

## ES341 Winter 2013 – Assignment Checklist (Updated Feb. 11, 2013)

### Digital Portfolio Instructions:

#### Outline of Content:

- I. Title Page with name, class, instructor, stylized cover graphic related to GIS
- II. Table of Contents with checklist of portfolio contents, in order prescribed by Professor; **use task numbers identified on checklist below.**
- III. Provide a title page for each exercise or weekly assignment bundle in the portfolio; **use task numbers identified on checklist below.**
- IV. Provide a title page for multi-page exercises, especially the text tutorials; **use task numbers identified on checklist below.**

Compile PDFs into one combined document, not as Adobe bundled attachments. Make your portfolio document a stand-alone, readable file that can be easily posted to the web. Combine your individual documents into one portfolio file

File Naming Convention for your portfolio submission: *Lastname\_ES341\_Midterm\_Portfolio.pdf*

Upload to Moodle; **Midterm Portfolio due Friday February 15, 2013; 5 PM**

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### Week 1

- Task 1A. Read Clarke (2003) Introduction to GIS Chapter  
[http://www.wou.edu/las/physci/taylor/es341/clarke\\_ch1.pdf](http://www.wou.edu/las/physci/taylor/es341/clarke_ch1.pdf)
- Task 1B. Complete Introduction to Topographic Maps Exercise (Monmouth Quad)  
<http://www.wou.edu/las/physci/taylor/es341/mapintro.pdf>
- Task 1C. Complete in-class lat-long conversion / PDF creation / Email attachment exercise  
[http://www.wou.edu/las/physci/taylor/es341/lat\\_long\\_decimal\\_conversion\\_in\\_class.pdf](http://www.wou.edu/las/physci/taylor/es341/lat_long_decimal_conversion_in_class.pdf)
- Task 1D. Complete Introduction to Contouring and Digital Elevation Models Exercise  
[http://www.wou.edu/las/physci/taylor/es341/intro\\_contouring\\_dem.pdf](http://www.wou.edu/las/physci/taylor/es341/intro_contouring_dem.pdf)

### Week 2

- Task 2A. Complete Basics of Vector-Raster Data Exercise  
<http://www.wou.edu/las/physci/taylor/es341/vecrasex.pdf>
- Task 2B. Introduction to Contouring and Digital Elevation Models  
[http://www.wou.edu/las/physci/taylor/es341/intro\\_contouring\\_dem.pdf](http://www.wou.edu/las/physci/taylor/es341/intro_contouring_dem.pdf)
- Task 2C. Work on Price Text Chapter 1 (GIS Data) Reading and Tutorial Exercises  
Read p. 9-23, Answer chapter review questions (p. 24) 1, 2, 3, 6; work through Mastering Skills Tutorial p. 25-39 answering all the embedded questions, complete exercises 1-6 and 10 on p. 40. **Screen capture each significant outcome of the skills tutorial and include in PDF portfolio submission. Place short-answers to embedded questions on a 1-page MS-word document, convert to PDF (do not scan all of the Mastering Skills Pages).**
- Task 2D. Week 1-2 Lab Deliverable Moodle Test Submission (Due by 5 PM, Wed. Jan. 16)  
Log on to moodle... <https://online.wou.edu/>
- Task 2E. In Class Raster Grid Exercises, "Vector Data Model" Class Notes  
<http://www.wou.edu/las/physci/taylor/es341/vector.pdf>
- p. 3 Geometric Elements and Topology
  - p. 4 scaling exercise
  - p. 6 Root mean Square Error Exercise
- Task 2F. Introduction to Georeferencing, Map Themes and Spatial Associations  
[http://www.wou.edu/las/physci/taylor/es341/Intro\\_Map\\_Themes\\_Layers.pdf](http://www.wou.edu/las/physci/taylor/es341/Intro_Map_Themes_Layers.pdf)

### Week 3

- Task 3A. Read Clarke (2003) Chapter 3 – GIS Data formats  
[http://www.wou.edu/las/physci/taylor/es341/clarke\\_ch3.pdf](http://www.wou.edu/las/physci/taylor/es341/clarke_ch3.pdf)

Task 3B. Read Clarke (2003) Chapter 2 – Map Projections

[http://www.wou.edu/las/physci/taylor/es341/clarke\\_ch2.pdf](http://www.wou.edu/las/physci/taylor/es341/clarke_ch2.pdf)

