

## Course Syllabus

### ENVE 683: Environmental Geotechnology (3 hrs)

**Term: Spring 2007**

**Instructor:** D. Scott Simonton, PE, PhD  
Associate Professor, Environmental Science  
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**Required Textbook:** Applied Hydrogeology, 4<sup>th</sup> Addition, C.W. Fetter 2001

**Suggested Textbooks:** Waste Containment Systems, Waste Stabilization, and Landfills: Design and Evaluation, Sharma and Lewis, 1994

Hazardous Waste Management, 2<sup>nd</sup> Edition LaGrega et al., McGraw-Hill, Inc. 2001

#### **Additional References and Reading Assignments:**

WebCT  
<http://www.appliedhydrogeology.com/>  
[www.EPA.gov](http://www.EPA.gov)  
[www.WVDEP.org](http://www.WVDEP.org)

#### **Course Description:**

Surface and subsurface geology; hydrogeology; geotechnical properties of soil and rock. Geotechnical engineering design aspects of landfills, groundwater barriers, tunneling. Mechanics of ground movement; sediment and erosion control.

#### **Attendance:**

As tests and assignments will include information from class notes and in-class discussions, and because some reference material will be handouts and notes, attendance is strongly encouraged. I will provide handouts and homework assignments (WebCT) if you miss class, but you will need to get notes from fellow students.

<b>Grading:</b>	Mid-Term Exam (Take Home)	25%
	Final Exam (Take Home)	30%

Assignments/Quizzes	25%
Term Project	20%

Assignments/exams not turned in on time will receive an automatic 25% off. You are encouraged to work together on assignments, but not exams!

The Final Exam will be comprehensive.