

**GEOG 633 H (3-3)****RESEARCH AND APPLICATIONS IN REMOTE SENSING**

<b>Timetable</b>	Lec #01	MW	8:00-9:20	ES 908	<b>Catalogue #</b>
	Lab #01	W	10:00-12:50	ES415	

**Instructor: Mryka Hall-Beyer**

Office: ES458

Office hours: T10-11h; W 15-16h

Phone: 220-6586

e-mail: mhallbey@ucalgary.ca

**TA (if applicable):**

Office:

Office hours:

Phone:

e-mail:

**Course Content** This seminar-based course will examine current research topics and techniques in remote sensing for geographical applications. These aspects will be examined in part through lectures, instructor and student led topic of interest presentations, lab assignments, and student led remote sensing journal article presentations. Classroom discussions of reading assignments and presentations comprise a critical component of the course. Lab exercises will explore the technical aspects of some of the major topics using primarily PCI Geomatica and IDL/ENVI.

**Major Topics**

- Review of Remote Sensing Fundamentals
- Advanced image processing techniques
- Remote Sensing Systems, Platforms and Sensors (Past, Present and Future)
- Research Topics and Geographical Applications in Optical, Thermal, Microwave Multispectral, Hyperspectral, Multitemporal, and Hypertemporal Remote Sensing

**Blackboard** <http://blackboard.ucalgary.ca/> Choose GEOG633L01 Research and Applications in Remote Sensing. Blackboard enrolment is automatic for everyone registered in the course.

**Required Texts:** None. Recommended text references will be listed on Blackboard.

**Grading (Weighting)**

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|--|---|-----|
| • term tests   | = | 15% |
| • Presentation of RS topic of interest                 | = | 10% |
| • Critical Review Presentation of a RS Journal Article | = | 10% |
| • Final paper  | = | 25% |
| • 4 Lab Assignments (5, 10, 10 and 15 % each)          | = | 40% |

There is no final examination for this course. Pass/fail will be determined by overall average, it is not essential to pass all elements to pass the course as a whole.

**Prerequisite:** 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 or without proper referencing and 3) using work completed for another course without prior arrangement and acknowledgement. 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 not submitted electronically will be handed back only in class.
- Posting of grades will be entirely electronic, accessible by password only. Grades will **not** be available at Geography's main office nor the MGIS office.

#### **Contact Information for Student and Faculty Representation**

- SU VP Academic Phone: 220-3911 and e-mail: [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)
- SU Faculty Rep. Phone: 220-3913 and e-mail: [socialsciirep@su.ucalgary.ca](mailto:socialsciirep@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.