

GEOG 433 H (2-3) AREA III**REMOTE SENSING OF THE ENVIRONMENT**

Timetable

Lec 01	TR	10:00	ES 920
Lab 01	T	11:00	ES 407
Lab 02	M	13:00	ES 407

Catalogue # **3341**

Instructor

Greg McDermid

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Teaching Assistant

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Course Content:

Principles of earth resource analysis using digital images collected from instruments on airborne and spaceborne platforms. The full range of the electromagnetic spectrum currently used in remote sensing. Emphasis will be given to complementing conventional data and methods with automated techniques.

Description:

This course is designed to present the techniques and applications of digital image processing. Emphasis is on the use of satellite remote sensing data and methods in practical applications, including, image transformations and classification for identifying vegetation, geomorphic, geologic, and cultural features. Remote sensing is an increasingly useful information resource for managers and scientists, but data sources are becoming more varied and analysis techniques more complex. This course will provide a solid background in typical image processing techniques in lecture, laboratory, and project settings.

Blackboard: <http://blackboard.ucalgary.ca/>

Required Texts: Jensen, J. R., Introductory Digital Image Processing: A Remote Sensing Perspective, Third Ed., Prentice Hall.

Grading (Weighting)

Lab 1	5%	January 31
Lab 2	10%	February 14
Lab 3	10%	February 28
Lab 4	10%	March 14
Term Project		
Proposal	5%	February 28
Presentation	5%	April 7 – 14
Report	25%	April 23
Final Exam	30%	To be scheduled by the Registrar
Total	100%	

Note: It is not necessary to pass each course component in order to pass the course.

Prerequisite: Geography 333 or consent of the Department.

Grading System:

96-100	A+	77-80	B	59-61	C-
90-95	A	71-76	B-	55-58	D+
86-89	A-	65-70	C+	50-54	D
81-85	B+	62-64	C	0-49	F

Plagiarism

Academic dishonesty is not an acceptable activity at the University of Calgary and students are **strongly advised** to read the Student Misconduct section in the University Calendar. Quite often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are 1) presenting another student's work as your own 2) presenting an author's work or ideas as your own without proper referencing and 3) using work completed for another course. This activity will not be tolerated in this course and students conducting themselves in this manner will be dealt with according to the procedures outlined in the calendar.

Re: Posting of Grades and Picking-up of Assignments

- Assignments will be handed back only in class or by the Professor at pre-arranged time(s).
- To receive your assignment back via mail, please include an appropriately sized self-addressed, stamped envelope with your assignment when handing in to the professor.
- Posting of grades will be at the discretion of each Professor and, if posted, they will be scrambled. Grades will **not** be available at Geography's main office.

Contact Information for Student and Faculty Representation

- SU VP Academic Phone: 220-3911 and e-mail: suvpaca@ucalgary.ca
- SU Faculty Rep. Phone: 220-3913 and e-mail: socialscirep@su.ucalgary.ca

Campus Safewalk

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day, to any location on Campus including the LRT, parking lots, bus zones and University residences. Contact Campus Security at 220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your Campus destination.