

Dr. Paul Zenope Melcon
Spring Semester 2012

Office: 525 Butte
Hours: MW 3-4,
TuTh 9:00-9:30, 3:00-3:30

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

Readings posted:

<http://wizard.csuchico.edu:8092>

E-text: Principles of Remote Sensing, edited by Temppfli et. al., 2009, ISBN 978-90-6164-270.

E-text: Remote Sensing, Army Corps of Engineers, 2003.

Course Assignment

Quizzes	13 @	10 points	130 points
Assignments	13 @	10 points	130 points
Project	1 @	40 points	40 points
Final Exam	1 @	50 points	50 points
Total			350 points

Grade Assignment

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

Quizzes

The weekly assignments quizzes will examine lthe previous week's readings, lecture, and lab exercises. The quizzes will be given on Mondays.l

Project

The project will consist of an annotated remote sensing classification, including steps in the analysis and an evaluation of the final map.

Midterm and Final Exams

No midterm examinations and one final examination with 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 16 from 6:00—7:50.

GEOG 318 Schedule Spring 2012

Week of			Assignments	Holidays
January	23	2. Electromagnetic Energy		
	30	3. Spatial Referencing	Quiz on Monday	
February	6	4. Platforms and electro-optical sensors	Quiz on Monday	
	13	5. Visualization and radiometric operations	Quiz on Monday	
	20	6. Geometric operations	Quiz on Monday	
	27	7. Visual image interpretation	Quiz on Monday	
March	5	8. Spectral Signatures	Quiz on Monday	
	12	8. Digital image classification—unsupervised	Quiz on Monday	
	19	Spring Break		No Class—Spring Break
	26	9. Digital image classification—supervised	Quiz on Monday	31 Thursday Cesar Chavez
April	2	8. Digital image classification—supervised	Quiz on Monday	
	9	8. Accuracy assessment	Quiz on Monday	
	16	9. Aerial photography	Quiz on Monday	
	21	10. Active sensors and 12. Thermal remote sensing	Quiz on Monday	
	30	Project	Quiz on Monday	
May	7	Project		
	14	Final Exam	Exam—Project submitted	Monday May 14, 6:00pm