



**GEOGRAPHY FINAL COURSE OUTLINE: WINTER 2013**  
**Geography 633**  
**H(3-3)**  
**Research and Applications in Remote Sensing**

| Section | Days | Times         | Location |
|---------|------|---------------|----------|
| LEC01   | TuTh | 09:30 - 10:45 | EDC 154  |
| LAB01   | Fr   | 13:00 - 15:45 | ES 415   |

|                              |   |
|------------------------------|---|
| Instructor: Mryka Hall-Beyer | Office: ES 458  |
| Telephone: 403 220 6586      | Email: <a href="mailto:mhallbey@ucalgary.ca">mhallbey@ucalgary.ca</a> |

Please note: The appropriate emergency evacuation assembly points for all classes taught in Education Block is Scurfield Hall Atrium and 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 will explore the technical aspects of some of the major topics (see below) using state-of-the-art remote sensing software (PCI Geomatica and IDL/ENVI). Application-specific software, Web based tutorials and remotely sensed datasets will also be used.

**Prerequisite:** Consent of the Department

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

**Grading (Weighted)**

|                                    |            |     |
|------------------------------------|------------|-----|
| 1. Laboratory Assignments          | 3x13% each | 39% |
| 2. Presentations                   |            |     |
| Remote Sensing Topic of Interest   |            | 10% |
| Critical Review of Journal Article |            | 10% |
| 2. Project                         |            | 30% |
| 3. Class Participation             |            | 11% |

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 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 in the Geography Resource Room; most students will have a textbook from a previous remote sensing course. The Internet will serve as an invaluable resource for information in this course. There are, however, several textbooks that make for good general reference material. As such, it would be advantageous for students to own or gain access to one or more of the following texts:

**For additional detailed course information posted by the Instructor see Blackboard at:**  
<http://blackboard.ucalgary.ca/>

### 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  |

### Writing across the Curriculum

Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University believes 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 without express permission and modification guidelines from the instructor. 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>

### Disability Resource Centre Accommodations

If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 403-

220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.

### **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 both submitted and returned to students individually through logon to the course Blackboard site. All assignments must be submitted digitally.

### **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](mailto:suvpaca@ucalgary.ca)
- SU Faculty Rep. Phone: 220-3913 and e-mail: [arts1@ucalgary.ca](mailto: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.

**Academic program advice** This is a graduate course, a required part of a program regulated by the Faculty of Graduate Studies. Students with questions about their program and this course's place in it should consult their project supervisor, the graduate administrator in the Department of Geography, or the MGIS Program Director as appropriate. These people can also put you in touch with advice at the Faculty of Graduate Studies. The Faculty of Graduate Studies regularly emails information to all enrolled students concerning items of common interest to graduate students.