



Regional Application Center

Geographic  
Information  
Science



Certificate Program

**ENVS 455 G Course Syllabus:**

**Fall Semester 2016**

Taught at the

**REGIONAL APPLICATION CENTER (GIS 101)**

R. Brent Yantis, Director; Course Instructor (Room 218 Abdalla Hall)

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Office Hours Tues. 2-5pm otherwise by appt.

**ENVS 455G. Geographic Information Science I. (2,2,3)**

GIS theory and methodology as applied to Environmental problem solving, practical GIS software skills, and basic scientific computing skills, map development, intro to database development and basic photo interpretation. Prereq. Basic Computer literacy in micro-computers or permission of instructor.

Fall/Spring

Course Description:

This course begins your development into the world of computer mapping technology. It is designed to develop skills in practical problem solving where the technology of GIS can be implemented. Basics will be taught in cartography, map symbols, database manipulation and data mining.

Initially it will consider certain aspects of the use of basic mapping skills including the review of projections, map and data scales and sources of project data and imagery. This will lead into an examination of ArcGIS Version 10 for real world problem solving.

Course Objectives:

Class will meet once a week in the classroom (Abdalla 218). The class will discuss some of the concepts being examined in GIS and basic mapping skills. Individual topics will be discussed and examples provided with some hands on exercises. These exercises will not be graded, but they must be completed satisfactorily in order to obtain a grade for the class.

Class will meet once again each week in the Regional Training Center (Abdalla 164) for a hands-on lab time developing skills in photo interpretation, topographic mapping, remote sensing and GIS software. Each student will have access to a computer, with GIS software, during specified hours of operation outside of the scheduled class time. Participants will also complete an individual GIS development project. These projects may employ data located or provided by participants themselves, and will be oriented toward skill sets being studied in class.

Grading:

Letter grades are assigned on a 10 point scale. The class grades will be based on the following percentages:

Midterm Exam:	30 per cent
Final Presentation:	20 per cent
Final GIS Project:	35 per cent
Class Quiz Grades:	10 per cent
Attendance and Class Participation:	5 per cent
<b>Total</b>	<b>100 per cent</b>