
GEOG 305, Weather & Climate, Fall 2008

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| Timetable: | Lecture | Tues & Thurs | 14:00-15:15 | ES 443 |
| | Lab 01 | Tues | 08:00-10:00 | SS 018 |
| | Lab 02 | Weds | 11:00-13:00 | SS 018 |

Prerequisite: GEOG 201 or GEOG 211.

Instructor: John Yackel
Earth Science 408
E-Mail: yackel@ucalgary.ca
Office Hours: Mondays and Fridays from 9:00-9:50 or by appointment

If you cannot make office hours, don't hesitate to email to make an appointment.

TAs: Stephanie Lapka TBD
Surendra Adhikari adhikars@ucalgary.ca

Synopsis

We will cover 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 processes that underlie local, regional, and global weather patterns. We will discuss climate change and the different natural and anthropogenic influences on Earth's climate.

Text: *Essentials of Meteorology*, 4th 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 References

Meteorology Today: An Introduction to Weather, Climate, and the Environment.

7th 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, 2nd 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

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| Grade Summary: | Labs (eight) | – 40 % |
| | Quizzes (five) | – 20 % |
| | Final Exam | – 40 % (to be scheduled by the Registrar) |

Quizzes: There will be five 15-minute quizzes in class, 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 straightforward. Quizzes are worth 5% each, and I will take your best 4 of 5 results. All quizzes will be closed book.

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| Quiz Dates: | Quiz 1 | September 25 |
| | Quiz 2 | October 9 |
| | Quiz 3 | October 23 |
| | Quiz 4 | November 13 |
| | Quiz 5 | November 27 |

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. The TAs will be available in SS 18 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 booked by the registrar.

Please see the attached note on official university policy re: academic dishonesty. Lab or problem set submissions that are obviously copied from another student will not be tolerated, and will result in a mark of 0 for all involved.

Grading Scheme:

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| A+ | 94-100 | Outstanding performance |
| A | 87-94 | Excellent-superior performance; comprehensive understanding of subject |
| A- | 83-87 | ↑ |
| B+ | 79-83 | ↑ |
| B | 75-79 | Good – above average performance |
| B- | 70-75 | ↑ |
| C+ | 67-70 | ↑ |
| C | 63-67 | Satisfactory performance – basic understanding of the subject |
| C- | 60-63 | |
| D+ | 55-60 | |
| D | 50-55 | Minimal pass – marginal performance |
| F | < 50 | Fail – poor performance |

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

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.

Disability Resource Centre Accommodations

It is the student's responsibility to request academic 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.

Re: Posting of Grades and Picking-up of Assignments

- All assignments will be handles on Blackboard.
- 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: 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.