



# Geographic Information Science



## Certificate Program

**ENVS 473 G Course Syllabus:**

**Fall Semester 2017**

Taught at the  
**REGIONAL APPLICATION CENTER (GIS 101)**  
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### **473 G. Remote Sensing in GIS. (2,2,3)**

Emphasis on practical Remote Sensing applications. Introduces Remote Sensing and analysis based on aerial photography and satellite imagery, applying this technology for analyzing spatial-related issues, in a variety of sciences and fields of study. Offering introductory RS skills, and basic scientific image interpretation and principles of Photogrammetry.

Prereq. ENVS455G. Spring, Fall

#### Course Description:

This course continues your development into the world of computer mapping technology, based on skills learned, taught in the ENVS 455G course. It is designed to further develop skills in practical problem solving where the technology of Remote Sensing can be implemented.

Applications will develop around multiple mini real-world projects, led by Lab assistant with final products reported to class. These projects will include the use of elemental tools in remote sensing for the classification of aerial photography and satellite imagery.

#### Course Objectives:

Class and Lab will meet once a week in the conference/classroom/lab (Abdalla 206 and 164). The class will discuss some of the concepts being examined in Remote Sensing and introductory classification methods. Individual projects will be discussed and assigned. Some hands on exercises will be conducted in order to establish project goals and objectives. These exercises will be graded and must be completed satisfactorily in order to obtain a grade for the class.

#### Grading:

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

Midterm Exam:	35 percent
Final Exam:	35 percent
Project Grades:	25 percent
Attendance and Class Participation:	5 percent
<b>Total</b>	<b>100 percent</b>

#### Text and Reference Materials (provided by instructor):

A series of online references will be provided and handouts for this course.