

GEOL 334 Environmental Geology – T-Th 11:30 – 2:15 pm

Dr. Dave Kreamer – Office LFG 205

Office Hours T-Th 1-2 pm, or other times by appointment

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Recommended Text – Introduction to Environmental Geology, 5th Edition, Edward A. Keller

Hazard City – Initially use

<http://www2.gsu.edu/~geohab/Babaie/courses/geol2001/Hazard%20City%20application/Files/>

Grading-

Class Discussion preparedness/ performance – 15%

Homework – 15%

Midterm Exam – 25%

Term Paper and presentation – 15%

Final Exam – 30%

Learning outcomes / Educational Goals –

1. Increase comfort with the specialized language, challenges, interconnections, problem estimation methods, and solutions in the field of environmental geology.
2. Develop critical thinking.
3. Develop problem solving skills.
4. Practical Writing and Oral Presentation skills.
5. Show why it is a very, very cool field

Possible topics:

Population, Earthquakes, Impact of Extraterrestrial Objects, Mass Extinctions, Tsunamis, Water Supply, Water Pollution, Mineral Resources, Volcanoes, Landslides, Coastal Erosion, Flooding, Soils, Waste Management, Energy, Air Pollution, Climate change, Fire, Avalanches, Other topics?

Tentative Schedule – Subject to Change Depending on What Disasters Occur During the Semester!

Weekly Reading in	Topic	Highly Suggested, Supplementary
		<i>E.A. Keller, Introduction to Environmental Geology 5th Ed</i>
Aug. 29 - 31	Class Procedures, Relevance of Class	
Sept. 5 - 7	Fundamental Concepts, Population	Chapters 1, 5
Sept. 12 - 14	Review Internal Structure of Earth, Rocks	Chapters 2, 3
Sept. 19 - 21	Earthquakes, Climate Change	Chapter 6
Sept. 26 - 28	Climate Change	Chapter 18
Oct. 3 - 5	Avalanche, Mass Movement	Chapter 10
Oct. 10 - 12	Tsunami, Coastal Processes	Chapters 7, 11
Oct. 17	Energy	Chapters 15, 16
Oct. 19	Midterm Exam	
Oct. 21	Mid Term Semester grades due	
Oct. 24 - 26	Volcanoes	Chapter 8
Oct. 31 – Nov. 2	Flooding	Chapter 9
Nov. 7 - 9	Student Presentations	
Nov. 14 - 16	Student Presentations	
Nov. 19-	Term Papers Due – Electronic Submission in Word , Required Plagiarism check to be submitted, Title Page, Abstract less than 500 words, six pages text, add illustrations, proper referencing, list of references, short author biography.	
Nov. 21	Ecology and geology	Chapter 4
Nov. 23	No Classes Thanksgiving	
Nov. 28-30	Water Resources and Water Pollution	Chapters 13,14
Dec. 5-7	Impact of Extraterrestrial Objects	Chapter 12

Final Exam: Thursday, December 14, 10:10 am – 12:10 p.m –same room.

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<http://catalog.unlv.acalog.com/content.php?catoid=1&navoid=44&bc=1>

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