

**GEOL 111 Section 1:  
Understanding the Earth Fall 2008**

<u>Date</u>	<u>Lecture Topic</u>	<u>Reading Assignment</u>
Aug 25	Introduction	p.1-17; 26-31
Aug 27	The Earth	p. 17-25
Aug 29	Geologic Time: Relative Age Dating	p. 247-258
<b>Sep 1</b>	<b>Labor Day Holiday</b>	
Sep 3	Geologic Time: Absolute Age Dating	p. 259-272
Sep 5	Geologic Time: Absolute Age Dating and the Geologic Time Scale	
	<b>Homework 1 Due: The Earth</b>	p. 259-272
Sep 8	Plate Tectonics and Continental Drift	p. 34-45; 53-64
Sep 10	Paleomagnetism and Plate Tectonics	p. 45-53; 64-74
Sep 12	Plate Tectonics	
	<b>Homework 2 Due: Age Dating</b>	p. 376-400
Sep 15	<b>Quiz #1.</b> Rocks and Minerals	p. 70-99
Sep 17	Mineral Structures	
Sep 19	Rock-Forming Minerals	
Sep 22	Igneous Rocks	p. 100-123
Sep 24	Volcanoes	p. 124-158
Sep 26	Igneous Intrusions	
Sep 29	Volcanic Hazards	p 159-163
Oct 1	<b>Quiz #2.</b> Volcanic Hazards Case Study: Hotspot Volcanism in Hawaii	
Oct 3	Yellowstone and the Snake River Plain, Idaho	
	Volcanic Hazards Case Study:	
Oct 6	Mt. St. Helens. Predicting Volcanic Eruptions	
<b>Oct 8</b>	<b>Exam 1</b>	
Oct 10	No Class	
Oct 13	Soil Formation. Sedimentary Rocks and Processes	p. 182-208; 210-234
Oct 15	Sedimentary Processes	p. 234-240
Oct 17	Sedimentary Environments: Grand Canyon Case Study	
Oct 20	Metamorphic Rocks and Processes	p. 242-265
Oct 22	Metamorphic Facies	p. 265-268
Oct 24	Case Study: Italian Marble Metamorphic Facies	

<u>Date</u>	<u>Lecture Topic</u>	<u>Reading Assignment</u>
Oct 27	<b>Quiz #3.</b> Rock Deformation: stress and strain	p. 300-324
Oct 29	Folds and Faults	
Oct 31	Earthquakes: Seismic Waves	p. 326-340; 360-372
Nov 3	Measuring Earthquakes	p. 340-358
Nov 5	Earthquake Hazards in Hawaii and Tsunami	
	<b>Homework 3 Due: Earthquakes</b>	
Nov 7	<b>Quiz #4.</b> Hydrologic System: Surface Water	p. 422-436
Nov 10	Rivers and streams	p. 436-447
Nov 12	Floods	p. 447-455
	Modifying Surface Water Systems	
Nov 14	<b>Homework 4 Due: Floods</b>	
Nov 17	<b>Exam 2</b>	
Nov 19	Groundwater	p. 456-467
Nov 21	Caves and Karst	p.468-481
Nov 24	Glaciers	p. 482-492
Nov 26	Glacial Features	p. 493-504
<b>Nov 28</b>	<b>Thanksgiving Holiday</b>	
Dec 1	Glaciations and Climate Change	p. 505-513
Dec 3	Climate Change	
Dec 5	<b>Quiz #5.</b> Energy Resources	p.622-636
Dec 8	Petroleum Reserves	p. 622-636
Dec 10	Alternate Energy Sources	p. 636-644
<b>Dec 15</b>	<b>Final Exam 9:40-11:40 AM</b>	