Task 3C. In-Class Exercises from “Map Projections and Coordinate Systems” Note Set

<http://www.wou.edu/las/physci/taylor/es341/project.pdf>

-p. 2 In-Class Exercise: Spatial Scales and Digital Image Resolution

-p. 4 In-Class Exercise - Measuring Great Circle Distances on the Globe

Task 3D. In Class Raster Grid Exercise, p. 3 “Raster Data Structure” Class Notes

<http://www.wou.edu/las/physci/taylor/es341/raster.pdf>

Task 3E. Work on Price Text Chapter 2 (Mapping GIS Data) Reading and Tutorial Exercises

Read p. 41-52, Answer chapter review questions (p. 53) 1, 2, 3, 8, 9, 10; work through Mastering Skills

Tutorial p. 55-69 answering all the embedded questions, complete exercises 1-10 on p. 70. **Screen capture each significant outcome of the skills tutorial and include in PDF portfolio submission. Place short-answers to embedded questions on a 1-page MS-word document, convert to PDF (do not scan all of the Mastering Skills Pages).**

Task 3F. Work on Price Text Chapter 3 (Presenting GIS Data) Reading and Tutorial Exercises

Read p. 71-83, Answer chapter review questions (p. 84) 3, 5, 7; work through Mastering Skills Tutorial p.

85-98 answering all the embedded questions, complete “Exercise” at bottom of p. 98. **Screen capture each significant outcome of the skills tutorial and include in PDF portfolio submission. Place short-answers to embedded questions on a 1-page MS-word document, convert to PDF (do not scan all of the Mastering Skills Pages).**

#### Week 4

Task 4A. Complete Key Word Review Exercise

[http://www.wou.edu/las/physci/taylor/es341/gis\\_intro\\_concept\\_key\\_word\\_exercise.docx](http://www.wou.edu/las/physci/taylor/es341/gis_intro_concept_key_word_exercise.docx)

Task 4B. Complete “Managing Oregon Map Projections in Arc Map” tutorial exercise

[http://www.wou.edu/las/physci/taylor/es341/Managing\\_Projections\\_in\\_Arc\\_Map.pdf](http://www.wou.edu/las/physci/taylor/es341/Managing_Projections_in_Arc_Map.pdf)

Task 4C. Work on Price Text Chapter 11 Reading and Tutorial Exercises (Map Projections)

Read p. 295-309, Answer chapter review questions (p. 310) Q1-9; work through Mastering Skills Tutorial p.

311-325 answering all the embedded questions, complete exercises 1-7 on p. 326. **Screen capture each significant outcome of the skills tutorial and include in PDF portfolio submission. Place short-answers to embedded questions on a 1-page MS-word document, convert to PDF (do not scan all of the Mastering Skills Pages).**

#### Week 5

Task 5A. Work on Price Text Chapter 4 (Attribute Data) Reading and Tutorial Exercises

Read p. 99-112, Answer chapter review questions (p. 113) 1, 2, 3, 5, 7, 9, 10; work through Mastering Skills

Tutorial p. 114-127 answering all the embedded questions, complete exercises 1,2,3,4,5,6,8,10 on p. 127-128.

**Screen capture each significant outcome of the skills tutorial and include in PDF portfolio submission. Place short-answers to embedded questions on a 1-page MS-word document, convert to PDF (do not scan all of the Mastering Skills Pages).**

Task 5B. Work on Price Text Chapter 5 (Queries) Reading and Tutorial Exercises

Read p. 129-140, Answer chapter review questions (p. 141) 1, 2, 3, 6, 8, 9, 10; work through Mastering Skills

Tutorial p. 142-153 answering all the embedded questions, complete exercises 1-9 on p. 154. **Screen capture each significant outcome of the skills tutorial and include in PDF portfolio submission. Place short-answers to embedded questions on a 1-page MS-word document, convert to PDF (do not scan all of the Mastering Skills Pages).**

#### Week 6

Task 6A. In-Class Exercise – Joining Data Tables and Exporting of Feature Classes

[http://www.wou.edu/las/physci/taylor/es341/table\\_join\\_export.pdf](http://www.wou.edu/las/physci/taylor/es341/table_join_export.pdf)

**Study for Midterm Exam, Wed. Feb. 13; Complete/compile digital lab portfolio due Friday Feb. 15, 5 PM (Moodle Upload)**