

ES341 Fundamentals of GIS Final Project Grade Sheet/Check List

- ___ Amanda-Hannah 1. Gales Creek Watershed (Tualatin Basin, Washington County)
- ___ Seth-Andrew 2. Beaver Creek-Waldport Bay-Vingie Creek (Alsea Basin, Lincoln County)
- ___ Alicia-Chris 3. Lower Coquille Watershed (Coquille Basin, Coos County)
- ___ Pat -Rachel 4. Lower Coast Fork Willamette River (Willamette Basin, Lane County)
- ___ Matt-Ryan 5. Sixes River Basin (Sixes River, Curry County)
- ___ Mark-Brandon 6. Lower Siletz Watershed (Siletz-Yaquina Basins, Lincoln County)
- ___ Alyssa-Brenna 7. Mill Creek/Umpqua River Watershed (Umpqua Basin, Douglas County)
- ___ Joseph-Thomas 8. Kilchis River Watershed (Wilson-Trusk-Nestucca Basin, Tillamook County)
- ___ Bill-Roberto-Dustin 9. West Fork Millicoma River (Coos Basin, Coos County)

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- ___ Task 3. Identify all of the USGS 7.5-minute quadrangles that contain portions of your watershed.
 - ___ Task 4A. Watershed sub-basins; create a map layout, with name, title, scale, north arrow, legend, etc.
 - ___ Task 5. dissolve your sub-basin polygons into one large watershed; Create a map layout; print
 - ___ Task 6. quads that contain your watershed footprint. Create a map layout, print
 - ___ Task 7A. Subbasins with stream layers, Print map layout, with name, title, scale
 - ___ Task 8. Determine watershed parameters:
 - ___ Total Drainage Area (sq. meters)
 - ___ Total Drainage Area (sq. km)
 - ___ Total Length of Watershed (sq. km)
 - ___ Total Width of Watershed (sq. km)
 - ___ Watershed Length/Width Ratio
 - ___ Total No. of Subbasins in Watershed
 - ___ Average Area of Subbasins in Watershed
 - ___ Total No. of Stream Segments or Tributaries in Watershed
 - ___ Total No. of First Order Stream Segments
 - ___ Total No. of Second Order Stream Segments
 - ___ First Order Stream Frequency (Total No. / Drainage Area)
 - ___ Task 9-1. URL Addresses of top 8 GIS data web links
 - ___ Task 9-2. Define/create *.prj files (UTM) and print them out to include in your project portfolio
 - ___ Task 9-5 Create Layers / Clip to Watershed Boundary: Printout for each watershed
 - ___ Mosaic of Quad DRG's
 - ___ Mosaic of Quad DEMs
 - ___ Vegetation with polygons labeled
 - ___ Soils on DEM
 - ___ Bedrock on DRG's
 - ___ Roads on bedrock
 - ___ Streams on precipitation
 - ___ Streams on vegetation
 - ___ Task 10. Mosaic of DOQs; layout with map info
 - ___ Task 11. DEM - watershed parameters:
 - ___ Minimum Watershed Elevation (feet)
 - ___ Maximum Watershed Elevation (feet)
 - ___ Minimum Slope (decimal degrees)
 - ___ Maximum Slope (decimal degrees)
 - ___ Task 12. Project Poster
 - ___ Watershed Summary
 - ___ Map of Oregon with watershed location
 - ___ Physiography
 - ___ DRGs ___ DEMs ___ DOQs ___ Climate Map ___ Vegetation map
 - ___ Geologic Overview
 - ___ Geologic Map ___ Soil Map
 - ___ Hydrologic Summary
 - ___ Watershed map with stream overlays
 - ___ Task 13. Web dissemination of project on P:\drive