

**GEOL 100: Environmental Earth Science
Schedule Spring 2008**

<u>Date</u>	<u>Lecture Topic</u>	<u>Reading Assignment</u>
Jan 15	Introduction to the Earth, Origin of the Earth	p. 1-16; 33-40
Jan 17	Earth Systems, Population and Sustainability	p. 16-32; 40-60
Jan 22	Geologic Time	p. 63-88
Jan 24	Quiz #1. Minerals, Rocks, and The Rock Cycle	p. 91-101
Jan 29	Plate Tectonics and Rocks	p. 101-121
Jan 31	Earthquakes and Plate Boundaries <u>Current Events Report Due</u>	p. 146-154
Feb 5	Case Studies: Loma Prieta, CA and Kobe, Japan	
Feb 7	Case Studies: Indonesia, Hawaii, and the Pacific Northwest. Tsunami <u>EARTHQUAKES AND PLATE BOUNDARIES</u> <u>(EarthInquiry) Due</u>	
Feb 12	Quiz #2. Volcanic Hazards. Case Study: Cascade Mts. Washington and Oregon	p. 138-146
Feb 14	Volcanic Hazard Case Study: Hawaii <u>MONITORING AND MITIGATING VOLCANIC HAZARDS</u> <u>(EarthInquiry) Due</u>	
Feb 19	TEST #1	
Feb 21	Soil and Weathering Systems	p. 159-182
Feb 26	Mass Movements	p. 182-190
Feb 28	Water Resources <u>Current Events Report Due</u>	p. 193-206
Mar 4	Rivers, Floodplains and Floods	p.206-216
Mar 6	Quiz #3. Changes to the surface water system <u>RECURRENCE</u> <u>INTERVAL OF FLOODS (EarthInquiry) Due</u>	p. 216-231
Mar 11	Groundwater	p. 233-259
Mar 13	Surface and Groundwater Contamination	p. 245-259
Mar 18	The Atmosphere and Weather. <u>DRINKING WATER</u> <u>CONTAMINATION (EarthInquiry) Due</u>	p. 261-275
Mar 20	TEST #2	

<u>Date</u>	<u>Lecture Topic</u>	<u>Reading Assignment</u>
Mar 25/27	SPRING BREAK HOLIDAY	
Apr 1	Storms and Hurricanes. Atmospheric Pollution <u>Current Events Report Due</u>	p. 275-288
Apr 3	The Oceans	p. 291-300
Apr 8	Seawater Properties and Ocean Circulation	p. 300-312
Apr 10	Quiz #4. Coastal Erosion and Stabilization	p. 312-316
Apr 15	Energy Resources on the Earth, Oil and Gas <u>COASTAL HAZARDS (EarthInquiry) Due</u>	p. 327-345
Apr 17	Alternative Power Sources	p. 345-361
Apr 22	Nuclear Waste Disposal	
Apr 24	Ore Deposits and Mining Impact	p. 123-138
Apr 29	Quiz #5. Climate Change. <u>MINERAL USES AND CONSUMPTION (EarthInquiry) Due</u>	p. 363-372
May 1	Earth's Climate History	
May 6	Indicators of Environmental Change <u>Current Events Report Due</u> <u>LONG-TERM CLIMATE CHANGE (EarthInquiry) Due</u>	p. 372-411
May 13	Final Exam 11:50-1:50 PM	