

## Geography 311: Cartographic Methods - Fall 2002

Instructor: Ken Kato

Lecture: 08:00-08:50 MW / 260 CON

Lab: 09:00-09:50 MW / 442 MCK or  
10:00-10:50 MW / 442 MCK

Office: 163 Condon (InfoGraphics Lab)

Office Hours: TBA

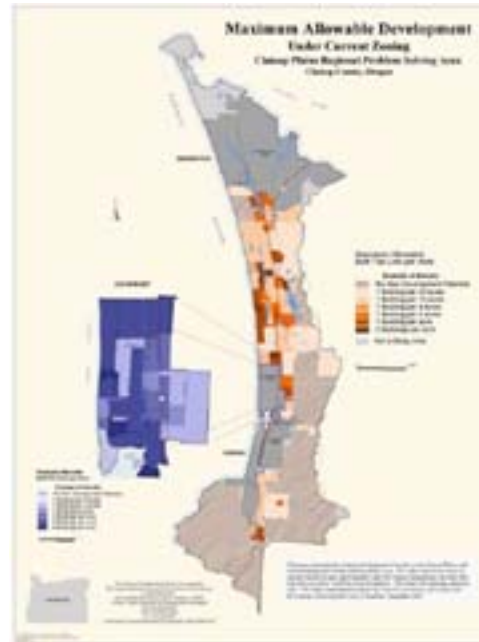
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GTF: ??

**Text:** Robinson, A.H., J.L. Morrison, P.C. Muehrcke, A.J. Kimerling, and S.C. Guptill. 1996. Elements of Cartography, Sixth Edition. New York: John Wiley & Sons, Inc.

**Prerequisites:** No prerequisites required, however, experience with personal computers – specifically Windows operating systems – is highly encouraged, as much of the course and labs will focus on digital mapping techniques.



**Course Description:** The field of cartography is undergoing rapid change, both in its widespread use and through changes in technology. The recent changes in the world have demonstrated a need to both better understand and better communicate the complex and dynamic space around us. Maps are increasingly being used to meet this need. Our modern media – newspapers, magazines, television news programs, the internet – have begun relying more and more on maps to provide information. Cartography has also undergone rapid change due to changes in technology. Pen and paper have been eclipsed by personal computers and specialized software.

The purpose of this course is to provide students with an understanding of the field of cartography and the tools used for producing maps. The following topics will be covered; 1) introduction to cartography and map making, 2) exploration of the basic geometric and measurement concepts used to transform three dimensional real-world information into a two dimensional map product, 3) methods and sources of geographic information used for map creation, 4) cartographic design principles – layout and hierarchy, symbology, color, etc., 5) introduction and lab use of digital mapping tools – Geographical Information Systems and graphic design software, printers, color plotters, scanners.

**Grading:** Grades will be based on three components: 1) In-class exams, 2) Lab Exercises, 3) Final map project and presentation. In-class exams will consist of a mid-term exam worth 20% and a final exam worth 25% of your grade. The lab exercises are worth 40% of your grade. The final map project and presentation is worth 15% of your grade.