



**GEOGRAPHY FINAL COURSE OUTLINE: FALL 2011**  
**GEOGRAPHY 305**  
**H(3-2)**

**Weather and Climate**

Section	Days	Time	Location
LEC 01	TuTh	14:00 - 15:15	ES 443
LAB 01	Tu	08:00 - 09:45	SS 018
LAB 02	We	11:00 - 12:45	SS 018

Instructor: John Yackel	Office: ES 408	Office hours: Wed 2:00-2:45 & Thurs 12:00-12:45	
Tel: 220 4892	Email: <a href="mailto:yackel@ucalgary.ca">yackel@ucalgary.ca</a>	Please put Geog 305 in subject heading	
Teaching Asst.	Samaneh Ebrahimi	Email: <a href="mailto:sebrahim@ucalgary.ca">sebrahim@ucalgary.ca</a>	

**Synopsis:**

This course covers basic principles of meteorology and atmospheric science with a focus on physical understanding of weather and climate phenomena. Lectures and labs will introduce the atmospheric and physical processes that underlie local, regional, and global weather patterns. We will introduce the concept of climate change and variability and the different natural and anthropogenic influences on Earth's climate.

**Prerequisite**

Geography 201 or 211

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

**Text(s)/Readings**

*Essentials of Meteorology*, 4<sup>th</sup> Ed. (2005), C.D. Ahrens. Thomson Brooks/Cole Publishing. This is on order at the bookstore. Used copies should be available, or an earlier edition of the text will work fine as well. The text is required.

Lecture notes and course announcements will be posted on blackboard (blackboard.ucalgary.ca)

**Supplemental Reference:**

*Meteorology Today: An Introduction to Weather, Climate, and the Environment*.  
7<sup>th</sup> Edition (2003), C. D. Ahrens, Brooks/Cole Publishing, Pacific Grove, CA.

*Understanding Weather and Climate*, 3rd Edition (2004), E. Aguado and J.E. Burt, Pearson Education Inc., Upper Saddle River, New Jersey.

*Meteorology and the Science of Weather* (1994), J.M. Moran and M.D. Morgan.

*The Weather Book, USA Today*, 2<sup>nd</sup> Edition (1995), J. Williams, Vintage Books, New York.

*Surface Climates of Canada* (1992), W.G. Bailey, T.R. Oke and W.R. Rouse, McGill-Queen's University Press, Montreal.

## Course Evaluation

<b>Grade Summary:</b>	Labs (seven)	35 %
	Quizzes (five)	20 %
	Final Exam	40 % (to be scheduled by the Registrar)

**Quizzes:** There will be five 15 to 20 minute in-class quizzes based directly on lecture material and reading assignments. These quizzes will occur at the start of the class. If you keep up with your weekly reading these will be relatively straightforward. Quizzes are worth 5% each, and I will take your best 4 of 5 results. **Unfortunately, there are no make-up quizzes offered for any reason.** All quizzes will be closed book.

<b>Quiz Dates:</b>	Quiz 1	September 29
	Quiz 2	October 18
	Quiz 3	November 3
	Quiz 4	November 24
	Quiz 5	December 8

**Labs:** There will be a series of eight labs, each worth 5% of your final mark. You will have 1-2 weeks to complete each lab exercise. Suren will be available in SS 018 for the lab periods. Lab exercises will be a blend of computer-based data analysis and desktop analysis of weather charts. While many of the exercises can be completed at home, you are encouraged to come to your lab period for help, and most of the exercises are designed to be completable within the two-hour time period. Individual written assignments are required for each lab. You are of course welcome to work on the lab assignments together, but your submissions must be your own, and of course, as always, do not plagiarize or there will be trouble ☹.

**Final Exam:** Cumulative, Closed book. Two hours. To be scheduled by the registrar.

### Late Policy:

Lab assignments are to be worked on individually and are due at the beginning of the lab sessions as indicated in the class schedule (see attached) and are to be handed in to the Teaching Assistant for the course. There are no exceptions and those assignments handed in late will be subject to an immediate 10% penalty followed by a 10% reduction in grade for each day thereafter (weekend and holidays included). Medical related circumstances will require a note from a physician.

### Grading Scheme:

A+	90-100	B+	77-79.9	C+	67-69.9	D+	57-59.9	F	0-49.9
A	85-89.9	B	73-76.9	C	63-66.9	D	53-56.9		
A-	80-84.9	B-	70-72.9	C-	60-62.9	D-	50-52.9		

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

### **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>

### **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 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 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](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.