

DEPARTMENT OF GEOGRAPHY, COURSE OUTLINE – FALL 2016

GEOG 305  
Weather and Climate

Section	Days	Times	Location
LECO1	TuTh	14:00-15:15	ES 443
LAB01	Tu	08:00-09:50	SS 018
LAB02	We	11:00-12:50	SS 018

<b>Instructor:</b> Brent Else	<b>Office:</b> ES340
<b>Telephone:</b> 403-220-2484	<b>Email:</b> <a href="mailto:belse@ucalgary.ca">belse@ucalgary.ca</a>
<b>Office Hours:</b> Mo 15:00-16:00; We 14:00-15:00	

<b>Teaching Assistant:</b> Kristina Miller	<b>Office:</b> TBA
<b>Email:</b> <a href="mailto:kristina.miller1@ucalgary.ca">kristina.miller1@ucalgary.ca</a>	<b>Office Hours:</b> TBA

**Please note: The appropriate emergency evacuation assembly point for all classes taught in Earth Sciences is ICT Food Court, and Social Sciences is the Professional Faculties Food Court.**

**Official Course Description:**

Physical principles of meteorology and climatology. Weather development in relation to different scales of atmospheric circulation. Elements of synoptic and dynamic climatology as determinants of characteristics and the distribution of climates. Laboratory work emphasizes North American examples.

**Required Texts:**

*Meteorology Today: An Introduction to Weather, Climate, and the Environment*, 2<sup>nd</sup> Canadian Edition (2016). Ahrens, Jackson, & Jackson. Nelson Education. ISBN-13: 978-0-17-653079-2. On order at the bookstore.

**Grading (Weighting):**

***There is a final examination, to be scheduled by the Registrar's Office. It is not essential to pass all elements/components to pass the course as a whole.***

- Lab Assignments: 30% (6 assignments @ 5% each)
- Quizzes: 20% (4 quizzes @ 5% each)
- Midterm Exam: 20%
- Final Exam: 30% (Scheduled by registrar)

*Quizzes:* There will be four 20 minute in-class quizzes, based on lecture material and reading assignments. These quizzes will be at the start of the class. If you keep up with your weekly reading these will be straightforward. Quizzes are worth 5% each. All quizzes are closed book.

*Labs:* There will be a series of six labs, each worth 5% of your final mark. You have 1-2 weeks to complete each lab exercise. The lab TA will be available during the lab periods. Lab exercises are 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. Most of the exercises are designed to be completed within the two-hour time period. Individual written assignments are required for each lab. You are welcome to work on the lab assignments together, but your submissions must be your own, and of course, as always, do not plagiarize or it is an automatic 0 for all involved.

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

**Late Policy:** Assignments submitted after the stated deadline will be penalized with the loss of a grade of 10% for **each day** late (including weekends). Exceptions to this policy must be discussed and confirmed with the lead instructor **in advance of the due date**. If a student fails to complete an assignment or similar set piece of work for legitimate reasons (for example: illness or domestic affliction), an alternative course of action must be discussed with the lead instructor or course assistant in a timely fashion and documentation will be required as per the University Calendar.

**Grading System:**

94-100	A+	74-78	B	60-63	C-
86-94	A	70-74	B-	55-50	D+
82-86	A-	67-70	C+	50-55	D
78-82	B+	63-67	C	0-50	F

In this course, most assignments will be assessed using a rubric. Rubrics communicate expectations for course work, and provide a framework for assessment. This approach applies to the course as a whole, and students can expect letter grades to reflect the following criteria of achievement:

Grade	Criteria
F	Student cannot display a basic understanding of course materials
D	Student displays only a basic understanding of course materials
C	Student has a modest understanding of course materials, and can apply those understandings in basic problem solving.
B	Student has a good understanding of course materials, and can make connections between various course topics to solve interconnected problems.
A	Student has an excellent understanding of course material, and can solve problems not directly discussed in lectures/readings/assignments.

**Course Schedule:**

~ September 2015 ~							~ October 2015 ~						
S	M	Tue	Wed	Thu	F	S	S	M	Tue	Wed	Thu	F	S
				1	2	3	2	3	4 Lab 1 Due Lab 2 Intro	5 Lab 1 Due Lab 2 Intro	6	7	8
4	5	6	7	8	9	10	9	10	11 Lab 2 Work	12 Lab 2 Work	13	14	15
11	12	13 First Class	14	15	16	17	16	17	18 Lab 2 Due Lab 3 Intro <b>QUIZ 2</b>	19 Lab 2 Due Lab 3 Intro	20	21	22
18	19	20 Lab 1 Intro	21 Lab 1 Intro	22	23	24	23	24	25 Lab 3 Work	26 Lab 3 Work	27 MIDTERM	28	29
25	26	27 Lab 1 Work <b>QUIZ 1</b>	28 Lab 1 Work	29	30	1	30	31					
~ November 2015 ~							~ December 2015 ~						
S	M	Tue	Wed	Thu	F	S	S	M	Tue	Wed	Thu	F	S
		1 Lab 3 Due Lab 4 Intro	2 Lab 3 Due Lab 4 Intro	3	4	5					1	2	3
6	7	8 Lab 4 Work L16	9 Lab 4 Work	10 Reading	11 Days	12	4	5	6 Lab 6 Work <b>QUIZ 4</b>	7 Lab 6 Work	8 LAST CLASS	9 Lab 6 Due	10
13	14	15 Lab 4 Due Lab 5 Intro <b>QUIZ 3</b>	16 Lab 4 Due Lab 5 Intro	17	18	19	11	12	13	14	15	16	17
20	21	22 Lab 5 Work	23 Lab 5 Work	24	25	26	18	19	20	21	22	23	24
27	28	29 Lab 5 Due Lab 6 Intro	30 Lab 5 Due Lab 6 Intro				25	26	27	28	29	Notes:	

### **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. In this course, writing will be graded on assignments and the group project. Specific criteria for assessing writing will be provided for these assignments.

### **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](http://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](http://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.

**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>

**Re: Posting of Grades and Picking-up of Assignments**

- All assignments will be handled through D2L or personally.
- Grades will be available to each student on D2L by password access. Grades will **not** be available at Geography's main office.

**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.

**Faculty of Arts Program Advising and Student Information Resources**

- Have a question, but not sure where to start? The new Faculty of Arts Program Information Centre (PIC) is your information resource for everything in Arts! Drop in at SS110, call us at 403-220-3580 or email us at [artsads@ucalgary.ca](mailto:artsads@ucalgary.ca). You can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns.
- For program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at (403) 220-5881 or visit them in their new space on the 3rd Floor of the Taylor Family Digital Library.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at (403) 210-ROCK [7625] or visit them at the MacKimmie Library Block.

Contact for Students Union Representatives for the Faculty of Arts: [arts1@su.ucalgary.ca](mailto:arts1@su.ucalgary.ca), [arts2@su.ucalgary.ca](mailto:arts2@su.ucalgary.ca), [arts3@su.ucalgary.ca](mailto:arts3@su.ucalgary.ca), [arts4@su.ucalgary.ca](mailto:arts4@su.ucalgary.ca)