

EaES 111 | Earth, Energy, and the Environment

Spring 2017 | MWF 11-11:50 a.m., Lecture - LCB B101, Lab - SELE 1101

ABOUT THIS COURSE:

Course Overview: The goal of this course is to introduce you to fundamental concepts explaining how Earth formed and how it functions. We will learn about geologic building blocks from small scales (minerals and rocks) to large scales (tectonic plates) and about features we see and experience such as volcanoes and earthquakes. Moreover, natural resources such as petroleum, metals, and water exist because of the processes that shape the Earth. We will investigate these processes using basic principles of physics and chemistry. The contemporary nature of geologic events and features will be highlighted as newsworthy items unfold. The course consists of lectures and laboratories. A required, all-day field trip is scheduled for Saturday, April 8.

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Teaching Assistants (TAs):

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You can find more specific contact information and office hours on our course Blackboard site.

WHAT COURSE MATERIALS ARE NEEDED?

Blackboard (Bb): Class information, including key announcements, lecture materials, assignments, and grades will be available on Blackboard (<http://blackboard.uic.edu>). In order to succeed in this course it is critical for you to familiarize yourself with our Bb site. You are responsible for knowing about any announcement made through Bb.

Required Class Textbook: *Earth, Portrait of a Planet* by Stephen Marshak. Either the 3rd or 4th edition is sufficient. There are also e-textbook options available for a lower cost. <http://books.wwnorton.com/>
Additionally, a few copies of the textbook are available at the Reserve desk in Daley Library for checkout.

iClicker: An iClicker is required for this course. In order to earn participation points you must bring your iClicker with you to every lecture. Either an iClicker 1, 2, or mobile is acceptable.

Lab Manual: "Laboratory Manual 111" by the EaES Faculty and Staff is provided as part of your lab fee and will be distributed in the first week's lab section.

HOW WILL YOU BE GRADED IN THIS COURSE?

Exams: There will be 3 required exams. Each exam will roughly cover 1/3 of the class and will be non-cumulative.

Participation via iClickers: Everyday of lecture you can earn participation points by bringing in your iClicker and responding to multiple-choice questions that are given throughout lecture.

Labs: You must attend and complete all laboratory assignments. A passing grade in the lab (combined PreLabs, Lab Exercises, and Lab Exam) is needed to receive a passing grade in the class. It will be necessary to prepare for lab by reading the assigned lab chapter. Some labs may require work to be done before and after your course. Bring your lab manual to each session. Any concerns you have about lab, should be addressed with your TA.

PreLab Assignments - All labs will have a short ~10 question prelab assignment administered via Blackboard that will be due at midnight the day prior to your lab time. For example, if you have lab on Tuesday, your pre-lab assignment will be due Monday at midnight.

Lab Exercises - All labs will require you to submit an exercise of your work, which is due at the start of the lab period the following week. *Late Labs* – A lab turned in after the start of class is considered late, resulting in 10% off. Each subsequent day your lab is late will result in an additional 10% off per day, with a maximum late score of 50% off. Late labs will not be accepted after 1 week from its original due date.

Missed Labs

Making up a Lab - All lab sections are full, making it extremely difficult to do a make-up lab. If you know that you will be absent for a lab period, contact your TA prior to or within 24 hours to see if accommodations can be made for a make-up lab. All students are allowed one dropped lab, so that if you are not able to do a make-up lab it will not impact your grade.

Turning in your Previous Lab - You are responsible for contacting your TA as soon as possible to arrange turning in your previous week's laboratory exercise. Many students opt to email a scanned copy of their lab to their TA.

Field Trip - There will be an all-day field trip on Saturday, April 9. The field trip is required and will factor in as the equivalent of 2 lab grades and *cannot be dropped*. You will not receive a grade in the course unless you take the field trip.

Review Assignments: Each week a review assignment will be assigned through Blackboard to help reinforce your understanding of the concepts presented in lecture and lab. Assignments are *due each week by Sunday at midnight*.

Blackboard Policies for PreLab or Review Assignments: My goal for you is to master and understand our course material. *After submitting your first attempt on an assignment, I encourage you to re-attempt the entire assignment up to 2 additional times.* Your overall score for the assignment will be the average score of your submitted assignments. *LATE assignments will NOT be accepted.* If there are extenuating circumstances, please email Prof. Sit, so that appropriate accommodations can be made.

Dropped Scores: I understand that sometimes things come up (jury duty, illness, etc.) to prevent you from completing assignments on time or coming to class. At the end of the semester before calculating your final grade, I will drop your lowest lab, review assignment, prelab assignment, and 3 lowest iClicker scores.

