Geomorphology 300 – Spring 2011 - Geomorphology Projects – Suggestions

Students can team up with others for field projects – but I expect them to hand in separate reports. All projects will need to have a literature search and follow the general outline of a *Geology* paper including the GSA form of references. See the opposite side of this page for format – you are welcome to deviate from this report form – build a web page or film etc., however you will need to clear it me first and adopt the general outline of a written report.

- 1 Detailed surficial map of one of the field sites (ie. Fern Valley, Secrest Arboretum, Wooster Memorial Park)
- 2 Analysis of streamflow data coupled with climate data
- 3 Surveying and using GPS to provide a baseline for boulder location, bed and bank locations and repeat photography.
- 4 Data loggers and installation of water table wells
- 5 Analysis and measurement of hydraulics at a confluence or another reach of a river.
- 6 Dendrogeomorphic project of a mass movement
- 7 Landsat and other remote sensing studies of landscape change glaciers or erosion
- 8 Analysis of a sediment core and a detailed sedimentary look at a deposit and where appropriate including radiocarbon analysis (I will fund the dating for a project or we will do it as a group).
- 9 Analyses of the newly available LIDAR data of Ohio (or some other place in the world).
- 10 Report on the groundwater hydrogeology of the Wooster area.

Project Timeline:

Choose topic, project proposal and plan poste on blog: 25 February

Draft due: 22 April

Project presentation and blog entry: 2 May

Final project report due: 5 May – last day of classes

Writing Assessment Rubric - Climate Change 2011 Geology 300

I will be using the rubrics below to grade your written assignments. You too should use this as a guide.

			have one. tive and appropriate?
1	2	_ 3	4
2. Al	bstract – i	it should	l summarize the major findings of the project.
1	2	_ 3	4
		has logi	cally ordered paragraphs. Most reports are Abstract, Introduction/background, esentation, Discussion and Conclusions.
1	2	_ 3	4
	rammar a The essay		chanics rect grammar, punctuation, and spelling.
1	2	_ 3	4
			gure captions that include the source and refer to the figures in the text as Figures ould have scales and be readable.
1	2	_ 3	4
	onclusion Conclusio		d be the main issues the paper discovered or discussed.
1	2	_ 3	4
	eferences		
			d the references cited in the text. For websites include the date accessed and the ould be easily able to find the information you cite.
1	2	_ 3	4
			s area so that quality is truly exceptional.
			It they do not markedly detract from overall quality. To a contract they do not markedly detract from overall quality.
			so that quality is severely undermined.

Geomorphology Lab Assessment Rubric Geology 300

Name:							
1. Title Is the title informative and appropriate? 0 1 2 3 4							
2. Organization The lab has logically ordered sections – Purpose, Background, Data, Analysis and Discussion, Conclusions.							
01234							
3. Figures: The Figures are clear and professional and captions are provided and reference to them in the text is done.							
01234							
4. Grammar and Mechanics The writing uses correct grammar, punctuation, and spelling (see Strunk http://www.bartleby.com/141/for these mechanics).							
0 1 2 3 4							
5. Creativity and Style The lab appropriately integrates the figures and findings of the study effectively and presents an enaging discussion not boring scientific speak.							
01234							
6. References Can the reader find the references cited in the text. For websites include the date accessed and the URL and title. I should be easily able to find the information you cite.							
01234							
 4 = No problems in this area so that quality is truly exceptional. 3 = Only a few problems so that the overall quality is good. 2 = Some problems, but they do not markedly detract from overall quality. 1 = A number of significant problems so that quality is very low. 0 = So many problems so that quality is severely undermined. 							

FIELD NOTES GRADING FORM GEOL 300: Geomorphology

NAME DATE_		
GRADING CRITERIA		
Details of field activity (what, when, where, w/ whom)	□ 2	□ 3
Good "memory-jogging" details included (e.g., weather conditions) \square 1 \square 4	□ 2	□ 3
Clear headings, subheadings, and lists	□ 2	□ 3
Sketches of important field relations	□ 2	□ 3
Sketches are appropriately labeled (scale bars, direction of view) \square 1 \square 4	□ 2	□ 3
Notes legible \Box 1 \Box 4	□ 2	□ 3
Notes not crowded (can come back later to annotate)	□ 2	□ 3
Sample collection sites noted (if applicable)	□ 2	□ 3
Summary or commentary notes	□ 2	□ 3
ADDITIONAL COMMENTS:		
Overall Points Score: (36 points possible) Letter Grade:_		_

Points Rubric

- 4 = virtually no problems in this area
- 3 = some problems, but they do not detract from the comprehension of the notes
- 2 = enough problems so that another geologist would have trouble reading the notes
- 1 = many problems in this area that make the notes unusable by another geologist

Blog Assessment Rubric Geology 300

You too should use this as a guide to your blog posting – please post it on the Course web.

1. Title – You should have one.
Is the title informative and appropriate?
1 2 3 4
2. Organization and style The blog has logically ordered paragraphs and it is esthetically interesting.
1 2 3 4
3. Grammar and Mechanics
The blog uses correct grammar, punctuation, and spelling.
1 2 3 4
4. Figures You should have figure captions that include the source and refer to the figures in the text as Figures 1, 2, etc. Maps should have scales and be readable.
1 2 3 4
5. References
Can the reader find the figures and references cited in the text. For websites include the date accessed and the URL and title. I should be easily able to find the information you cite/present.
1 2 3 4
4 = No problems in this area so that quality is truly exceptional.
3 = Some problems, but they do not markedly detract from overall quality.
2 = A number of significant problems so that quality is very low.
1 = So many problems so that quality is severely undermined.

Geology 300 – Oral Assessment Rubric

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Student:	
Student.	
Presentation of Talk Clear introduction and stated importance of the topic Talk is organized with logical progression Sufficient evidence to support assertions Showed full and thorough knowledge of the topic Proper summary of findings and stated conclusions	_ - - -
Visual aids Figures and text useful and necessary Figures professional and neat Appropriate labeling and indication of scale	-
Speaker Clear with audible vocal projection Articulate with minimal verbal clutter Developed a rapport with audience Delivered talk at an appropriate rate Welcomed and thoughtfully addressed audience questions	
Additional comments:	
Total points []	

Rubric Points Key

- 4 = virtually no problems in this area so that the overall quality is very high
- 3 = some problems, but they do not detract substantially from the overall quality
- 2 = a sufficient number of problems so that the overall quality is diminished
- 1 = completely lacking in this area or many problems so that the overall quality is very low