

Geology 101 – Dynamics of Earth Laboratory - Syllabus
Section 2 Schedule # 14626: Monday 11:00 – 1340: GMCS 201

Instructor: Professor Gary H. Girty

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Office Hours: Open door policy: Come in anytime other than T/Th 11:00 – 12:15 and on Friday

Objective: Have you ever felt an earthquake? Have you read or heard about a volcano erupting? Have you heard or read about tsunami and mudslides? Earthquakes, erupting volcanoes, tsunami, and mudslides are all natural processes that occur daily on planet Earth. It is important that each citizen of our planet know about and understand how such processes operate at a basic level so that they can react in an educated manner when encountering such activity. It is our contention that if some of our citizens had known that large magnitude earthquakes can and often do produce tsunami then much death could have been avoided in the recent catastrophe affecting the Indian Ocean and surrounding regions. Hence, the goal or objective of this class is to insure that you have a basic understanding of the geology of our planet. Hopefully, you will never have to use that knowledge in a life threatening setting.

Required Text: Dynamics of the Earth – Geology 101 Laboratory Manual – available at Aztec Shops Bookstore – Bring this manual to every class. You will turn in your labs at the end of each class – extra copies *will not be* made available during lab. You are required to read the corresponding chapters for each lab at

www.geology.sdsu.edu/visualgeology/geology101.

See the schedule of labs and readings below.

Grading Policy: Your total graded will be based on 120 points. Each of the 12 required labs that you turn in that is complete will be awarded 5 points. In addition, you will take 12 quizzes with each quiz being worth 5 points. Your grade will be determined strictly on the basis of 100-90 = A, 80-90 = B, 70-80 = C, 60-70 = D, <60 = F.

*For example, [(total of lab points + total of quiz points)/120] * 100 = final score and final grade*

The last day to drop or add this class is February 11, 2005.

Schedule of Labs and Quizzes:

Week	Topic	Quizzes	Required Readings
(1) January 24 – January 28	Plate Tectonics		Chapter 1*
(2) January 31 – February 4	Minerals	Plate Tectonics	Chapter 2*
(3) February 7 – February 11	Igneous Rocks	Minerals	Chapter 3*
(4) February 14 – February 18	Sedimentary Rocks	Igneous Rks	Chapter 6*
(5) February 21 – February 25	Metamorphic Rocks	Sedimentary Rks	Chapter 7*
(6) February 28 – March 4	Geologic Time	Metamorphic Rks	Chapter 8*
(7) March 7 – March 11	Structure	Geo Time & Fossils	Chapter 10*
(8) March 14 – March 18	Topographic maps	Structure	Chapter 9*
(9) March 21 – March 25	Geo maps & sections	Topo Maps	
<i>March 28 – April 1 – Spring Break</i>			
(10) April 4 – April 8	Earthquakes	Maps & x-sects	Chapter 11*
(11) April 11 – April 15	Oceans	Earthquakes	Chapter 13*
(12) April 18 – April 22	Glaciers	Oceans	Chapter 12*
(13) April 25 – April 29		Glaciers	
*all readings refer to chapters at http://www.geology.sdsu.edu/visualgeology/geology101/			