GEOGRAPHY FINAL COURSE OUTLINE: WINTER 2017
Geography 633
H(3-3)

Research and Applications in Remote Sensing

Section	Days	Times	Location
LEC01	TuTh	09:30am - 10:45am	ES 342
LAB01	Fr	1pm – 3:50pm	ES 415

Instructor: Torsten Geldsetzer	Office: ES 430
Telephone: Please email	Email: geldsetz@ucalgary.ca
Teaching Assistant: Sarah St. Germain	

Please note: The appropriate emergency evacuation assembly points for all classes taught in Earth Sciences is ICT Food Court.

Official Course Description:
Review of basic and advanced principles of image analysis; advanced laboratory techniques. Integration of remote sensing with GIS; current research in remote sensing. Project organization; data sources for remote sensing.

This seminar-based course examines the breadth of current research topics and techniques in remote sensing for Geographic applications. The topics and techniques will be examined in part through instructor and student led topic-of-interest lectures, lab assignments, and student led remote sensing journal article presentations. Lab exercises, to be held in ES 415, will explore the technical aspects of several major RS topics using remote sensing software.

Prerequisite: Consent of the Department

Supplementary Fees*: (field trips etc). N/A*

Grading (Weighted)

1. Laboratory Assignments: 3x10% each 30%

2. Presentation: Remote Sensing Topic of Interest 15%

3. Critical Review of Journal Article 5%

4. Project 40%

5. Class Participation 10%

There is no final exam for this course. It is not necessary to pass each course component in order to pass the course as a whole.

The only acceptable reasons for missing an examination or assignment in this class, as listed in the Deferral of Final Examinations section of the University of Calgary Calendar are illness, domestic affliction, or religious conviction. If you miss an assignment or examination, and you provide me with the appropriate documentation, you will have one opportunity to make arrangements for the missed work. Without appropriate documentation, you will receive a zero for that portion of your grade.

There is **no** final examination for this course

Reference Material:
No one textbook is required for this course. Numerous textbooks are available for overnight sign out from the Resource room. The Internet will serve as an invaluable resource for information in this course; published peer-reviewed journal articles will form the bulk of the sources for topics. There are, however, several textbooks that make for good general reference material. It would be advantageous for students to own or gain access to one or more of the following texts:

T. Lillesand et al.: Remote Sensing and Image Interpretation 7th ed. 2015.

R.A, Schowengerdt: Remote Sensing: Models and Methods for Image Processing 3rd ed. 2009.

J.R. Jensen: Introductory Image Processing: A Remote Sensing Perspective 4th ed. 2015.

J.R. Jensen: Remote Sensing of the Environment: An Earth Resource Perspective 2nd ed. 2006.

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

For additional detailed course information posted by the Instructor Desire2Learn at https://d2l.ucalgary.ca/d2l/home

USRI
At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference - please participate in USRI Surveys.

Writing across the Curriculum
Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their University courses and, where appropriate, members of faculty can and should use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Centre in the Effective Writing Office can be utilized by all undergraduate and graduate students who feel they require further assistance.

Principles of Conduct
The University of Calgary Calendar includes a statement on the Principles of conduct expected of all members of the University community (including students, faculty, administrators, any category of staff, practicum supervisors and volunteers) whether on or off the University's property. This statement applies in all situations where the members of the University community are acting in their University capacities. All Members of the University Community have a responsibility to familiarize themselves with this statement which is available at: http://www.ucalgary.ca/pubs/calendar/current/j-2.html

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. http://www.ucalgary.ca/honesty/plagiarism

Academic Accommodations:
It is the student's responsibility to request academic accommodations according to the university policies and procedures listed below. The student accommodation policy can be found at: www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf
Students needing an accommodation because of a Disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities. The procedure can be found at: www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf
Students needing an accommodation based on a Protected Ground other than Disability, should communicate this need, in writing, to the Instructor.

Freedom of Information and Protection of Privacy
FOIP: The Freedom of Information and Protection of Privacy (FOIP) legislation disallows the practice of having students retrieve assignments from a public place, e.g., outside instructor's office, the department office, etc. Term assignments will be returned to students individually, during class or during the instructor's office hours; if students are unable to pick up their assignments from the instructor, they provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

Re: Posting of Grades and Picking-up of Assignments
- All assignments will be handled through Blackboard or personally.
- Their own grades will be available to each student on Blackboard by password access. 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: arts1@ucalgary.ca

The students ombudsman office information can be found at:
http://www.su.ucalgary.ca/page/affordability-accessibility/su-structure/contact-info

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.