

**Fall 2012 - ES322 Geomorphology**  
**Final Lab Portfolio (updated list Thurs, Dec. 6, 2012)**

**Due Date:** Thursday Dec. 6, 2012 – 5 PM

Instructions: In a neat, professional-looking, well organized 3-ring binder, assemble the following lab exercises with tab separators **in the order listed below**. **Do not** include class notes in your lab binders, only the exercises you've completed. Separate all in-class activities / short problem sets from the class notes. **Do not** use plastic slip covers for individual pages. On the outside of your binder, include a professional looking cover sheet with your name, class, term and document title. Creative art and personalized design work on the cover is encouraged.

(1) Lab 2 - Introduction to Aerial Photography (paper work + 5 air photo interpretations)	/3
<a href="http://www.wou.edu/las/physci/taylor/g322/airlab.pdf">http://www.wou.edu/las/physci/taylor/g322/airlab.pdf</a>	
(2) In-Class Air Photo Note – EM Spectrum wavelength-frequency problems	/3
<a href="http://www.wou.edu/las/physci/taylor/g322/airphoto.pdf">http://www.wou.edu/las/physci/taylor/g322/airphoto.pdf</a>	
(3) Determining Scale of Aerial Photographs	/3
<a href="http://www.wou.edu/las/physci/taylor/g322/air_photo_scale.pdf">http://www.wou.edu/las/physci/taylor/g322/air_photo_scale.pdf</a>	
(4) Spatial Scales and Image Resolution	/3
<a href="http://www.wou.edu/las/physci/taylor/g322/spatial.pdf">http://www.wou.edu/las/physci/taylor/g322/spatial.pdf</a>	
(5) Intro to Applied Hydrology Problem Page – Question 3	/3
<a href="http://www.wou.edu/las/physci/taylor/hydrohydrolab1.pdf">http://www.wou.edu/las/physci/taylor/hydrohydrolab1.pdf</a>	
(6) Introduction to Watershed Morphometry	/8
<a href="http://www.wou.edu/las/physci/taylor/g322/ES322%20Introduction%20to%20Watershed%20Morphometry.pdf">http://www.wou.edu/las/physci/taylor/g322/ES322 Introduction to Watershed Morphometry.pdf</a>	
(7) River Systems - Key Word Search Exercise	/7
<a href="http://www.wou.edu/las/physci/taylor/g322/fluvial_key_terms.pdf">http://www.wou.edu/las/physci/taylor/g322/fluvial_key_terms.pdf</a>	
(8) Lab 6 Part 2 - Fluvial Geomorphology (Hydrologic Analysis)	/8
<a href="http://www.wou.edu/las/physci/taylor/g322/fluvlab2.pdf">http://www.wou.edu/las/physci/taylor/g322/fluvlab2.pdf</a>	
(9) Video Exercise: The "Big Chill" Climate Change	/3
<a href="http://www.wou.edu/las/physci/taylor/g322/Chill_climate_chage.pdf">http://www.wou.edu/las/physci/taylor/g322/Chill_climate_chage.pdf</a>	
(10) Glaciers - Key Word Search Exercise	/7
<a href="http://www.wou.edu/las/physci/taylor/g322/glacial_key_terms.pdf">http://www.wou.edu/las/physci/taylor/g322/glacial_key_terms.pdf</a>	
(11) Lab XX - Glacial Dynamics and Climate Change	/8
<a href="http://www.wou.edu/las/physci/taylor/g322/grinnell_glacier_ex.pdf">http://www.wou.edu/las/physci/taylor/g322/grinnell_glacier_ex.pdf</a>	
(12) In-Class Tectonic Geomorphology: Maverick Spring, WY Topo Map Example	/3
<a href="http://www.wou.edu/las/physci/taylor/g322/maverick_spring_WY.ppt">http://www.wou.edu/las/physci/taylor/g322/maverick_spring_WY.ppt</a>	
(13) Lab Exercise: Topographic Expression of Folded Terrain (Question 1-5)	/5
<a href="http://www.wou.edu/las/physci/taylor/g322/topo_structure_ex.pdf">http://www.wou.edu/las/physci/taylor/g322/topo_structure_ex.pdf</a>	
(14) Neotectonics of Oregon Coast (part 5, p. 10-11; Task 7-8(Fig8), Q5-1 through 5-7)	/6
<a href="http://www.wou.edu/las/physci/taylor/g322/coastlab.pdf">http://www.wou.edu/las/physci/taylor/g322/coastlab.pdf</a>	
<b>TOTAL</b>	<b>/70</b>
<b>OPTIONAL EXTRA EFFORT EXERCISE (will add 10 pt weight to your lab score)</b>	<b>/10</b>
Read "Accerator Mass Spectrometry in Geology" paper, write 2 page summary (double spaced, times new roman, 12 pt, 1 inch margins)	