

Tentative Syllabus

ENVIRONMENTAL GEOMORPHOLOGY - AGLY 401, Spring 2005

TIME: TTH 1:40 – 4:20 pm, SBDG ROOM 216 (4 credit hours)

INSTRUCTOR: Karin L. Willoughby, 207 SBDG

OFFICE HOURS: Mon. 1 – 2 pm; Tue. and Wed. 1 – 1:30 pm; Fri. 11:15 – 11:45 am or by appt.

TEXTS: Geomorphology by Arthur L. Bloom, 100 Topographic Maps, Reading Maps

The course goal is to provide students with an understanding of the intertwining geologic processes that build and wear down the earth's surface along with the climatic processes that sculpt the earth's surface to produce the variety of landforms we see. Student objectives are 1) to have a general knowledge of constructive and destructive forces that form landscapes; 2) to have a specific knowledge of the meaning of landform terms; 3) to demonstrate understanding of landform terms by being able to recognize those forms on topographic maps; 4) to apply these basic skills in analyzing and understanding the geologic past and present as represented on topographic maps; 5) to examine how the shapes of the earth's surface has affected human history and future environmental options; and 6) to communicate this knowledge to others, in both oral and written form. The student will demonstrate competence in the above objectives through discussion, map-reading, problem-solving, oral presentation and examination. Lecture and lab are interwoven to provide extensive practice of studied concepts.

Course grades are based on:

5 exams, 10% each	(subtotal	= 50%)
1 final exam		= 15%
1 class presentation		= 10%
2 Field Trips/Term Papers		= 10%
15 class assignments, 1% each	<u>= 15%</u>	
		100%

Letter grades are based on the standard scale: 90% and above = A; 80 - 89.9% = B; 70 - 79.9% = C; 60 - 69.9% = D and below 60% = F.

The 10- 15 minute class presentation must be based upon a map of the student's choice and be accompanied by a 2-page minimum typed report. Presentations start April 19 and will not be accepted after the assigned date without a doctor's excuse. Attendance is most strongly recommended, since this course relies on intensive use of maps and other visuals in nearly all class meetings. Make-up exams will be offered at the instructor's discretion and only to those students who provide a university recognized written excuse as listed in the student handbook. Make-up exams may differ in design or content from the original exam.

Text readings in addition to the ones given below will be assigned and all readings should be completed by the assigned class meeting. The student is responsible for acquiring and completing any materials from any missed class.

If you have a physical, psychological, and/or learning disability which might affect your performance in this class, please contact the Office of Disability Services 126A, B&E, (803)641-3609, as soon as possible. The Disability Services Office will determine appropriate accommodations based on medical documentation.

Tentative Schedule

DATE	TOPIC	READINGS
1/11	Introduction to course and review of key geologic principles and theories	
/13	Sources of Energy affecting Earth's surface; History of Maps; Baker's Orders of analysis and discuss student presentations	<u>Geomorphology</u> p. 1-31
/18	Latitude & Longitude review, Symbols, Scale	<u>Reading Maps</u> p.18, 23-24,
	Topographic Maps, Contour Lines	45-47, p.48-57, 63-66
/20	"Road Rally" assignments, parts #1-5	
/25	" " " #6-9	
/27	Aerial Photographs	<u>Reading Maps</u> p.5-8, 14-17, 58-62
2 / 1	Constructive Processes	
/ 3	Destructive Processes	
/ 8	Climatic Patterns and Effects; Contouring	
/10	EXAM #1; Topographic Profiles	
/15	Individual Landform Features: Valley Features	<u>Topographic Maps</u>
/17	Valley and Plateau Features	" "
/22	Escarpment Features; Mountain Features	" "
/24	EXAM #2; Solution Features	" "
3/ 1	Alpine Glaciation	" "
/ 3	Continental Glaciation	" "
/8 – 10	SPRING BREAK	
/15	Plains Features; Wind Features	" "
/17	Volcanic Features	" "
/22	Coastal Features and Shorelines	" "
/24	REVIEW of Landforms; Geologic Maps	
/29	EXAM #3; Regional Landform Analysis	
/31	Landform Analysis Cont'd	
4 / 5	" " "	
/ 7	" " " EXAM #4	
/12	" " "	
/14	" " " EXAM #5	
/19	Student Presentations start	
/21	Student Presentations	
/25	Summary and Review	
/28	FINAL EXAM (2 pm – 5 pm)	