# Geology 150 – Earth Revealed

 **Winter Quarter 2014** (14720, SEC 09) **Instructor**: Sonjia Leyva

 **Hours**: MW 9:50 – 11:05 am  **Office:** Bios 125, 323-343-2149

 **Room**: SH C260  **Office Hours:** MW 9:15 – 9:30 am

 **Email:** sleyva@calstatela.edu

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| Course Description: Geology 150 is an introductory geology course designed to provide students with the knowledge of some of the basic fundamentals and concepts of geology, familiarize you with scientific methods and terminology, and provide a basic understanding of how the earth works. Whatever profession or vocation you choose, as a citizen and a voter you will have to make decisions concerning problems either directly or indirectly related to the earth sciences. This lecture class is the first portion of the Geology 150 Earth Revealed class. Students MUST enroll in the laboratory portion of this class. YOUR LAB GRADE IS WORTH ONE QUARTER (25%) AND YOUR LECTURE GRADE IS WORTH THREE QUARTERS (75%) OF YOUR OVERALL GENERAL GEOLOGY GRADE. Lecture 3 hours, Laboratory 3 Hours. Fulfills 4 units in the B2 Block of the GE Requirements  |
| Course Objectives: Upon successful completion of this course, the student will be able to:* Identify major rock types and minerals
* Understand and explain theory of plate tectonics.
* Understand and identify natural hazards such as earthquakes, volcanoes, mass wasting, etc.
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| REQUIRED Text & Materials: * Essentials of Geology 4/e by Stephen Marshak
* Norton’s website for online assignments
	+ StudySpace (<http://wwnorton.com/college/geo/essgeo4/welcome.aspx>)
		- Follow the Study Plan BEFORE heading to the SMARTWORK site.
	+ SMARTWORK ([http://smartwork.wwnorton.com](http://smartwork.wwnorton.com/))
		- A valid email address
		- The enrollment key for your course: ESSGEO4E5682.
		- A registration code from W.W. Norton (purchased with your textbook)
* Lecture Notes by Sonjia Leyva, available at the bookstore or on Moodle
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| **Cheating and plagiarizing will not be tolerated.** |  | **ANYONE caught cheating or plagiarizing an assignment will receive an “F” in the class. NO EXCEPTIONS.** |

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# Schedule

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| **Week** | **Chapter** |  | **Topic** | **On-Line Activities** | **Dates Available**  |
| 1 | 1 & 2 | 6-Jan |  Introduction | #1 | 1/6 | - | 1/12 |
| 8-Jan | Plate Tectonics |
| 2 | 2 | 13-Jan | Plate Tectonics | #2 | 1/13 | - | 1/19 |
| 15-Jan | Plate Tectonics |
| 3 | 3 | 20-Jan | MLK Day - Campus Closed! | #3 | 1/20 | - | 1/26 |
| 22-Jan | Minerals |
| 4 | 3, 4 & 5 | 27-Jan | Minerals | #4 | 1/27 | - | 2/2 |
| 29-Jan | Igneous Rocks and Environments |
| 5 | 4 & 5 | 3-Feb | Igneous Rocks and Environments | #5 | 2/3 | - | 2/9 |
| **5-Feb** | **MIDTERM EXAM** |
| 6 | 6 | 10-Feb | Sedimentary Rocks and Environments |  #6 | 2/10 | - | 2/16 |
| 12-Feb | Sedimentary Rocks and Environments |
| 7 | 7 | 17-Feb | Metamorphic Rocks and Environments | #7 | 2/17 | - | 2/23 |
| 19-Feb | Metamorphic Rocks and Environments(Last day to turn in extra credit EQ kits) |
| 8 | 8 | 24-Feb | Earthquakes | #8 | 2/24 | - | 3/2 |
| 26-Feb | Earthquakes |
| 9 | 10 | 3-Mar | Geologic Time | #9 | 3/3 | - | 3/9 |
| 5-Mar | Geologic Time |
| 10 | 13 | 10-Mar | Mass Wasting | #10 | 3/10 | - | 3/16 |
| 12-Mar | Mass Wasting (Last day to turn in extra credit) |
| 11 |  | **19-Mar** | **FINAL EXAM - 8:00 a.m. - 10:30 a.m.** |

# Methods Of Evaluation

Total possible class points will come from the following assignments:

