ES202 Term Paper Assignment Winter Term 2019 ***(UPDATED Feb. 11, 2019)***

I. Assignment Schedule

Week 7 Monday February 18, 2019 Submit Chosen Paper Topic (typed, word processed, name, date)
Week 8 Wednesday February 27, 2019 Submit Preliminary Outline (with list of references proper format)
Week 9 Wednesday March 6, 2019 Submit Expanded Outline with notations (with reference list)

* An expanded outline consists of an organized shell of the paper format, headings/subheadings, with detailed notes and reference citations. This will form the template for completing your final manuscript (your class notes are an example of an organized expanded outline with detailed notations)

Week 10 Friday March 15, 2019 Submit First Draft of Paper to Instructor (Optional for Review)
Week 11 Wednesday March 20, 2019 Submit Final Draft of Paper to Instructor (Required at Final Exam)

II. Term Paper Format

Paper Length: 4 to 5 pages of text, double spaced, font size = 12 (excluding title page, references cited, tables, figures), number the pages sequentially, include cut-and-paste figures and tables as needed.

Paper Format: Use title, heading, subheading, references cited method as prescribed for lab write-ups. Figures and tables can be copy-and-pasted directly from professional articles, just make sure that the source is properly cited.

NOTE: the headings and subheadings will be different from that of the lab write-ups, depending on your topic. **An example outline** (i.e. headings and subheadings) of the "Influence of Geology on Land Use in Western Oregon" is shown below:

INTRODUCTION

GEOLOGIC OVERVIEW
- **Tectonic Setting**
- **Bedrock Geology**
  - **Volcanic Rocks**
    - ***Basalt***
    - ***Intrusives***
  - **Sedimentary Rocks**
    - ***Sandstone***
    - ***Shale***
- **Geologic History**
  - **Tertiary**
  - **Quaternary**

INFLUENCE OF GEOLOGY ON LANDUSE
- **Hillslope Erosion**
- **Human Occupation**

SUMMARY AND CONCLUSION

REFERENCES CITED

Methodology for Reference Citation

Reference Citation Within Body of Text

Cite a reference whenever you paraphrase another author's work. When making a citation within the body of text, the cited reference should parenthetically include the author's last name and the year of publication (DO NOT USE FOOTNOTES).

The following is an example citation where the author is referred to in the flow of text:

Smith (1999) suggested that a protractor is the best tool available for measuring angles between lines.

The following is an example citation where the author is parenthetically cited after a paraphrased statement:

The calculated rate of river erosion is identical to other rates estimated for the Colorado River (Johnson, 1980).

Bibliographic Listing of References Cited

1. Use a section subheading of "References Cited" for your bibliographic listing.

2. Use the following citation format:

   Author's Last Name, Author's First and Middle Initials, Date, Title of Book or Article: Publisher or Journal, Page Numbers.

3. List your references cited in alphabetical and chronological order. Sort alphabetically first, then use chronological sorting if the same author appears a number of times (sort from oldest to youngest publication).

The following is an example format to use for citing references (you are expected to follow this format):

References Cited

Alexander, D.E., 1995, A survey of the field of natural hazards and disaster studies, *in* Carrara, A., and Guzzetti, F., eds., Geographical Information Systems in Assessing Natural Hazards: Kluwer Academic Publishers, Netherlands, p. 1-19.

Anbalagan, R., and Singh, B., 1996, Landslide hazard and risk assessment mapping of mountainous terrains: A case-study from Kumaun Himalaya, India: Engineering Geology, v. 43, p. 237-246.

Brabb, E.E., 1995, The San Mateo County California GIS project for predicting the consequences of hazardous geologic processes, *in* Carrara, A., and Guzzetti, F., eds., Geographical Information Systems in Assessing Natural Hazards: Kluwer Academic Publishers, Netherlands, p. 299-334.

Carrara, A., and Guzzetti, F., eds., 1995, Geographical information systems in assessing natural hazards: Dordrecht, Netherlands, Kluwer, 71p.

Clouatre, E., Dubois, J.N., and Poulin, A., 1996, The geographic information-system and regional delimitation of zones at risk for landslides, Hull-Gatineau Region, Quebec: Canadian Geographer, v. 40, p. 367-386.

