

***Remote Sensing of the Environment: Lab
GEOG/GEOL 4093
Fall Semester 2011***

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Office Hours: CIRES Ekeley S236, Tues. and Thurs. 3:30 - 4:30 pm and by appointment

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Office Hours: GUGG 312, Tues 1:00 - 2:00 pm and Fri 11:00 - 12:00 am and by appointment

LAB: Friday 9:00 - 10:50; GUGG 6 (KESDA Lab)

Lab Attendance and Grading Policies

- Lab assignments are worth 40% of your total course grade.
- There are 12 lab assignments in all.
- Lab assignments are due in lab the week after we have worked on them.
- Labs are due at the beginning of lab.
- Late labs will be deducted 25% for each week they are late.
- You are encouraged to work on your lab assignments together, but please ***be sure to put your answers in your own words and hand in your own assignment.***

Structure of Lab sessions

For the first part of each lab session we will have a review of the material that we have covered in class and the material that will be addressed in the lab. For the second part of lab we will briefly go over the computer setup and what is expected for the assignment. We will be using Environment for Visualizing Images (ENVI) software for most of the labs. While working on data in the KESDA Lab you should save data to the D: drive on your computer. The D: drive is accessible to anyone who uses the same computer as you so at the end of lab you should save your data to your flash drive/USB stick if you need the data.

Please come prepared, i.e. reading the day's assignment before you come to lab. I recommended bringing a calculator each week. You may also bring your lecture notes and textbook. Also, I encourage you to come by my office hours or email me if you having any problems. I check my email often, but please do not email me the night before a lab is due and expect me to get back to you in time.

Lab assignment schedule

Week	Date	Due Date	Lab No.	Lab
1	08-26-2011			NO LAB
2	09-02-2011	09-09-2011	1	The Basics
3	09-09-2011	09-16-2011	2	More basics and introduction to ENVI
4	09-16-2011	09-23-2011	3	Aerial photos and Satellite orbits
5	09-23-2011	09-30-2011	4	Landsat imagery, Change analysis
6	09-30-2011	10-07-2011	5	More Landsat, Assessing volcanic eruption damage
7	10-07-2011	10-21-2011	6	Effect of scan angle on pixel size
8				MID-TERM
9	10-21-2011	10-28-2011	7	SAR image Analysis
10	10-28-2011	11-04-2011	8	InSAR, Altimetry
11	11-04-2011	11-11-2011	9	Remote Sensing with EOS Satellites
12	11-11-2011	11-18-2011	10	Supervised Classification, Snow & Ice Cover
13	11-18-2011	12-02-2011	11	Vegetation Index, Unsupervised Classification
14				FALL BREAK
15	12-02-2011	12-02-2011	12	ENVI features
16				FINAL