

9-2002

# GEOL 301.01: Environmental Geology

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## **Geology 301 - Environmental Geology**

### **Course Logistics**

**Professor:** Chris Brick (Office: SC 329, Office hours Tues & Thurs after class or by appointment - I will also usually be available between 9:30 and 11 on these days). I can be reached via e-mail at [brick@selway.umt.edu](mailto:brick@selway.umt.edu) or 243-5778. I am NOT on campus on Mon, Wed, or Fri, but I can be reached at 542-0539 or by e-mail.

**Textbook:** Edward A. Keller, 2000, *Environmental Geology*, 8th Ed., Prentice Hall, Inc. Suggested chapter readings are listed on the syllabus - the text provides useful background information for both lecture and lab.

**Grading:** Grades will be based on:

- |   |     |
|---|-----|
| <input type="checkbox"/> 2 midterm exams 15% each →       | 30% |
| <input type="checkbox"/> Final exam                       | 15% |
| <input type="checkbox"/> 5 lab assignments 6% each →      | 30% |
| <input type="checkbox"/> 1 lab project (flood prediction) | 10% |
| <input type="checkbox"/> Energy resources conference      | 10% |
| <input type="checkbox"/> General class participation      | 5%  |

All assignments must be turned in on time and should be prepared as professional documents using a word processor. Late work will lose points, and late labs will not be accepted after they have been returned to the rest of the class.

**Geology 301 - Environmental Geology**  
**Fall 2002 Schedule (tentative)**

Date	DESCRIPTION AND READINGS
9/3	Introduction and fundamental concepts (Chapter 1) (Look at Chapter 2 if you need to brush up on basic geology).
9/5	Lab 1: Population growth past and future.
9/10	Human interaction with geologic processes (Chapter 4 & 5)
9/12	Lab 2: Measuring discharge - be prepared to go outside rain or shine
9/17	Rivers and flooding (Chapter 5).
9/19	Lab 3: Flood prediction project - field trip to site - OUTSIDE
9/24	Rivers and flooding continued - guest speaker (Chapter 5).
9/26	Lab 3(cont.): Flood Prediction Project
10/1	Water Supply and Use (Chapter 10).
10/3	Water quality (Chapter 11).
10/8	Groundwater flow and contamination (Chapter 10 & 11).
10/10	Lab 4: Predicting groundwater transport of contaminants.
10/15	Groundwater flow and contamination in the Missoula Valley
10/17	1 <sup>st</sup> midterm exam
10/22	Waste management (Chapter 12):
10/24	Field trip to BFI landfill
10/29	Soils and Land Use Planning (Chapters 3 & 18)
10/31	Lab 5: Land-use planning
11/5	Election Day - No class
11/7	Guest speaker - Milltown reservoir (tentative)
11/12	Geologic Aspects of Human Health (Chapter 13).
11/14	Lab 6: Radon in Missoula groundwater
11/19	Mineral resources and environment (Chapter 14).
11/21	2 <sup>nd</sup> midterm exam
11/26	Mineral resources - continued
11/28	Thanksgiving - No class
12/3	Energy resources and environment (Chapter 15)
12/5	Energy resources conference
12/10	Earth system science and global climate change (Chapter 16).
12/12	Energy resources conference and energy policy debate

**FINAL EXAM - Final exam time is Thursday December 19<sup>th</sup> at 3:20-5:20 pm.**