

Course Syllabus
GEOG 4468
REMOTE SENSING
Fall Semester - 2017

Class Meeting Room: LDB 327

Class Time: Monday, Wednesday 11:00-12:20pm

Instructor Information:

Name: Dr. Gang Gong

Office Number: Lee Drain Building - 333

Office Hours: MW 12:30-2:00pm in LDB333 or LDB327

Phone: 294-4564

E-mail: ggong@shsu.edu

* I always try to have an “open-door” policy as regards office hours, so please feel free to call or come by any time that you have a question.

Course Description: The goal of the course is to introduce the general principles of remote sensing and basic digital image processing techniques to students who are beginners in this field. Fundamental knowledge on the physics of remote sensing, photogrammetry, multispectral, hyperspectral image analysis will be introduced. The subject will be synthesized by developing an overall application of the discipline, not just knowledge in one aspect. The course will be taught with an emphasis on the image processing techniques using ERDAS IMAGINE, as well as geographical applications of remote sensing. Lab assignments will supplement classroom lecture and discussion. At the end of the semester students should have a good understanding and basic skills of remote sensing.

Textbook Information: Introductory Digital Image Processing: A Remote Sensing Perspective, by John Jensen. 3rd Ed., Prentice Hall, ISBN 0-13-145361-0.

Attendance Policy: Attendance in lecture should be considered mandatory. In addition, if you decide to come, please come to class on time and stay until the class is over.

Exams and Grading: There will be two tests and one lab final. Each test counts 150 points and the lab final counts 200. There will be seven labs with 50 points each. All students are required to complete a final project and give in-class presentation. This will count for the remaining 150 points. Here is the breakdown of the grades:

Labs (50*7)	350
Tests (150*2)	300
Project	150
Lab Final	200
Total	1000

The grades will be assigned as follows:

A (900-1,000), B (800-899), C (700-799), D (600-699), F (less than 600)

Late Work: Each lab will have specific due time. Unless with permission from the instructor, overdue lab within one day will result in loss of 50% of the points. Lab overdue beyond one day will not be accepted. Since I will leave enough time for you to work on each lab assignment, no excuse will be allowed for late submission.

Missed Exams:

Generally there is no make-up exam. However if you have a **documented excuse** for missing the exam and get permission from the instructor **ahead of time**, you could take up to one make-up exam during the last week of the semester; i.e., during the week before finals begin. There is no make-up exam for the lab final.

Final Project:

Each student is required to do a final project using the technique learned in this class to solve a problem you are interested in, and give a powerpoint presentation to the whole class by the end of the semester. I suggest you start to think about the topic of your final project as early as possible. You are very welcome to come to talk to me about your idea.

Cell Phones:

Please turn off your cell phones when you come into the classroom. If you **MUST** have them on, please use the vibrate option.

Academic Honesty

Students are encouraged to study in groups to prepare for tests. However, “group effort” is definitely not permitted when taking exams! This will result in an automatic zero on a test and an F in the course.

Substantially presenting someone else's work as one's own will also result in an F. Helping one another is encouraged after one's own work is finished, but don't do someone's work for them.

More things you need to know

Back up your work on network drive and/or on a portable device (flash drive, CD-R, etc).

Please do not shut down the computers when finished working on them.

Don't cover air vents on equipments.

Report any problem with the equipment to the instructor immediately.

No food or drink is allowed.

Help to keep the room clean and problem-free.

Do not install any software on the computers in the lab.