GEOG 492/592 (USP 592)   GIS II Lab Winter 2011

Lab Instructor: Nadia Jones
Email: sittara@pdx.edu   Email Hours: M-F 9am – 6pm

Lab Times in CH 469: **Tues, Thurs** 4pm – 6pm
      (Lab starts the first week of the class)

ODIN accounts and Access Badge: Visit http://www.uss.pdx.edu/ to set up an ODIN account. Get an Access Badge (student proxy card) in Neuberger Hall lobby. This is different from your PSU OneCard. This badge has a 5-digit number on it (not your PSU ID#). We need the badge number in order to issue access to the computer lab. Please fill out the online course questionnaire.

Lab Assignments: Lab assignments are on the course website: http://web.pdx.edu/~jduh/courses/geog492w11/. Turn lab assignments into my mailbox located in the Geography Office, Cramer Room 424 by the due date/time. I will not accept emailed copies of labs. Labs will be accepted late for only one week after the deadline with a 10% point deduction. One week past the deadline, no lab(s) will be accepted unless arrangements have been made with me in advance.

Grading: Maps and answers to questions contribute equally to the total score. The final lab score for the term will be weighted based on the point scheme below. Labs may be submitted in lab at the start of the Thursday section (4pm) or prior to that in my mailbox in the department office.

Lab 1: Geodatabase Topology (Due by 4:00pm Jan 13)	30pts
Lab 2: Raster Modeling (Due by 4:00pm Jan 27)	100pts
Lab 3: ArcGIS ModelBuilder/Pattern Analysis (Due by 4:00pm Feb 3)	35pts
Lab 4: Dasymetric Mapping (Due by 4:00pm Feb 10)	35pts
Lab 5: Pattern Analysis (Due by 4:00pm Feb 17)	35pts
Lab 6: Interpolation and Geostatistical Modeling (Due by 4:00pm March 3)	65pts

Note: Some labs require the ArcINFO license which does not come with the student version; you will need to complete the exercise at school.

Data Management is Important: Use your H drive and removable storage device to save your MXDs, lab reports, and back up your data. Pay attention to file structure and names. Organization can save a lot of time and trouble.

Lab reports: You will be held to a higher standard than in GIS I for format and content. Complete sentences are mandatory. Grammar and concise explanations are imperative. "Click" does not describe the operation you are performing. *Please include the questions with the answers.* Report only the number and units for questions requiring a numerical result. For conceptual questions, consider definition, example and detail. Print your maps in **GRAYSCALE only (no color)** unless otherwise noted, and double-sided is preferred. Proper page formatting a layout is expected.

Maps: Maps should be properly labeled with their corresponding exercise number. It is better to embed maps in your lab report rather than including them all at the end. However, I will need to be able to read them. Take this into consideration with print size (especially for labels). They do not need to be a full page in size if included with the lab write-up, but use the space effectively.

While this is not a course in cartography, maps are the most common communication tool you will employ as a GIS practitioner to report your analyses. *Maps should always stand alone and include the basic elements*: title, north arrow, scale bar, legend and/or appropriate labels. To communicate effectively, symbology must be properly designed. The default symbology of many GIS programs does not always do so. Consider the number of levels and significant digits. A "metadata" text box including author, date, data sources and information about the analysis will lend credibility to your maps and is required. *Please note that the course number is NOT a data source*. Finally, design your maps to be reproduced in grayscale only. What comes across well in color does not always so well in black and white.

Contact info. With questions - please ask during lab or via e-mail. While I try to check and respond to e-mail often, I may not always be able to get back to you with a useful answer until the next lab time.

Last updated December 16th, 2010 by Nadia Jones sittara@pdx.edu