

GEOG 410/510
CRN 14948/14949
DYNAMIC CARTOGRAPHY
Fall 2002

Interactive Map Design



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Class: UH 1:00-1:50
206 Condon
Lab: UH 2:00-2:50
SSIL 442 McKenzie
Prerequisite: GEOG 311 or Instructor permission

Course Description

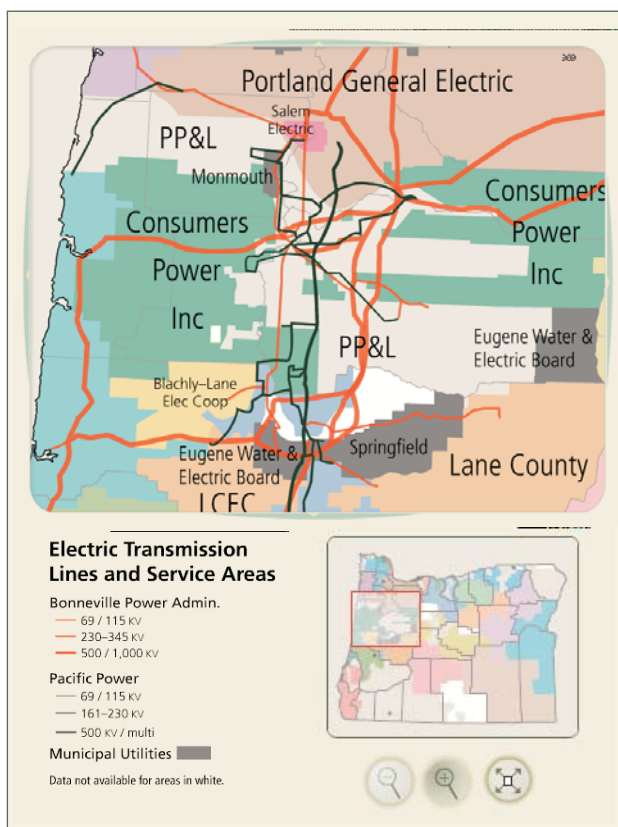
Cartographic methods have undergone interesting and exciting changes with the advent of new tools that simplify the production of interactive and animated maps. The purpose of this course is to help provide you with the skills to design and publish these new map representations to the web using Macromedia Flash.

Dynamic cartography has emerged as a field that blends traditional cartography with GIS (Geographic Information Science) to construct interactive map displays. Dynamic maps differ from traditional print maps in that they encourage problem-solving, hypothesis generation, and decision-making by providing methods to interact with visual displays and dynamically link to the data behind the graphics. The exciting result is a map “tool” that is both graphically rich and data-driven.

The lecture portion of this course will examine research in GeoVisualization, information visualization, cognitive science, and other fields to provide a theoretical foundation for symbolization and representation techniques for dynamic maps.

The laboratory portion of the course will provide hands-on experience using Macromedia Flash in constructing dynamic maps and publishing them to the web.

There are no required textbooks for the course. Readings will include academic journal articles and book chapters from the relevant literature.



Grading

Exercises and Quizzes	20%
Readings	20%
Projects	50%
Final Presentation	10%