Geology 214 Environmental Geology

Winter 2011

Office Hours: MTW 2:00 – 3:00 pm or by arrangement

Text:	NO TEXTBOO	K
Date January	5 7	Topic Introduction Population/Sustainability
	10 12 14	Hazard and Risk Hydrologic Cycle & Watersheds Stream Flow and Hydrographs
	17 19 21	Martin Luther King Day—No Class Precipitation Precipitation
	24 26 28	Soils & Infiltration Soils & Infiltration Evaporation
February	31 2 4	Evapotranspiration Evapotranspiration Exam 1
	7 9 11	Snow Hydrology Runoff Processes Floods
	14 16 18	Floods Slope Stability Slope Stability
	21 23 25	Presidents Day—No Class Slope Stability Subsidence
March	28 2 4	Groundwater Groundwater Exam 2
	7 9 11	Groundwater Contamination Groundwater Contamination Groundwater Contamination & Review
Wednesda	.v 16	Final Exam 10:30 - 12:30 pm

I reserve the right to change the syllabus as required throughout the term to better meet the instructional needs of the class.

<u>About the Course</u>: Environmental geology deals with relationships between man and her/his geologic environment; it is concerned with the problems that people have in using the Earth and the reaction of the Earth to that use. Environmental geology encompasses geologic hazards (*e.g.* earthquakes, landslides, volcanic hazards, floods), waste management, groundwater supply and pollution, and energy resources to name a few. The objective of this course is to educate you about some of these concepts so you can be better land-use resource advocates.

Because Geology 101 or 211 is required for Geol 214, you may experience some overlap as I introduce a topic. Also, since this class contains a cross section of students (*i.e.* art majors to science majors) there may be times during the quarter where some of you may get overwhelmed while others of you are bored. Please be patient while I try to address the various levels.

<u>Exams</u>: There will be three 100 point exams offered in this course; two, one-hour midterm exams and a comprehensive final. The exams will cover the material discussed in the reading and lectures. You will be required to take all the exams.

Make-up exams will be given only in the case of official prearranged absences or emergencies. An excused absence form from the office of Student Affairs is required. Make-up exams may be of a different format (*e.g.*, essay type). Departmental policy prohibits any early exams.

<u>Term Project</u>. You will be required to do a term project that involves investigating the environmental geology hazards of a city of your choice. I will provide details of the project in a forthcoming handout a few weeks into the term.

If you have a documented disability you must report to me some time during the first week of class to discuss your needs.

<u>Grading:</u> Your grade will be based on the average of the three exams, which will constitute 90% of your grade. The term project will be worth 10%.

The grading scale will be as follows (a grading curve is possible, but not certain):

93.0 or above	=	А	73.0-77.5	=	С
90.0-92.9	=	A-	70.0-72.9	=	C-
87.6-89.9	=	B+	67.6-69.9	=	D+
83.0-87.5	=	В	63.0-67.5	=	D
80.0-82.9	=	B-	59.0-62.9	=	D-
77.6-79.9	=	C+	below 59	=	F

<u>Academic honesty</u> is an important part of every course at WWU. Please review the Academic Honesty Policy and Procedure in Appendix D (p. 398-399) of the 2009-2010 Course Catalog for details (http://www.wwu.edu/wwu_catalog/2009-20010catalog.pdf).