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|  | **Points possible** | **Total Points Possible** | **% of grade** |
| **Exams** | 2 exams at 100 points each | 200 | 50.0% |
| **Quizzes** | 10 @ 10 points each | 100 | 25.0% |
| **Lab Grade** | 100 points total | 100 | 25.0% |
|  | **Total** | **400** | **100%** |
| Your grade in this class is based upon the points YOU earn through completing assignments, quizzes, assignments, and exams. Nothing in this class is curved. Your grade is based upon your performance. Your final grade in this class is based on your percentage score out of 400 points.  | A = > 90% |  > 360.0 points |
| B = 80 - 89% | 320.0 - 359.9 points |
| C = 70 - 79%  | 280.0 - 319.9 points |
| D = 60 - 69% | 240.0 - 279.9 points |
| F = < 60% |  < 300.0 points |
| You may do up to 20 points of extra credit work to raise your total points earned. **All extra credit is due the last day of class – not the day of the final**. By doing extra credit you agree that you will NOT ask to have your grade “bumped up” at the end of the quarter.  |  |  |

# Requirements

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| **Exams -** There will be two exams - one midterm and one final. Make‑up exams will be given only to those who can verify a valid excuse for missing an exam. The make‑up will be given at a time that is mutually agreeable to both the student and myself, but must be arranged prior to the initial exam. **Failure to take the make‑up exam within two weeks of the original exam date will result in the missed exam counting in as a zero.** In addition, the exam question sheet must be returned to me after the exam and after the exam review. Failure to do so will result in a ten (10) ‑point reduction in the student's grade for that exam. |
| **Quizzes & Assignments –** Students are required to log onto Norton’s SMARTWORKS [http://smartwork.wwnorton.com](http://smartwork.wwnorton.com/)  to complete weekly quizzes. Each quiz will be worth 10 points and will cover what we have learned (or will learn) in class that week. Students may access the quizzes anytime from 8 am Monday through 11:59 pm Sunday. Students may take the quiz only once. **Students who do not take the quiz during the allowed time will not be allowed to make up the quiz unless they have an excused absence. No exceptions!**  |
| **Internet Access** - Internet access is required for this class because all of the course content will be posted on the class website or on Norton’s SMARTWORKS website. Once there you will be able to access quizzes and other course content. Access at home or work is fine as long as you can view the web pages regularly and have a reasonably fast connection.**Attendance** - Students are expected to attend each class session and to arrive on time. It will be difficult to make up missed class sessions. However, if you miss a class session of valid reasons (illness), it will up to you to make arrangements to complete the activity. **Students who miss a class due to an unexcused absence will NOT be allowed to make up the work.** Make-up assignments will be given only to those who can verify a valid excuse for missing the assignment. The make-up assignment will be given at a time that is mutually agreeable to both the student and me. **Failure to take the make-up assignment within one week of the original assignment date OR before the last week of class will result in the missed exam//assignment counting in as a zero. All proof of excused absences MUST be shown PRIOR to the student making up the assignment/exam, and MUST be BEFORE the last day of class.** Students may be dismissed for 10 hours of absence. If you drop the class you must do so officially or you may receive an “F”. |

Want to get a good grade? Here’s how:

1. Attend every class.
2. Take notes and review them after class and before exams.
3. Read your textbook / do the assignments
4. Turn in all work on time
5. Ask questions.
6. **You are responsible for studying.**

# Important Policies (a.k.a. the “fine print”)

**Statement of Reasonable Accommodation**:

* The Department of Geological Sciences faculty members fully support the Americans with Disabilities Act (ADA). The members of the faculty will provide reasonable accommodation to any student with a disability who is registered with the Office of Students with Disabilities (OSD) who needs and requests accommodation. The faculty may wish to contact the OSD to verify the presence of a disability and confirm that accommodation is necessary. The OSD will arrange and provide for the accommodation.
* Reasonable accommodation may involve allowing a student to use an interpreter, note taker, or reader; accommodation may be needed during class sessions and for administration of examinations. The intent of the ADA in requiring consideration of reasonable accommodation is not to give a particular student an unfair advantage over other students, but simply to allow a student with disability to have an equal opportunity to be successful.

**Student Conduct**:

* Student conduct is viewed as a serious matter by the faculty members of the Department of Geological Sciences. The Department faculty members assume that all students will conduct themselves as mature citizens of the campus community and will conduct themselves in a manner congruent with university policies and regulations. Inappropriate conduct is subject to discipline as provided for in Title 5, California Code of Regulations (see student conduct: rights and responsibilities, and student discipline, CSULA General Catalog). Academic honesty is expected of all students in the Department, in accordance with University policy. There are established university reporting procedures if a student is suspected of committing an academically dishonest act.
* The University has a clearly defined policy on Academic Honesty. This policy will be enforced in this class. **Cheating and plagiarizing will not be tolerated.** Students caught plagiarizing and/or cheating will be subject to the consequences and set forth in the University Catalog, Appendix D - Academic Honesty. You can access it online at: <http://catalog.calstatela.edu>
* **Cheating and plagiarizing will not be tolerated.**

**Make-up exams:**

* Make-up exams will be given only to those who can verify a valid excuse for missing a quiz. The make-up will given at a time that is mutually agreeable to both the student and myself. **Failure to take the make-up exam within two weeks of the original exam date will result in the missed exam counting in as a zero.**

**Grading:**

* University policy allows a grade of incomplete to be given only to those who have been sick, injured, or have a similar valid excuse. A grade of “incomplete” will not be given after poor performance in the course.
* If you are repeating any Cal State L.A. course in order to remove a D or an F from your transcript, you must file an **academic renewal petition** in Administration 101 no later than the last day to add a class. Instructions for doing this may be found under **"Academic Renewal"** in your Schedule of Classes.
* University policy requires that all students shall be graded in *exactly* the same fashion. What does this mean? You may not ask for extra assignments or to repeat an exam to improve your grade, or additional assignments after the course is completed.

