. Understanding Earth is fundamental to humanity's search for a better way of life, as we are inextricably caught up and dependent on Earth for sustenance. Hence, this course seeks to provide a sound understanding of what Earth is and how Earth works. Specific objectives include identification of rocks and minerals, appreciation of the components of plate tectonics, awareness of deep time, appreciation of hazards associated with floods and landslides, coastal processes, and an understanding of the process of scientific inquiry.

Grading

Grades will be based on 3 mid-term exams, lab grades, online quizzes, and a final exam.

Exams. There will 3 midterm and 1 final exam in this course. Exam questions will consist of multiple-choice, short answer, and true-false questions. There will be roughly 50 questions on each midterm exam, and about 120 questions on the final. If you anticipate missing an exam, **you must contact the instructor before the date of the exam**. Acceptable reasons for absence include serious illness, a death in the family, or a personal tragedy. See the Undergraduate Catalog for excusable absences. A make-up exam will be provided at an alternative time.

Quizzes. There will be 9-12 quizzes administered online through Angel. The questions will be multiple-choice and true-false. Each quiz will usually have ~10-20 questions, and will have a deadline. There are no make-ups for missed quizzes. The quizzes are designed to help you learn content, as well as introduce you to the way that your instructor frames questions. Because the goal of these quizzes is to help you learn (and we often learn best by making mistakes!!), you can take the quiz as often as you like until you get a score you are happy with. The quiz will only be available to take for credit before the deadline, and you will have around 10-15 minutes to take the quiz. You will be alerted in class when the quiz will be available, and the times in which to take the quiz for credit will also be posted on Angel.

Lab Grade. The labs are designed to give you hands-on experience with rocks and minerals, and provide you with an exploratory experience with various topics within Geology. Each lab will have a set of exercises that you must complete. At the end of the lab period, you will take a short quiz on the material in the lab. Be sure to read

over the lab and try to complete the lab before the lab session, as this will help you absorb the material and prepare for the quiz. **You must pass the lab portion of the course with a score greater than 60% in order to pass the course**! Attend all labs, do the exercises, ask questions, and the lab grade will be the easy part of the course.

Here's the breakdown on grading:

30% Labs (comprising lab quiz scores)
10% Quizzes
30% Midterm Exams
30% Final Exam
100%

Final grade assignments will be guided by the standard University curve given below.

Percent	***Grade***	***Percent***	***Grade***	***Percent***	***Grade***	***Percent***	***Grade***
93-100	A	87-89.9	B+	77-79.9	C+	67-69.9	D+
90-92.9	A-	83-86.9	B	73-76.9	C	63-66.9	D
< 60	E	80-82.9	B-	70-72.9	C-	60-62.9	D-

Lecture Schedule (*this schedule is subject to change if more time is required*).

Week	**Monday 10:00-10:50 a.m.**	**Wednesday 10:00-10:50 a.m.**	**Labs: Friday 10:00-11:50 a.m.**
Jan 14-18	**NO CLASS**	Course Intro; Ch. 1	NO Lab!!
Jan 21-25	Tectonics, Ch. 2	Tectonics, Ch. 2	Lab 1: Tectonics
Jan 28-Feb1	Minerals, Ch. 3	Minerals, Ch. 3	Lab 2: Mineral ID
Feb 4-8	Igneous Rocks, Ch. 4	Igneous Rocks, Ch. 4	Lab 3: Igneous Rocks
Feb 11-15	Sed. Rocks, Ch. 6	**EXAM 1**	Lab 4: Sed. Rocks
Feb 18-22	**Spring Break 1**		
Feb 25-Mar 1	Geologic Time, Ch. 10	Geol. Time, Ch. 10	Lab 5: Geologic Time
Mar 4-8	Crustal Deformation, Ch. 9	Crustal Deformation, Ch. 9	Lab 6: Structural Geology
Mar 11-15	Earthquakes, Ch. 8	Earthquakes, Ch. 8	Lab 7: Earthquakes
Mar 18-22	Earthquakes, Ch. 8	**EXAM 2**	Lab 8: Earthquakes
Mar 25-29	**Spring Break 2**		
Apr 1-5	**Spring Break 2**	Volcanoes, Ch. 5	Lab 9: Volcanoes
Apr 8-12	Volcanoes	Volcanoes	Lab 10: Volcanoes
Apr 15-19	Coastal Processes, Ch. 18	Coastal Processes, Ch. 18	Lab 11: Coastal Processes
Apr 22-26	Coastal Processes	Landslides, Ch. 16	Lab 12: Landslides
Apr 29-May 3	Landslides, Ch. 16	Landslides, Ch. 16	**EXAM 3**
May 6-10	Review	Review	**Final Exam**
May 10	**FINAL EXAM, Friday 8:00-10:30 AM**		

