
FEG 365/ERE 565: PRINCIPLES OF REMOTE SENSING
SPRING 2011 - COURSE SYLLABUS

INSTRUCTOR

Giorgos Mountrakis
Phone: 315-470-4824 (for emergencies)
URL: www.aboutgis.com

Office: 419 Baker Hall (mailbox: 402 Baker Hall)
E-mail: gm@esf.edu
Office hours: Tuesday/Thursday 9:30-10:30am or
email for appointment outside these hours.

Lectures: Tuesday and Thursday 8:00 - 9:20am Baker 437

Lab: Thursday 3:30 - 6:20pm Baker 437

REQUIRED TEXT

Remote Sensing and Image Interpretation by Lillesand, Kiefer and Chipman (**sixth** edition)
available at Syracuse University Bookstore in the Schine Student Center

COURSE DESCRIPTION

The class provides a qualitative and quantitative introduction to the fundamentals of acquiring, analyzing and utilizing remote sensing data in the performance of natural resource inventories, environmental quality surveys, site development studies and land use analyses. The class describes the fundamentals of remote sensing and also covers introductory concepts and methods in digital image processing and photogrammetry.

COURSE OBJECTIVES

The class aims to provide understanding of

- The basic principles and concepts in remote sensing
- Commonly used terms
- The application of remote sensing
- Basic concepts in digital image processing and photogrammetry

PROGRAM OUTCOMES

Upon successful completion of the course students should be able to

- Describe the fundamental concepts of remote sensing
- Describe applications of remote sensing
- Describe the applicability of simple remote sensing techniques

RESPONSIBILITIES AND ATTITUDES

Academic dishonesty is unacceptable and will be dealt with severely. Be respectful of your Instructor, TAs and fellow students.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

If you have an identified disability and will need accommodations, you should contact Tom Slocum in the Office of Student Life in 110 Bray Hall. He will discuss the ESF process and work with you to access supportive services. If you have a learning disability, the College will require you to provide supportive documentation and will develop an approved accommodation sheet for you. Accommodations cannot be provided until the accommodation sheet is established and we meet to discuss its applicability to this course. Accommodations cannot be established retroactively.

GRADING

COMPONENT	UNDERGRADUATES + GRADUATES
Project	15%
Quizzes	5%
Labs	25%
Midterm	20%
Final	30%
Participation	5%

IMPORTANT: To pass the course your final exam grade should be at least 65% (independently of all other grades).

- **PROJECT**

Each week a group of students will provide a 10-15 minute presentation on a student-selected application of remote sensing technology. At the end of the semester each group will have to provide a 10 page report on the subject.

- **QUIZZES**

A quiz will be administered every Thursday. Grading will be 0 if you miss the quiz, 1 if your performance is less than 50%, and 2 if your score is larger than 50%. You have to be in class to take the quiz.

- **LABS**

Course will have 8-10 laboratory exercises. In the first half we will deal with image hardcopies, in the second half we will use computer software.

- **EXAMS**

A midterm exam will be offered the week before the spring break and a final comprehensive exam during the scheduled final exam period.

- **PARTICIPATION**

This grade will reflect the instructor's opinion on your comprehension of the taught material and the effort you put forward.

Note that graduate students will have to meet increased project expectations and additional questions at the final.

COMPUTER USE

E-mail will be used as a common means of communicating outside class times. All students have access to an e-mail account through the Syracuse University system. The internet will be used for providing information throughout the course. Computer clusters at ESF and at SU provide access for those who do not have home access. **It is the students responsibility to check daily their email syr accounts.**

The class will also use BlackBoard software. Make sure you can log-in using this web address:
blackboard.syr.edu

SOURCES OF SUPPORT AND CLASS ABSENCE

If you experience academic or personal difficulties that affect your studies or life, there are people and resources who will help you. In particular, the ESF Office of Student Life, 110 Bray Hall (470-6660) will provide academic support, career guidance, personal counseling, or direct you to the proper source of help. If you encounter a situation beyond your control in which you will be missing 3 or more days of classes, you can contact the Office of Student Life and they will contact all your instructors for you. If you have an identified disability and will need accommodations, contact Tom Slocum in the Office of Student Life in 110 Bray Hall.