

Tentative Syllabus

ENVIRONMENTAL GEOMORPHOLOGY - AGLY 401, Spring 2001

TIME: MWF - 11-11:50 am, SBDG ROOM 212 (3 credit hours)

INSTRUCTOR: Karin L. Willoughby, 207 SBDG

OFFICE HOURS: MWF 12-1:00 pm; Tue. 12:30 -1:40 pm or by appointment

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

The course goal is to provide students with a web of knowledge intertwining the geologic processes that build and wear down the earth's surface 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. Course grades are based on:

3 exams, 15% each	(subtotal	= 45%)
1 final exam		= 20%
1 class presentation		= 15%
10 class assignments, 2% each	<u>= 20%</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 or printed report. Presentations start April 25 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.

Some reading assignments in addition to the ones given below will be given 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
1/12	Introduction to course	
/15	HOLIDAY	
/17	Baker's 1 st order analysis and discuss student presentations	
/19	Latitude & Longitude review, Symbols, Scale	<u>Reading Maps</u> p.18, 23-24, 45-47, p.48-57, 63-66
/22	Topographic Maps, Contour Lines	
/24	"Road Rally" assignments, parts #1-3	
/26	" " " #4,5	
/29	" " " #6,7	
/31	" " " #8,9	
2/ 2	Constructive Processes	
/ 5	Destructive Processes	
/ 7	Destructive Processes cont'd	
/ 9	Climatic Patterns and Effects	
/12	Topographic Profiles	
/14	EXAM #1	
/16	Baker's 4 th - 9 th order Landforms: Valley Features	<u>Topographic Maps</u>
/19	Valley and Plateau Features	" "
/21	Escarpment Features	" "
/23	Mountain Features	" "
/26	Solution Features	" "
/28	Alpine Glaciation	" "
3/ 2	Continental Glaciation	" "
/5-9	HOLIDAYS	
/12	Plains Features	" "
/14	Wind Features	" "
/16	Volcanic Features	" "
/19	Coastal Features and Shorelines	" "
/21	" " " "	" "
/23	REVIEW of 4 th -9 th order Landforms	

/26 EXAM #2
 /28 Geologic Maps
 /30 2nd and 3rd order Landform Analysis

 4/ 2 " " "
 / 4 " " "
 / 6 HOLIDAY

 / 9 2nd and 3rd order Landform Analysis
 /11 " " "
 /13 " " "

 /16 " " "
 /18 " " "
 /20 " " "

 /23 EXAM #3
 /25 Student Presentations start
 /27 " "

 /30 Summary and Review
 5/ 4 FINAL EXAM (11 am - 2 pm)

Note: Enrollment and grading are separate for AGLY 401 (lecture) and AGLY 401L (lab). Lab is not required to successfully complete AGLY 401.

Tentative Syllabus

ENVIRONMENTAL GEOMORPHOLOGY LABORATORY- AGLY 401L, Spring 1999

TIME: Monday 2-4:50 pm, SBDG ROOM 212 (3 credit hours)

INSTRUCTOR: Karin L. Willoughby, 207 SBDG

OFFICE HOURS: Mon., Wed. & Fri. 12-145 am

and Mon. & Fri. 8:30-9:00 am or by appointment

TEXT: Topographic Maps, Reading Maps and highly recommended:
Geomorphology by Arthur L. Bloom

The course goal is to provide students with complementary exercises that explore and demonstrate concepts related to making maps and using maps in practical situations. Student objectives are 1) to learn to apply basic skills in map making; 2) to use these skills in analyzing and understanding the geologic past and present; and 3) to communicate this knowledge to others, in both oral and written form. The student will demonstrate competence in the above objectives through discussion, map-making, map-reading, problem-solving, oral presentation and examination. Course grades are based on:

Graded Lab Report Average	= 50%
Student Project	= 30%
1 Final Exam	= <u>20%</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 student project must be based upon a map or maps of the student's choice used for a career-related purpose or other instructor-approved topic; the oral presentation must be accompanied by a 2-page minimum typed or printed report. Presentations are on April 12 and 19 and will not be accepted after the assigned date without a doctor's excuse. Attendance is most strongly recommended, since this lab requires hands-on effort to complete each assignment. Make-up labs 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. 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.

Note: Enrollment and grading are separate for AGLY 401 (lecture) and AGLY 401L (lab). Lab is not required to successfully complete AGLY 401.

Tentative Schedule

- 1/18 HOLIDAY
- /22 History of Maps and Scale
- /29 Contouring
- 2/ 5 Contouring cont'd
- /12 Making Contour Maps
- /19 Aerial Photographs (2/22 last day to drop w/o WF)
- /26 Stereo Pairs
- 3/ 5 HOLIDAY
- /12 Maps from Aerial Photographs
- /19 Aerial Photographs and Contour mapping
- /26 Pace, Distance and Brunton Compass
- 4/ 2 Pace and Compass Mapping
- / 9 work on student projects
- /16 Present Projects
- /23 Present Projects
- /30 Review
- 5/ 9 EXAM (2-5 pm)