

Draft: November 5, 2007

Advanced Cartography GEOG 411/511

Map Design and Production

Instructor: Jim Meacham

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Class: UH 9:00-9:50
206 Condon

Lab: UH 10:00-11:50
442 Mckenzie (SSIL)

Required Texts:

The Visual Display of Quantitative Information,
Second Edition, Edward Tufte, 2001.

Making Maps: A Visual Guide to Map Design for GIS,
John Krygier and Denis Wood, 2005

The Non-Designer's Design Book,
Second Edition, Robin Williams, 2004.

Course Description

The purpose of this course is to present topics, materials, and tools relevant to solving map design and production problems. This course will build and expand on concepts introduced in GEOG 311: *Maps and Geospatial Concepts* and GEOG 416: *Introduction to GIS*. The course includes lectures, guest and student presentations, map critique sessions, and topic discussions. The following topics will be covered: geographic data compilation, the map design process, graphic design principles, data graphics theory, integration of GIS and graphics tools, production methods, color in map design, use of type, quantitative maps, graphing, and cartographic design issues for print and other media presentation types. Atlases and other map products produced in the UO InfoGraphics Lab will serve as teaching tools and examples for learning a wide variety of mapping methods.

Software tools used in the SSIL Lab include Adobe Illustrator and Photoshop, ESRI ArcGIS, and Microsoft Excel. Exercises and final map products will be required using the tools covered in this course. A final class project and poster presentation will be required that will count for 50% of your grade. The primary goal of the class is for students to gain the knowledge and skills necessary to produce professional quality map products. The final project will to design and create a finished thematic cartographic product, that includes maps with supporting graphs and text. The prerequisites for the class are GEOG 311: *Maps and Geospatial Concepts*. 511 graduate students

Grading: Exercises 15%, Quizzes 20%, Map Review 15%, and Project and Final Presentation 50%. In addition, graduate students will need to give a more in-depth map review and class presentation.

