

## Syllabus for Section #23166 Spring 2010

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**Text: Essentials of Geology, Tenth Edition by Frederick K. Lutgens; Edward J. Tarbuck  
CD/GEODE is required and comes with the book.**

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Your syllabus contains weekly due dates and chapter reading assignments. Most classes meet twice a week, you are given two assignments per week. It also contains links to Lecture Slides/Notes for you to review in either pdf format or html format. You are responsible for both the chapters assigned and for the information on the lecture slides. Whenever possible, a review sheet will be supplied prior to Exams. Note: the Lecture Slides/Notes (**LN**) say "geology 110 on the opening slide. The slides are for geology 10 and 110. Participation in the class forums is worth 10% of your final grade.

Students with disabilities, including learning disabilities, should contact me as soon as possible to discuss accommodating any special needs. Email [geology10@gomyclass.com](mailto:geology10@gomyclass.com)

Week	Date	Topic	Chapter	Read Pages
1	1/20	Begin Moodle tasks, <a href="http://gomyclass.com/moodle">http://gomyclass.com/moodle</a> Email instructor, math review, and join the forum. Review: <a href="#">Introduction (html)</a> , or <a href="#">Introduction [pdf]</a>	1	1-6, 9-16, 21-31
	1/25	<b>Mandatory Orientation online</b> , visit: <a href="http://gomyclass.com/orientation.html">http://gomyclass.com/orientation.html</a> for information about logging into the orientation  Minerals: Atomic Structure and Physical Properties, ( <b>Assignment #1</b> is the math review you will have 1 hour to answer the questions once you begin) See <a href="#">Moodle</a> to find the math review. Review: <a href="#">Minerals (html)</a> , or <a href="#">Minerals [pdf]</a>	2	34-57
2	1/27	Minerals: Atomic Structure and Physical Properties, GEODE quiz 2 (see Moodle weekly outline for turning in GEODE quizzes)	2	34-57
	1/31	Rocks: Introduction, Rock Cycle, Review: <a href="#">Rock Cycle (html)</a> , or <a href="#">Rock Cycle [pdf]</a> <b>(KTE #1 is due )</b> See <a href="#">how to do them</a> , See Samples You will have until midnight to turn it in at the drop box on Moodle	1	17-19, LN
3	2/3	Rocks: Igneous Rock Processes, GEODE quiz 1 is due 2/4, <b>Quiz #1</b> closes at midnight 2/4. You will have had at least 48 hours to access quiz #1 and 30 minutes to take the	3-4	58-111

		quiz once you click on it. (See Moodle "Activities" "Quizzes" to find the quiz.)		
	2/9	<b>(Assignment #2)</b> This assignment will be made available to you today. <i>Assignments 2, 3, and 4 are combined and all due at the same time on 3/1. Answers to this assignment are recorded on an answer sheet provided for you within Moodle.</i> <a href="#">Rocks: Igneous (html)</a> , <a href="#">Rocks Igneous [pdf]</a> <a href="#">REVIEW SHEET for EXAM 1 [pdf]</a>		
4	2/10	Rocks: Igneous Rock Classification and Formation <a href="#">Rocks: Igneous (html)</a> , <a href="#">Rocks Igneous [pdf]</a> <a href="#">REVIEW SHEET for EXAM 1 [pdf]</a> Review for Exam 1 GEODe quiz 3	3-4	58-111, LN
	2/16	<b>Exam #1 will close at midnight</b> , You will have had 48 hours to access exam #1. See Moodle- Exams	—	—
5	2/17	Rocks: Sedimentary Rock Classification, <a href="#">(You should be working on Assignment #3)</a> <a href="#">Rocks: Sedimentary (html)</a> , <a href="#">Rock: Sedimentary [pdf]</a> <b>(KTE #2 is Due )</b>	5 6	118 136-161
	2/23	Rocks: Sedimentary Rock Classification <b>Quiz #2 closes.</b> (see Moodle "Quizzes").	6	136-161
6	2/24	Rocks: Sedimentary Rocks Formation GEODe quiz 6	6	136-181
	3/1	Rocks: Metamorphic Rock Processes <a href="#">Rocks: Metamorphic (html)</a> , <a href="#">Rocks: Metamorphic [pdf]</a> <a href="#">(you should be working on assignment #4)</a> <b>(KTE #3 is Due today)</b>	7	162-181
7	3/3	(see Moodle) <b>Assignment 2-4 is due</b> at Moodle use the online answer sheet GEODe quiz 7		
	3/9	<b>Quiz #3 closes at midnight 3/9</b> (see Moodle) Geologic Time Scale <a href="#">Geologic Time/Dating Rocks (html)</a> , <a href="#">Rocks [pdf]</a> <a href="#">Review Sheet for Exam 2 [pdf]</a>	18	6-8, 416-441
8	3/10	Dating Rocks <a href="#">Geologic Time/Dating Rocks (html)</a> , <a href="#">Rocks [pdf]</a>	18	416-441

