

## **ADVANCED GEOGRAPHIC INFORMATION SYSTEMS – SPRING 2003**

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Office Hours: Tu, Th 2-3 pm

### **PURPOSE --**

Geographical data is increasingly important in understanding our society and our environment. This course will focus on teaching students the principles and operation of GIS software through computer-based exercises and projects.

### **PREREQUISITES --**

It is expected that students will have completed their Natural Science/Mathematics and Social Science College Area Requirements and have successfully completed EVSC 362- GIS Methods or equivalent. Additional computing experience, especially with geographical information systems will be desirable.

### **COURSE REQUIREMENTS AND GRADING --**

Grading will be based on:

- Presentation on a GIS Technique (20%)
- Design and creation of specialized maps (15%)
- Individual Interactive Online Web Page (20%)
- Group GIS Project (25% )
- Exam (10%)
- Participation (%10)

### **HONOR CODE , PASSWORDS, IN-CLASS COMMUNICATION --**

Because much can be learned from each other and group practice, students should seek understanding from any relevant source. Instructors will provide advice on how to proceed with practice and may provide similar advice on project preparation.

The Honor Code will cover the final preparation of each individual or group exercise. Although students may work together to learn the procedures, each student's or student group's project must be substantially different from any other student. All sources used must be documented.

Passwords providing access to servers, software and other components of the University's computing system are for the exclusive use of students in this course. Providing passwords to others and misuse of computing privileges will be grounds for immediate dismissal from this course.

Students should refrain from the use of electronic mail, pagers and cellular phones during class lectures and discussions. Cellular phones and pagers should be turned off to avoid disruptions.

## **Activities Schedule**

Jan. 16	Introduction - Student & Instructor Goals for Course
Jan. 21 & 23	Orientation to Software*
Jan. 28 & 30	Elements of Map Design* /Map design exercise
Feb. 4 & 7	Remote Sensing & GIS * / Map Design Presentations & Feedback
Feb. 11 & 13	Remote Sensing & GIS * / Map design exercise
Feb. 18 & 20	On-Line GIS */ Revised Map Design Presentations
Feb. 25 & 27	On-Line GIS*
Spring Break	
Mar. 11 & 13	Special Topics*
Mar. 18 & 20	Special Topics*
Mar. 25 & 27	GIS Programming*
Apr. 1 & 3	Data Modeling / Structured Query Language*
Apr. 8 & 10	Group Projects Presentations
Apr. 15 & 17	Group Project Presentations/ Individual On-Line GIS Presentations
Apr. 22 & 24	Individual On-Line GIS Presentations
Apr. 29	Wrapup

Items marked with a \* will present material to be included in the final exam