

Dr. Paul Zenope Melcon
Spring Semester 2010

Office: 525 Butte
Hours: MW 9-11, TuTh 8:30-9:30

GEOG 318 Remote Sensing

Course Description

An introduction to the theory, techniques, data acquisition, processing, and presentation of digital imagery. The emphasis is applications allowing determination of earth surface characteristics using remotely sensed imagery. .

Course Prerequisites

GEOG 219 and GEOG 315 or faculty permission.

Course Materials

Required:Posted Readings on

<http://www.planetek.it>

http://www.ccrs.nrcan.gc.ca/resource/tutor/fundam/index_e.php

Planetek Short Course
Canada Center for Remote Sensing

Course Assignment

Assignments	6 @	15 points	90 points
Midterm Exam	2 @	30 points	60 points
Final Exam	1 @	45 points	45 points
Total			190 points

Grade Assignment

A	90%-100%
B	80%-89%
C	70%-79%
D	65%-69%
F	<65%

Assignments

Assignments will emphasize a specific remote sensing application.

Midterm and Final Exams

Two midterm examinations and a final examination will be given. The final exam will be comprehensive. The final and midterm exam formats may include multiple choice, short answer, matching, true/false, or essay. The final exam will be given on **Monday May 18 6:00--7: 50**. Early exams will not be given.

GEOG 418 Schedule

Week of		Canada Center for Remote Sensing Planetek	Exams and Assignments	Furlough days and holidays
January	25	CCRC 1.1-1.4 Electromagnetic spectrum PLANETEK 1, 2		27 Wednesday
February	1	CCRC 1.5-1.8 Interactions with atmosphere PLANETEK 3.1-3.5	Assignment 1	12 Friday and 15 Monday
	8	CCRC 2.1-2.6 Sensors and resolution PLANETEK 3.6-3.9		
	15	CCRC 2.7-2.16 Sensors, platforms, and satellites PLANETEK 4, 5	Assignment 2	
	22	Review	Exam	
March	1	CCRC 3.0-3.11 Microwaves		9 Tuesday and 22 Monday
	8	CCRC 4.1-4.2 Visual Interpretation PLANETEK 1, 2	Assignment 3	
	15			15 Monday-19 Friday Spring Break
	22	CCRC 4.3-4.4 Digital interpretation PLANETEK 6.1-6.6		
	29	CCRC 4.4-4.5 Preprocessing and filters PLANETEK 6.7	Assignment 4	31 Wednesday Cesar Chavez
April	5	Review	Exam	1 Thursday and 14 Wednesday
	12	CCRC 4.6 Rectification/transformations		
	19	CCRC 4.7 Classification PLANETEK 6.8	Assignment 5	
	26			
May	3	CCRC 4.8 Integration with GPS and GIS		4 Tuesday and 10 Monday
	10	CCRC 5.1-5.9 Applications PLANETEK 7	Assignment 6	
	17		Final Exam	Friday 8:00