ES476 Hydrology Final Lab Portfolio Checklist – Due Wednesday March 18, 2020 (11 PM)

All work below will be due in the digital lab report 2 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 6

Task 6-1. GIS Speaker Series 500-800 word summary: Goslin, GIS Applications in Watershed Restoration
https://people.wou.edu/~taylors/es476_hydro/GoslinM_JobTalk_WOU_2020.pptx

Task 6-2. GIS Speaker Series 500-800 word summary: Szpakowski, Remote Sensing Applications to Fire Ecology
https://people.wou.edu/~taylors/es476_hydro/Szpakowski_Jensen_Review_of_RS_Applications_Fire_Ecology.pdf

Task 6-3. Fluvial Hydrology Problem Set – Rational Runoff Method
https://people.wou.edu/~taylors/es476_hydro/surface_water_exercise_rational_runoff.pdf

Week 7

Task 7-1. GIS Speaker Series 500-800 word summary: Makida, Remote Sensing and Urban Heat Distribution (TBD)
https://people.wou.edu/~taylors/es476_hydro/Szpakowski_Jensen_Review_of_RS_Applications_Fire_Ecology.pdf

Task 7-2. Stream Ordering Exercise
https://people.wou.edu/~taylors/es476_hydro/stream_ordering_ex.pdf
http://www.youtube.com/watch?v=0s4irHgpXNA

Task 7-3. Stream / Flood Hydrology Lab
Exercise 26 p. 88-89; Exercise 27 p. 90-91; Exercise 29 p. 94-95; Exercise 30 p. 95-97
https://people.wou.edu/~taylors/es476_hydro/river_lab_flood_analysis.pdf
http://www.youtube.com/watch?v=a1gXKyIKnHk

Week 8

Task 8-1. GIS Speaker Series 500-800 word summary: Liang, GIS and vegetation analysis in karst terrain
https://people.wou.edu/~taylors/es476_hydro/ Liang_Topo_Veg.pdf

Task 8-2. Intro to Groundwater Flow Model – p. 5 Hand Sample Porosity / Karst Hydrology Air Photo Worksheet
https://people.wou.edu/~taylors/es476_hydro/intro_groundwater_flow_model.pdf

Task 8-3. Groundwater Problem Set 1 (Q. 1, 2, 7, 8, 9, 16)
https://people.wou.edu/~taylors/es476_hydro/gwprob1.pdf

Week 9

Task 9-1. Intro to Hydrogeology of Monmouth-Independence Area
https://people.wou.edu/~taylors/es476_hydro/monmouth_groundwater_exercise.pdf

Task 9-2. Groundwater Problem Set 2 (Q. 8, 9, 10)
https://people.wou.edu/~taylors/es476_hydro/gwprob2.pdf

Task 9-3. In-Class Working with Groundwater Contour Maps
https://people.wou.edu/~taylors/es476_hydro/gw_contour_map_ex.pdf

Task 9-4. Well-Field Analysis Problem
https://people.wou.edu/~taylors/es476_hydro/well_field_analysis.pdf

Week 10

Task 10-1. Student Presentations – Power Point Slide Show + 1-page summary note class handout
https://people.wou.edu/~taylors/es476_hydro/ES476_Hydro_Presentations_Winter2020_Willamette_Basin.docx