Spring 2013 Calendar

January 13-15	Sunday-Tuesday	New Student Arrival & Orientation
January 16	Wednesday	Classes Begin
February 15	Friday	College Closes After Last Class
February 25	Monday	Classes Resume
March 22	Friday	College Closes After Last Class
April 2	Tuesday	Classes Resume
May 8	Wednesday	Follow Monday Class Schedule
May 9-15	Thursday-Wednesday	Finals
May 18	Saturday	Commencement

FINAL EXAM WEEK CLASS SCHEDULE
MAY 9 - 15, 2013
During the last week of the semester, day classes will meet for two and a half hour periods according to the schedule below.
These periods are to be used for instruction and/or examination.

Date and Time	Thursday May 9	**Friday May 10**	Monday May 11	Tuesday May 14	Wednesday May 15
8:00am-10:30am	10 Tu Th	**10 MWF**	9 MWF	8:30 Tu Th	8 MWF
11:00am-1:30pm	2:30 Tu Th	12 MWF	11 MWF	1 Tu Th	2 MWF
2:00pm-4:30pm	11:30 Tu Th	1 MWF	4 MW	4 Tu Th	3 MWF

Note: All Evening Classes (Starting at 5:00pm or later only) will meet at their regularly scheduled times.

Policy on Academic Dishonesty

Academic dishonesty results in a loss of trust and open-ness which is the heart and soul of student-mentor relations. Plagiarism and cheating will not be tolerated in this course. Please see the Code of Student Conduct for definitions and repercussions of Academic Dishonesty (http://www.oneonta.edu/development/judicial/code.pdf).

ADA (Americans With Disabilities Act) Statement

All individuals who are diagnosed with a disability are protected under the Americans with Disabilities Act, and Section 504 of the Rehabilitation Act of 1973. As such, you may be entitled to certain accommodations within this class. If you are diagnosed with a disability, please meet with Student Disability Services (SDS), 209 Alumni Hall, ext. 2137. All students with the necessary supporting documentation will be provided appropriate accommodations as determined by the SDS Office. It is your responsibility to contact SDS and provide the teacher with your accommodation plan before a test.

Emergency Evacuation/Shelter-in-Place Procedures

In the event of an emergency evacuation (i.e. fire or other emergency), classes meeting in **Science 1** are directed to **reassemble at the Chase Gymnasium** so that all persons can be accounted for. Complete details of the College's emergency evacuation, shelter-in-place, and other emergency procedures can be found at http://www.oneonta.edu/security .

Course Expectations and Guidelines

I expect you to follow the guidelines for behavior below:

- Attend all classes and arrive punctually.
- If unavoidably late for a class, enter quietly and unobtrusively, and behave in other required ways to minimize distraction.
- Remain alert and attentive during lectures, discussions, and other class/lab activities.
- Avoid unnecessary conversation during lectures, discussions, and other class/lab activities.
- **Contribute to class experiences by asking relevant questions,** offering relevant examples or views, adequately answering questions posed by others, **engaging in critical and independent thought, and challenging both the instructor and the curriculum materials assigned for the course**.
- Demonstrate courtesy and respect in dealing with instructors and classmates.
- Recognize and seek to understand diverse points-of-view.
- Plan to spend 2 to 3 hours out-of-class time in academic study for every one hour of class attendance.
- Thoroughly plan and prepare for classes.
- Notify the instructor in advance, if possible, or in a timely fashion, if unable to attend a class or lab, take a scheduled exam or quiz, submit a scheduled assignment, or remain in the classroom for the entire class meeting because of unavoidable circumstances.
- You are expected to read each chapter before we cover it in class. This will allow you to formulate questions concerning material that is not clear, or that you would like to have covered in greater detail. I use lectures to focus on the most important aspects of the topic. I strongly encourage you to ask questions during lecture. There are no 'dumb' or 'stupid' questions. Often the questions you have are shared by others. You should view lectures as the time and place for discussion, and I welcome your thoughts and questions!
- Any reasonable accommodation will be provided for students with physical, sensory, learning, or psychiatric disabilities. Please contact me for assistance as early as possible.
- If English is not your primary language and you would like to have additional time in which to take the exams, let me know. Anyone who needs additional time for the exams will be extended the same courtesy.
- Academic dishonesty will not be tolerated and those engaging in it will be prosecuted. See the Academic Honesty & Dishonesty pamphlet published by the Dean of Students Office for further information.
- **Finally, turn off cell phones before coming to class!** A ringing (or singing!) phone is almost impossible for others to ignore. Especially the lecturer, who may wander so far off course that everyone will get upset...Of course, medical conditions can override this request.