

**Course Syllabus**  
**Geography 448**  
**INTRODUCTION TO REMOTE SENSING**  
**3 credit hours**  
**Spring Semester - 2008**

**Class Meeting Room:** LDB 327 – Remote Sensing Lab

**Class Time:** Monday, Wednesday, Friday 9:00-9:50am

**Instructor Information:** Name: Dr. Gang Gong  
Office Number: Lee Drain Building - 333  
Office Hours: TR 12:00-2:00pm  
Phone: ext. 4564  
E-mail: gxx002@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/Objective:** 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. Attendance will be taken at the beginning of each class. To encourage attendance, I will give those with no more than two absences over the whole semester 20 points bonus at the end.

In addition, it is necessary that you please come to class on time and stay until the class is over. If you leave early without having cleared it with the instructor, you will be counted absent.

**Exams and Grading:** There will be two midterm exams and one lab final. Each midterm exam has 200 points and the lab final counts 100. We are also going to have seven labs with 50 points each. Each student is also required to do a final project (in-class presentation and a report) which counts for the remaining 150 points. Here is the breakdown of the grades:

<b>Labs (50*7)</b>	<b>350</b>
<b>Midterms (200*2)</b>	<b>400</b>
<b>Project</b>	<b>150</b>
<b>Lab Final</b>	<b>100</b>
<b>Total</b>	<b>1000</b>

The grades will be assigned as follows:

<b>900-1,000 points</b>	<b>A,</b>
<b>800-899 points</b>	<b>B,</b>
<b>700-799 points</b>	<b>C,</b>
<b>600-699 points</b>	<b>D,</b>
<b>less than 600 points</b>	<b>F</b>

**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. The project consists of a one-page abstract (due by **April 9**) describing what you want to do, a final report (at least 5 pages, due by **May 2**), and a presentation. 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 it. Your grade for the project will be based on your report and presentation.

**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, then quietly leave the room if necessary. Ringing cell phones are disruptive to the entire class. Please be courteous to your fellow students.

## **Academic Honesty**

*All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.*

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. Two such occurrences will result in an F in the course.

## **Americans with Disabilities Act**

*SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. Note: No accommodation can be made until you register with the Counseling Center. Therefore, any student seeking accommodations should go to the Counseling Center and Services for Students with Disabilities in a timely manner and complete a form that will grant permission to receive special accommodations.*

## **Religious Holy Days**

*If a student desires to be excused from class, assignment, or a test to participate in activities associated with a religious holy day, then the student must notify the instructor of each scheduled class that he/she will miss for religious reasons. In such cases, the student will be required to take the test or submit the assignment early—unless there are good reasons for not being able to do so and the instructor has agreed to those reasons.*

## **Special Circumstances**

If unusual circumstances arise during the semester, such as a medical problem, death in the family, etc., that adversely affects your attendance PLEASE **discuss this with me immediately and provide documentation**. Under these conditions, I will gladly do my best to accommodate your situation by excusing absences, allowing late work to be turned in within a reasonable time period, and so on. However, if you wait until after-the-fact, at the end of the semester, to let me know that you were experiencing these adverse circumstances, there is **nothing** I can do about it at that time. **I will not retroactively make accommodations and I will not give extra credit assignments to make up for grade deficiencies of any type.**