**Avoid the hassles.**Take the Writing Proficiency Examination (WPE) after you have completed your English Composition and prior to the completion of 135 units in order to avoid a registration hold. The dates for the WPE are published in the Schedule of Classes. Enroll by registering in UNIV 400 and paying the $15 exam fee. Do it now!!!

# Extra Credit

You have the opportunity to earn extra credit in any of my classes if you wish. All work, with the exception of the earthquake kit, must be turned in by the end of the class period before the final exam. You may earn up to 20 points of extra credit by doing any combination of the following assignments listed below.

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| 1. *(5 points)* In essay format, discuss three ways that you can help clean up the oceans or coasts.
	1. **The ONLY item at the top of your paper should be your name.**
	2. Paper should be 1 to 2 pages, typed, 1.5 spacing, standard margins and fonts and concise.
	3. The quality of your English composition is important. Don't forget to use correct essay form - Intro paragraph with thesis statement, three examples, and conclusion paragraph.
	4. Please remember that I am concerned about the environment. **I do not want plastic covers, extra cover pages, or any other type of binder.**Save paper and you save trees. Save plastic and you save petroleum.
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| 1. *(15 points)* Find 3 articles that deal with geological issues and write a summary of each article. Combine the 3 summaries into a paper that is no more than 2 pages long. Articles may be found in the Los Angeles Times, Discover Magazine, Newsweek, Time Magazine, California Geology (in the Library), etc. Provide your opinion or analysis.
2. **The ONLY item at the top of your paper should be your name.**
3. Paper should be 1 to 2 pages, typed, 1.5 spacing, standard margins and fonts and concise.
4. The quality of your English composition is important. Don't forget to use correct essay form - Intro paragraph with thesis statement, three examples, and conclusion paragraph.
5. A bibliography and copies of your articles are required as well.
6. Please remember that I am concerned about the environment. **I do not want plastic covers, extra cover pages, or any other type of binder.**Save paper and you save trees. Save plastic and you save petroleum
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| 1. *(10 points)* Do one of the **Virtual Classware assignments** located at[**http://www.sciencecourseware.com/**](http://www.sciencecourseware.com/). Click on either "[**Virtual Courseware for Earth and Environmental Sciences**](http://www.sciencecourseware.com/eecindex.php)" or "[**Geology Labs Online**](http://www.sciencecourseware.com/GLOL/)" and choose one of the activities listed below. Upon completion of the assignment, you will be awarded a certificate that you will need to print out and turn in.
	1. You may do more than one of the exercises, but they must be two DIFFERENT activities.
		* Virtual Earthquake, Virtual river (River Discharge), Virtual river (River Flooding), Virtual Seismologist, Virtual Radiochronologist (isochron), Virtual Radiochronologist (radiocarbon) or Virtual Climatologist
	2. Your name MUST be on the certificate. No exceptions.
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| 1. *(15 points)* Create an earthquake/disaster kit for your [**car**](http://www.geophile.net/College/webpages/carEQkit.pdf) (or [**workplace**](http://www.geophile.net/College/webpages/workEQkit.pdf)). You must show me the completed kit and a list of the items inside. You must have EVERYTHING that is on the list - no exceptions!
	1. **YOU MUST INCLUDE THE LIST WITH YOUR KIT!** Here's a list ([**car**](http://www.geophile.net/College/webpages/carEQkit.pdf) or[**workplace**](http://www.geophile.net/College/webpages/workEQkit.pdf)) of required items.
	2. Bring the kit to my office during office hours BEFORE the date specified on your syllabus.
	3. **Hand-written lists are not acceptable.**
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| 1. (*1 point each*) Your textbook has an online site called StudySpace (<http://wwnorton.com/college/geo/essgeo4/welcome.aspx>). Each chapter has two features which will be useful to you in studying: “Chapter Quizzes” and “Science in Society Features”.
	1. **Quiz+:** At the end of the quiz, email the results to both me at sleyva@calstatela.edu and yourself.
	2. **Science & Society Features**: Read the featured article, then complete the “Concept Questions”. At the end of the quiz, email the results to both me at sleyva@calstatela.edu and yourself. *(1 point per chapter*)
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