	3/16	<b>Exam #2 closes</b> (see Moodle) Earth's Interior: Seismic Waves ( <b>KTE #4 due today</b> ) ( <a href="#">Assignment #5-7</a> ) <a href="#">html</a> is available now due 4/15)		
9	3/17	Earth's Interior: Seismic Waves GEODe quiz 18	14	324-327,
	3/23	Earth's Interior: Convection <a href="#">Earth's Interior: Convection (html)</a> , <a href="#">Earth's Interior: Convection [pdf]</a> <b>Quiz #4</b> , (see Moodle)	14	327-331, 366-368
10	3/24	Rock Deformation: Folding, <a href="#">Rock Deformation: Folding (html)</a> <a href="#">Rock Deformation: Folding [pdf]</a> <a href="#">Strike and Dip [pdf]</a> <a href="#">Useful 3D Interactive Strike and Dip Visualization</a>	17	394-400, LN
	3/30	Rock Deformation: Faults <a href="#">Rock Deformation: Faults (html)</a> <a href="#">Rock Deformation: Faults [pdf]</a> <a href="#">Faults [pdf]</a> <a href="#">Visualization of Folds [pdf]</a> (You should be working on assignment 6) <b>(KTE #5 is Due today)</b>	17	400-403, LN
11	3/31	Spring Break		
12	4/7	Rock Deformation: Tectonic and Surface Relief, <a href="#">Tectonics and Surface Relief</a> <a href="#">html</a> <a href="#">REVIEW SHEET EXAM 3</a> GEODe quiz 18	17	404-415, LN
	4/13	Rock Deformation: Earthquakes <a href="#">Earthquakes (html)</a> <a href="#">Faults [pdf]</a> (You should be completing assignment #7) GEODe quiz 14 <b>Exam #3 (see Moodle)</b>	14	318-341
13	4/15	<b>Quiz #5 closes, (Assignment 5-7 Due today answers recorded on the form within Moodle) (Assignment #8-10)</b> . Assignments 8,9, and 10 are combined and all due 5/11. Answers to this assignment are recorded on an answer sheet provided for you within Moodle. <a href="#">HTML version</a> <a href="#">PDF</a> <a href="#">Word Doc</a>		

