ES302 Quantitative Methods Spring 2016
Final Lab Portfolio Checklist (Updated June 3, 2016)

NOTE: Digital Midterm Lab Report for Moodle Upload Thursday June 9, 11 PM
Complete the following lab exercises, scan, and compile in digital lab report PDF format (cover page, table of contents, individual lab title sheets), organize your work in the following order:

Final Exam Wednesday June 8, 12 PM

1. Scaling and Map Drawing http://www.wou.edu/las/physci/taylor/g302/Intro_scale_map_drawing.pdf
2. Scaled Map of Classroom
   http://www.wou.edu/las/physci/taylor/g302/class_map_exercise.pdf

3. Large Scale Format Photo Scale Exercise http://www.wou.edu/las/physci/taylor/g302/large_format_photo_ex.pdf

4. UTM Location Exercise
   http://www.wou.edu/las/physci/taylor/g302/utm_exercise.pdf

5. Waltham Chapter 5 Problems Trigonometry Applications (Q. 5.1, 5.2, 5.3, 5.5, 5.6)
   http://www.wou.edu/las/physci/taylor/g302/waltham_chap5_trig.pdf
6. Introduction to the Three-Point Problem
   http://www.wou.edu/las/physci/taylor/g302/three_pt_problem_intro.pdf
7. Pittsburgh Coal Three-Point Problem
   http://www.wou.edu/las/physci/taylor/g302/three_pt.pdf

8. Measuring Map Areas Using the Planimeter
   http://www.wou.edu/las/physci/taylor/g302/measuring_scaled_map_areas.pdf

9. Watershed Delination and Map Area Measurement
   http://www.wou.edu/las/physci/taylor/g302/watershed_delineation_drainage_area_exercise.pdf
10. Introduction to Rose Plots
    http://www.wou.edu/las/physci/taylor/g302/intro_rose_plots.pdf
11. Application of Ternary Diagrams to Geologic Problems (Part 1 QFL Diagram, and Question 6.4)
    http://www.wou.edu/las/physci/taylor/g302/ternary.pdf
12. Introduction to Stereographic Projections
    http://www.wou.edu/las/physci/taylor/g302/stereo_graphic_projections.pdf
    http://www.wou.edu/las/physci/taylor/g302/ES302_In_class_ex_intro_stereonets.pdf

13. Introduction to Geostatistics and Data Analysis
    http://www.wou.edu/las/physci/taylor/g302/stat_ex.pdf
    http://www.wou.edu/las/physci/taylor/g302/dataanal.pdf

14. In-Class Introduction to Excel and Equation Functions
    Siltstone-Sandstone Hillslope Data Summary
    Excel Analysis of Sandstone Point-Count Data and Ternary Plot

15. OPTIONAL EXTRA BONUS: Relationships Between Geologic Variables (Waltham Ch. 2: Q 2.1, 2.2, 2.3, 2.8, 2.11)
    http://www.wou.edu/las/physci/taylor/g302/waltham2.pdf

16. OPTIONAL EXTRA BONUS: Introduction to Contouring and Interpolation
    http://www.wou.edu/las/physci/taylor/g302/ES302_contour_interpolation.pdf