

ES476 Hydrology Lab Portfolio Checklist (Updated Jan. 30, 2018)

All work below will be due in the digital lab report 1 upload to Moodle. Assemble your lab portfolio in the order presented below, include title page, table of contents, individual cover page for each exercise; and assemble in a seamless PDF document.

Week 1

Task 1. Video Exercise: Endless Voyage Water Properties

http://www.wou.edu/las/phyci/taylor/hydro/video_ex_endless_voyage_water_properties.pdf

Task 2. One-Page Reading Summary: Trenberth et al, 2007 Paper on Global Water Budget

http://www.wou.edu/las/phyci/taylor/es476_hydro/trenberth_etal_2007_global_water_budget.pdf

Task 3. Introductory Hydrology Problems (Veisman and Lewis Chap. Problems; Questions 1.1, 1.2, 1.4, 1.5, 1.8)

http://www.wou.edu/las/phyci/taylor/es476_hydro/intro_problems.pdf

Week 2

Task 4. Key Word Search: Introductory Concepts of Hydrology

http://www.wou.edu/las/phyci/taylor/es476_hydro/key_word_search_Intro_hydro_concepts.docx

Task 5. Physical Properties of Water Review Exercise

http://www.wou.edu/las/phyci/taylor/hydro/Phys_prop_water_ex.pdf

Task 6. Applied Problems in Hydrology – (Questions 1, 2, 3A-B-C)

http://www.wou.edu/las/phyci/taylor/es476_hydro/hydrolab1.pdf

Task 7. Moodle Test Upload / Practice Lab Report – Due by Class Time Tuesday Jan. 23

<https://moodle.wou.edu>

Week 3

Task 8. Poster Project Paper/Topic Selection

http://www.wou.edu/las/phyci/taylor/es476_hydro/ES476_Poster_Topics_Final_2018.pdf

Task 9. Video Exercise: Understanding Weather

http://www.wou.edu/las/phyci/taylor/es476_hydro/understanding_weather_ex.pdf

Task 10. 500-800 word reading summary: Hirschboeck 1991 Climate and Floods

http://www.wou.edu/las/phyci/taylor/es476_hydro/hirschboeck_1991_climate_floods.pdf

Example Article Summary: http://www.wou.edu/las/phyci/taylor/es476_hydro/eg_summ.pdf

Task 11. Intro to Contouring & Elevation Models Exercise

http://www.wou.edu/las/phyci/taylor/es476_hydro/intro_contouring_dem.pdf

Week 4

Task 12. In-class Isohyet Map of Oregon

http://www.wou.edu/las/phyci/taylor/es476_hydro/context1.pdf

Task 13. In-Class Thiessen Polygon / Precipitation Exercise

http://www.wou.edu/las/phyci/taylor/es476_hydro/prcpex.pdf

Task 14. Mono Lake Water Budget Exercise (Precipitation and Evaporation)

http://www.wou.edu/las/phyci/taylor/es476_hydro/monolake.pdf

Week 5

... Textbook review questions – Surface Water TBD; other work TBD

Digital Lab Report 1 Due Friday February 9 (Moodle Upload) --- pending