

COURSE OUTLINE 2005 (FALL)

GEOGRAPHY 699.33 H(3-0) (AREA III)

REMOTE SENSING AND IMAGE PROCESSING

Timetable: FALL SESSION

Instructor

Greg McDermid

Office: ES 320

Phone: 220-4780

E-mail: Contact through Blackboard

Office Hours: By appointment

Course Assistant

Davor Gugolj

Office: ES 415

Phone: N/A

E-mail: Contact through Blackboard

Office Hours: M 11:00-1:00

Description: This course is designed to introduce the applications of remote sensing and techniques 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 the application of image processing techniques in lecture, laboratory, and project settings.

Grading – Fall 2005

Labs (6 x 6%)	36%	
Exam #1	30%	Lectures and Labs to date
Exam #2	10%	Comprehensive
Term Project		
Proposal	4%	
Project	14%	Group project (2 people/group)
Presentation	6%	
Total	100%	

Note: There is no registrar-scheduled final exam in this course. It is not necessary to pass each course component in order to pass the course.

Text: Jensen, J.R. 2005. Introductory Digital Image Processing, third edition. Prentice Hall.

Prerequisites: Consent of the department.

Additional Fees: N/A

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

Excerpt from: PLAGIARISM/CHEATING/OTHER ACADEMIC MISCONDUCT

A. Definitions

1. **Plagiarism** - essentially plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Most commonly plagiarism exists when:

- (a) the work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test)
- (b) parts of the work are taken from another source without reference to the original author
- (c) the whole work (e.g., an essay) is copied from another source, and/or
- (d) a student submits or presents work in one course which has also been submitted in another course (although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved.

While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence.

It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis or dissertation.

2. **Cheating** is an extremely serious academic offence. Cheating at tests or examinations includes but is not limited to dishonest or attempted dishonest conduct such as speaking to other candidates or communicating with them under any circumstances whatsoever; bringing into the examination room any textbook, notebook, memorandum, other written material or mechanical or electronic device not authorized by the examiner; writing an examination or part of it, or consulting any person or materials outside the confines of the examination room without permission to do so, or leaving answer papers exposed to view, or persistent attempts to read other students' examination papers.

3. **Other Academic Misconduct** - other academic misconduct includes, but is not limited to, tampering or attempts to tamper with examination scripts, class work, grades and/or class records; failure to abide by directions by an instructor regarding the individuality of work handed in; the acquisition, attempted acquisition, possession, and/or distribution of examination materials or information not authorized by the instructor; the impersonation of another student in an examination or other class assignment; the falsification or fabrication of clinical or laboratory reports; the non-authorized tape recording of lectures. All of these offences are extremely serious.

4. Any student who voluntarily and consciously aids another student in the commission of one of these offences is also guilty of academic misconduct.

B. Penalties

1. **Failing Grade** - a student may be given a failing grade in either an exercise or course in which that student is found guilty of plagiarism, cheating or other academic misconduct. Except in circumstances in which leniency is warranted, this penalty will only be applied in conjunction with one or other of the other penalties mentioned in this section. In situations in which a student is registered in a faculty other than that in which the course is given, this is the only penalty which shall be applied by the host faculty.

2. **Disciplinary Probation** - when a student is placed on disciplinary probation, he or she is entitled to proceed with a degree or other academic programme, but only on condition that the registration will be forfeited and the student suspended or expelled, if she or she is found guilty of a further academic offence. A student who is placed on disciplinary probation is eligible to continue in the faculty in the normal way after the satisfactory completion of his or her probationary period. This penalty shall be applied by the faculty in which the student is registered.

3. **Suspension** - suspension takes place when a student is denied registration within a degree or other academic programme for a specified period of time. A student who has been placed under

suspension is conditionally eligible to reapply for admission or registration at either the end of a specified period of time or thereafter. Suspension does not imply automatic readmission; a student must satisfy the dean and/or the faculty concerned of his/her eligibility for readmission. This penalty shall be applied by the faculty in which the student is registered.

4. Expulsion - a student who is expelled from a faculty is dismissed permanently from the faculty with no right to apply for readmission to that faculty. This penalty shall be applied by the faculty in which the student is registered.

5. Effects of Suspension or Expulsion from a Faculty - a student suspended or expelled from a faculty normally may not apply or be considered for readmission to the university in another faculty, until at least twelve months after the end of the session in which the academic offence takes place.

6. Expulsion from the university - if, upon suspending or expelling a student from a faculty, the dean and/or faculty determine that the severe sanction of expulsion from the University is warranted, such a recommendation may be made to the Vice-President (Academic) and Provost, who may act to expel the student from the University.

For complete document refer to: www.ucalgary.ca/secretariat

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: suypaca@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.