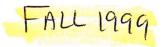
NRM338 Introduction To Geographic FALL 1999 **Information Systems**



Instructors:

Dave Verbyla, Associate Professor Office Hours: Anytime I am in my office or by email appointment. My Schedule

Email: dverbyla@lter.uaf.edu.

Julieanne Fogde, Teaching Assistant

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Lectures: Tuesday/Thursday, Elvey Auditorium, Geophysical Institute Lab: Tuesday 2-5PM or Tuesday 6-9PM or Wednesday 2-5PM or Wednesday 6-9PM

Grading:

Based on total points from the following:

Four Homeworks Assignments: 80 points

Two On-line Exams: 200 points

Five Reading Assignments: 120 points

Thirteen Lab Assignments: 260 points

Total possible points sum to 660 points. Final grades will be curved based on total points earned in the course.

Course Objectives:

- 1) To learn how technologies such as Global Positioning Systems (GPS), Geographic Information Systems (GIS), and satellite imagery can be used in natural resoures management.
- 2) To understand basic concepts independent of any particular software. All exams are open-book because memorization is not important. Memorization is short-term learning. We emphasize long-term understanding.
- 3) To learn basic GIS tools in ARC/INFO and ArcView. These are the most popular GISs used by natural resource management agencies such as the Alaska Department of Natural Resources, USDA Forest Services, U. S. Bureau of Land Management, U. S. Park Service, U. S. Fish and Wildlife Service, Alaska Fish and Game, Ducks Unlimited, Tanana Cheifs, Sea Alaska, North Slope Borough, Fairbanks North Star Bourough, etc.

Reading Assignments

On reserve at the Rasmuson and Bioscience libraries:

Introduction to Global Positioning Systems (GPS)

GPS Differential Corrections

GPS Applications

Arc Model

Map Projections

Homework Assignments

Web Browsing Assignment Map Coordinates

Affine Transformation Models

Practice Exam Questions

Download Data For ArcView Labs

Fall 1998 Schedule

Date	Lectures	Lab
Sept. 2	Introduction	
Sept. 7-9	GPS/GIS	Lab1: Windows/Help
Sept. 14-16	Coordinate Systems	Lab2: Field GPS
Sept. 21-23	Vector GIS Model	Lab 3: Documentation/GPS to GIS
Sept. 28-Sept 30	Images	Lab 4: Image Rectification
Oct. 5-7	Tile Systems	Lab 5: Arcedit Digitizing
Oct. 12-14	Rubbersheeting	Lab 6: Edgematching Stream Coverages
Oct. 19-21	Scanning	Lab 7: Edgematching Scanned Maps
Oct. 26-28	Attribute Data	Lab 8: Heads-Up Digitizing/Adding Attributes
Nov. 2-4	GridEdit Tools	Lab 9: Autotracing Scans
Nov. 9-11	Image Classification	Lab 10: Image Classification
Nov. 16-18	ArcView Views, Themes, Legends	Lab 11: ArcView:Error Checking
Nov. 23	ArcView Tables	Lab 12: ArcView:Tabular Analysis
Nov. 30-Dec. 2	Layout and Charts	Lab 13: ArcView: Map Production
Dec. 7-9	Review	On-Line Exam

Solution to 1997 On-Line Final Mid-Semester Exam 1996 Last Year's On-Line Final

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Page last updated 26 August, 1999.