	4/20	Tectonic Plate Motion and Boundaries, <a href="#">Tectonic Plate Motion (html)</a> , <a href="#">Tectonic Plate Motion [pdf]</a> , <b>(KTE #6 is Due today)</b> <a href="#">Plate Tectonics: Volcanic Activity (html)</a> , <a href="#">Plate Tectonics: Volcanic Activity [pdf]</a> GEODE quiz 15	15	342-371
14	4/21	Soil: Depositional Environments <a href="#">Soil [pdf]</a> GEODE quiz 5	5	112-135
	4/27	Mass Movement <a href="#">Mass Movement (html)</a> , <a href="#">Mass Movement [pdf]</a> GEODE quiz 8	8	182-195
15	4/28	. <b>Quiz #6</b> closes on Moodle		
	5/4	Streams, <a href="#">Review for Exam 4 [pdf]</a> <a href="#">Streams pdf</a> GEODE quiz 9	9	198-221
16	5/5	<b>Exam #4</b> (see Moodle) <b>(KTE #7 is Due today)</b>	----	----
	5/7	Underground Water <a href="#">Underground Water [pdf]</a> (You should be completing assignment 9) GEODE quiz 10, <b>Quiz #7 closes 5/10</b>	10	222-243
	5/11	Glaciers <a href="#">Glacier [pdf]</a> GEODE quiz 11 <b>Assignment 8-10 due today</b>	11	244-269
17	5/12	Wind: Aeolian Processes, GEODE quiz 12	12	270-289
	5/18	Shorelines, <a href="#">Beaches [pdf]</a> <a href="#">Power Point</a> GEODE quiz 13	13	290-317
17	5/22-5/28	<b>FINAL EXAMINATION (TBA) ON CAMPUS EXAM ONLY</b> bring one Scantron Form 886E, available at the bookstore on campus, building "F" (same as the cafeteria) for about 40 cents. You will also need a pencil. <b>NO books or notes.</b> <a href="#">Campus map</a> (time TBA)		

**GRADING: FINAL GRADES WILL BE DETERMINED AS FOLLOWS**

Participation and Field Trips	10%
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Assignments (10)	10%
Key Term Exploration (KTE-8)	10%
Quizzes (6/7)	20%
Exams (4)	40%
Final Examination	10%
<b>TOTAL</b>	<b>100%</b>

<b>A</b>	90-100%
<b>B</b>	80-89%
<b>C</b>	70-79%
<b>D</b>	60-69%
<b>F</b>	0-59%

**STUDENT LEARNING OBJECTIVES FOR THIS COURSE:**

At the end of this course you should be able to:

- Understand the principle of Uniformitarianism and be able to explain it.
- Define the three rock families and those minerals which constitute them in order to evaluate how their composition relates to earth processes

- Recognize the components of the rock record and formulate an interpretation.
- Describe and evaluate the cause and effect relationship between fundamental geologic processes and the resultant geologic features.
- Explain the formation of geologic hazards and natural resources and describe the interaction between humans with the geologic environment.

### **LATE WORK / MAKEUP WORK:**

There will be no make ups for assignments, missed quizzes or exams unless prior arrangements have been made. Late assignments will be worth 50% and accepted until one week after their due date.

### **FRAUD [LEARN WHAT PLAGIARISM IS AND ITS PENALTY](#)**

Academic fraud will not be tolerated. Any student caught cheating, including copying and pasting from outside sources may be dropped from the course. Per District Policies and Procedures: Disciplinary action may be imposed on a student for violation of the college rules and regulations, the California Education Code, California Penal Code, and California Administrative Code. Student misconduct may result in disciplinary action by the college and prosecution by civil authorities. Misconduct that may result in disciplinary action includes, but is not limited to, the following violations:

#7. Dishonesty such as cheating, plagiarism (including plagiarism in student publications), forgery, alteration or misuse of college documents, records, or identification documents, or furnishing false information. **THIS INCLUDES the use of cut and paste from the internet or any source without the use of quotation marks and citing your source.**

**Programs and Services for Students with Disabilities (DSPS):** If you have or suspect you may have learning or other disabilities, please contact the DSPS:  
<http://alameda.peralta.edu/apps/comm.asp?§1=20084> Programs and Services for Students with Disabilities (DSPS) College of Alameda 555 Ralph Appezato Memorial Parkway Alameda, CA. 94501  
Voice: 510-748-2328 TDD: 510-748-2330 FAX: 510-748-2339