Dooley, K., 1992, Geographic information systems in E&P computing: Geobyte, October issue, p. 36-41.

Here's How to Cite a Web Page...

U.S. Geological Survey, 2001, Water Quality of the Willamette Valley: Internet Web Resource, URL: http:/www.usgs.gov/gwater/willamette.htm (last updated March 1, 2001).

U.S. Environmental Protection Agency, 2000, Online Report of Contamination of Regional Aquifer Systems in Oregon: Internet Web Resource, URL: http:/www.epa.gov/bigdirt/oregon.html (updated June 29, 2000).

Other Information: Refer to syllabus "Plagiarism and Writing Section" and "Lab Portfolio Section" for more information on writing philosophy. Also refer to the "Taylor's Writing Guide" handout for tips on effective scientific writing.

Special Note: Copying and pasting other workers writing and web pages will result in an automatic score of "0" and you will be referred to the Dean of Students for appropriate disciplinary action for plagiarism.

III. List of Possible Topics to Choose From

(Theme: ES202, geologic surfaces processes, Oregon and the Pacific Northwest).

Coastal Tsunami Record of Cascadia Subduction Zone
Active mountain building and neotectonics in the Coast Range
Flood hazards in Oregon, or in the PNW (or specific parts of the region / state)
Flood hazards of the Willamette Valley
Climate Change and Influence on Water Resources in Willamette Valley
Effects of Forestry Practice on Watershed Processes in Western Oregon
The influence of fluvial process on landuse in the Willamette Valley
Soils geology in western Oregon (or other specific parts of the region / state)
Sedimentary history and Stratigraphy of western Oregon; Central Oregon
Tsunami hazards and deposits associated with coastal Oregon (or PNW)
History of sea level change and climate along the Oregon coast (or PNW)
Glacial history of the Pacific Northwest; Glacial History of Puget Sound Washington
Glacial history of the Oregon Cascades
Glacial history of the Wallow Mountains
History of Lakes, Playas, and Climate Change in the Oregon Desert
Geologic history of Columbia River gorge
Coastal Processes / Hazards of Oregon
Active Tectonics of Coastal Oregon
Landsliding / mass wasting hazards in Oregon (or specific parts of the region / state)
Debris Flow hazards in western Oregon
The Missoula Flood story of Washington / Oregon
Recent geology of the Willamette Valley
Coastal erosion and hazards in Oregon
Pleistocene history of dune fields in Oregon
Climate change and related geologic history of western Oregon (or any other part of the state)
Volcanic hazards of Oregon, the PNW, or specific areas in the region
Groundwater issues in Oregon, eastern Oregon, or other specific part of the state
The geology of Portland's, or other Oregon city, water supply
Surface water / water resource issues in Oregon
Fluvial processes in western Oregon and impact on salmon habitat
The influence of coarse woody debris on stream flow processes in western Oregon
Geology and Geomorphology History of Grand Canyon
.... any other topic or topics that you can think of, that we covered in class, and apply directly to Oregon / PNW!
If you have ideas different from the above, discuss them with Dr. Taylor before spending a bunch of time.

IV. Sources of Information: WOU Library GEOREF database (ask librarians), library journals, the internet (www.usgs.gov, www.epa.gov, state DOGAMI office, Google, other state agency web sites, OSU web sites).

NOTE: Dr. Taylor has a large number of journal articles available in digital format – ask!

Georef is a search database for geologic literature, it can be accessed via the library website
Any publications not held by the WOU library can be ordered via electronic interlibrary loan (ILL).

ES202 Term Paper Grading Sheet **Name**_____

Item	**Total Points**	**Score**	**Comments**
Title	1 pt		
Outline1	4 pts	_____	_____
Outline2	36 pts	_____	_____
Paper			
Organization	6 pts	_____	_____
Presentation	6 pts	_____	_____
Grammar	7 pts	_____	_____
Ref. Cited	2.5 pts	_____	_____
Timeliness	2.5 pts	_____	_____
Final Score		____/ 35	

**presentation includes neat, professional-looking work, inclusion of maps and figures to illustrate concepts, inclusion of tables / data to illustrate concepts.