Grading:

Exams: Each 15%, Total 45%
Review Assignments: 20%
PreLab: 5%
Lab Exercises: 20%
Lab Exam: 5%
Participation/iClicker: 5%

Grading Scale:

A 90 - 100
B 80 - 89
C 70 - 79
D 60 - 69
F Below 60

OTHER ASSISTANCE:

Contact Us via Email: Please feel free to contact us via email with questions or concerns you may have about our course. It is important to send emails from your UIC account and include EaES 111 in the subject line so that your email does not end up in our spam folders. Additionally, please sign your email with your full first and last name. We will do our best to respond to your emails within 48 hours.

Disabilities: If you have specific disabilities that require special aids or accommodations, please let Prof. Sit know by Fri, Jan. 20 so that your learning needs may be met appropriately. You will need to provide documentation of your disability to the Office of Disability Services: 1200 W. Harrison St. Room 1190 SSB (MC321), Phone (312) 413-2183, TTY (312) 413-0123, Fax (312) 413-7781

Religious Holidays: Notify Prof. Sit ASAP or by Fri, Jan. 20 of the semester if you observe a religious holiday that causes you to be absent from a required class event.

Academic Integrity: Academic dishonesty will not be tolerated. For all course work, you must adhere to the guidelines regarding academic integrity as described in the UIC Student Handbook and the UIC web pages. You are encouraged to work with others on assignments and help your fellow classmates, but in the end you are responsible for your own work and for insuring you understand the material at hand. Even if work is performed in a group setting, such as lab, it is expected that you will write your own conclusions and interpretations using your own wording. Any student caught and proven to have committed an act of academic dishonesty in this class will receive a zero for the particular item with a possibility of failing the course. In some situations academic dishonesty may result in a recommendation to your college for dismissal from the University.

Problems: Please bring any problems to the attention of Prof. Sit or your Teaching Assistant as soon as possible! We will deal with the situation in a timely manner. *If you have a valid excuse for missing an event or deadline, you must discuss your reasons with Prof. Sit or your Teaching Assistant in advance or within 24 hours afterward.*

Week	Dates	Topic	Text (Marshak 4 th edition)	Lab
1	9-Jan 11-Jan 13-Jan	Class Logistics A Brief Travel through Time & Space Solar System	Ch 1	Science Primer
2	16-Jan 28-Jan 20-Jan	MLK Jr Day - No School Earth's Place in Space Intro Plate Tectonics - Continental Drift	Ch 2 Ch 3	Physical Earth
3	23-Jan 25-Jan 27-Jan	Plate Tectonics Plate Tectonics Plate Tectonic Examples	Ch 4, Ch 4 Ch 4	Plate Tectonics
4	30-Jan 1-Feb 3-Feb	Minerals Minerals Minerals Resources	Ch 5 Ch 5 Ch 15	Minerals
5	6-Feb 8-Feb 10-Feb	Mineral Resources Intro to Rocks EXAM 1 (Through Mineral Resources)	Ch 15 Interlude A	Thin Sections
6	13-Feb 15-Feb 17-Feb	Igneous Rocks Igneous Rocks Sedimentary Rocks	Ch 6 Ch 6 Ch 7	Classifying Rocks
7	20-Feb 22-Feb 24-Feb	Sedimentary Rocks Sedimentary Environments Metamorphic Rocks	Ch 7 Ch 7 Ch 8	Interpreting the History of Rocks
8	27-Feb 1-Mar 3-Mar	Geologic Time Geologic Time Geologic Time	Ch 12 Ch 12 Ch 12	Radioactivity Mineral Quiz
9	6-Mar 8-Mar 10-Mar	Intro Mountain Building Mountain Building Mountain Building	Ch 11 Ch 11 Ch 11	Geologic Maps Parts A-C
10	13-Mar 15-Mar 17-Mar	Mountain Building Mountain Building and Mini Rock Review EXAM 2 (through Mountain Building)	Ch 11 Ch 11	Geologic Maps Parts D-H Rock Quiz
	Mar 19-25	Spring Break – No School		
11	27-Mar 29-Mar 31-Mar	Earthquakes Earthquakes Earthquakes	Ch 10 Ch 10 Ch 10	Earthquakes
12	3-Apr 5-Apr 7-Apr	Volcanoes Volcanoes Volcanoes	Ch 9 Ch 9 Ch 9	
	8-Apr	FIELD TRIP to LaSalle County		Field Trip
13	10-Apr 12-Apr 14-Apr	Groundwater Groundwater Groundwater	Ch 19 Ch 19 Ch 19	Discussion of Field Trip
14	17-Apr 19-Apr 21-Apr	Energy Resources Energy Resources Energy Resources	Ch 14 Ch 14 Ch 14	Groundwater
15	24-Apr 26-Apr 28-Apr	Renewable Energy Resources Energy Debates Energy Debates	Ch 14 Ch 14 Ch 14	Lab Exam
16	May 2-7	EXAM 3 (through Energy Debates)		

