

**Final Lab Portfolio Instructions  
ES476/576 Hydrology Winter 2008**

**Due Wed. March 19, 2008**

**In a neat, professional-looking 3-ring binder, with tabs that are well labeled, include the following class activities, in the following order:**

1. Alsea River Flood Frequency Tutorial / Example  
[http://www.wou.edu/las/physci/taylor/hydro/Alsea\\_Flood\\_Tutorial.pdf](http://www.wou.edu/las/physci/taylor/hydro/Alsea_Flood_Tutorial.pdf)
2. Flood Frequency Lab Exercise  
[http://www.wou.edu/las/physci/taylor/hydro/flood\\_frequency\\_analysis\\_exercise.pdf](http://www.wou.edu/las/physci/taylor/hydro/flood_frequency_analysis_exercise.pdf)
3. Groundwater Problem Set 1 (Introduction to Groundwater)  
<http://www.wou.edu/las/physci/taylor/hydro/gwprob1.pdf>
4. Groundwater Problem Set 2 (Groundwater Flow)  
<http://www.wou.edu/las/physci/taylor/hydro/gwprob2.pdf>
5. Introductory Surfer Tutorial ([http://www.wou.edu/las/physci/taylor/hydro/surf\\_tut1.pdf](http://www.wou.edu/las/physci/taylor/hydro/surf_tut1.pdf))  
Demo Contour Map (data, grid, map)  
Demo Contour Map with Color Fill
6. Introduction to Surfer Exercise  
<http://www.wou.edu/las/physci/taylor/hydro/introsrf.pdf>
7. Applications of Surfer to Groundwater Hydraulics  
<http://www.wou.edu/las/physci/taylor/hydro/gwsrflab.pdf>
8. In-Class Exercise: Monmouth Groundwater Contouring Exercise
9. Aquifer Testing Tutorial  
[http://www.wou.edu/las/physci/taylor/hydro/aqte\\_tutorial.pdf](http://www.wou.edu/las/physci/taylor/hydro/aqte_tutorial.pdf)
10. Well Hydraulics / Aquifer Testing Exercise  
<http://www.wou.edu/las/physci/taylor/hydro/wellaqtex.pdf>