GEOGRAPHY FINAL COURSE OUTLINE: FALL 2020

GEOGRAPHY 308
GFC HOURS (3-2)

Climate and Ecosystems

<table>
<thead>
<tr>
<th>Section</th>
<th>Meeting time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEC 01</td>
<td>01</td>
<td>Web Based Course</td>
</tr>
<tr>
<td>LAB B01-B04</td>
<td>01</td>
<td>Web Based Course</td>
</tr>
</tbody>
</table>

Instructor: Brent Else
Office: ES 340
Telephone: 402 220 2484
Email: belse@ucalgary.ca

Official Course Description
Introduction to the Earth’s atmospheric environment (elements and controls of climate and their implications for hydrology, vegetation, and soils) and the nature and distribution of ecosystems and vegetation. Incorporates interactions between humans and their environment, especially those leading to global change on the decade to century time-scale.

Course Objectives
Students in this course will learn to:
1. Explain the various modes of energy transfer that occur at the Earth’s surface and throughout the atmosphere.
2. Understand atmospheric circulation, and how it is controlled energy transfers and the fundamental properties of air.
3. Explain the general circulation of Earth’s atmosphere, and its relationship to weather and climate patterns.
4. Explain and predict how climate patterns affect vegetation biomes, and how changes in climate lead to plant succession.
5. Use analytical techniques to study the state of the atmosphere and its dynamics.
6. Identify reliable sources of scientific information, and construct knowledge from primary sources.

Online Meeting Schedule

<table>
<thead>
<tr>
<th>Section</th>
<th>Meeting Time</th>
<th>Meeting Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEC 01</td>
<td>N/A</td>
<td>None – all asynchronous</td>
</tr>
<tr>
<td>LAB B01 – T04</td>
<td>N/A</td>
<td>None – all asynchronous</td>
</tr>
</tbody>
</table>

Course Learning Outcomes
The Department of Geography is committed to student knowledge and skill development. The table below lists the key learning outcomes for this course, the program-learning outcomes to which they contribute, and the expected level of achievement.

<table>
<thead>
<tr>
<th>Course Learning Outcomes</th>
<th>PLO(s)*</th>
<th>Level(s)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students should be able to explain basic atmospheric processes</td>
<td>1,2,5,7</td>
<td>2</td>
</tr>
<tr>
<td>Students should be able to explain interactions and feedbacks between the atmosphere and Earth’s surface</td>
<td>1,2,5,7</td>
<td>2</td>
</tr>
<tr>
<td>Students should be able to explain basic drivers of climate change</td>
<td>1,2,5,7</td>
<td>2</td>
</tr>
<tr>
<td>Students should be able to analyze atmospheric data and models</td>
<td>1,2,3,5,7</td>
<td>2</td>
</tr>
</tbody>
</table>
Students should be able to discriminate human vs natural drivers of climate change  

Student should be able to describe the major vegetation biomes, and how their geographic location is dependent upon weather and climate.  

Students should be able to explain plant succession, and its dependence upon weather and climate change.  

*PLOs = Program Learning Outcomes: 1 = reflect and communicate diverse human-environment perspectives, 2 = identify and explain human-environment processes, 3 = implement sampling, data collection, analyses and communication methods, 4 = analyze spatial and temporal aspects of human-environment systems, 5 = employ knowledge, arguments, and methodologies for solving human-environment problems, 6 = evaluate geospatial data and manipulate it to create cartographic products, 7 = communicate geographic concepts using oral, written, graphic, and cartographic modes, and 8 = demonstrate literacy skills.  

**Levels: 1 = Introductory, 2 = Intermediate, and 3 = Advanced.

Prerequisites: No prerequisites required.

Learning Resources

- This is an excellent textbook if you are interested in reading a little deeper on weather/climate issues. May also be relevant for GEOG 408. Any edition of this textbook would be helpful; should be able to find used copies.

Learning Technologies and Requirements
In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology.

- A computer with a supported operating system, as well as the latest security and malware updates
- A current and updates web browser
- Webcam (built in or external)
- Microphone and speaker (built in or external) or headset with microphone
- Broadband internet connection

Grading (Weighting)

<table>
<thead>
<tr>
<th>Assessments</th>
<th>Weighting</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm (75 min)</td>
<td>25%</td>
<td>Available: Oct 23 (12:00am) – submit by Oct. 23 (23:59pm)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
<td>Registrar Scheduled: Complete in 120 minutes</td>
</tr>
<tr>
<td>Lab Assessments (6 @ 7.5% ea)</td>
<td>45%</td>
<td>See course schedule</td>
</tr>
</tbody>
</table>

Exams: Exams will be administered online using D2L. The exam can be started any time within the 24 hour window, but you then must complete the exam in the allowed time limit. Exams are “open book”, but collaborating and/or discussing the exam with others, including students in the course, is forbidden by the University of Calgary Academic Misconduct Policy (https://ucalgary.ca/policies/files/policies/student-academic-misconductpolicy.pdf) and will be referred to the Faculty of Arts Dean’s Office for disciplinary action.
Labs: There will be 6 labs in this course, each worth 7.5% of your final mark. Learning for each lab will be assessed using a combination of quizzes and assignments. When assignments are required to be handed in, individual work must be submitted. Although students are permitted to collaborate on labwork for this course, each student must hand in an individual assignment that reflects their own work. Given the numerical nature of many of the assignments, this can lead to some confusion regarding plagiarism. In written questions, it is easy to ensure that responses are written “in your own words”. For mathematical problems, this can be more difficult; often there is only one correct approach to a question, and limited ways to express that approach in an assignment. In general, it is okay if two students hand in very similar answers to mathematical questions, provided they each did the work themselves. The line is actually quite clear: there should be no digital files transferred between students. Two students can be sitting next to each other working together (well, not sitting next to each other during COVID), but that should be done on two separate computers, working together on two separate documents. To make life easier on the TA marking your assignments, you may wish to format your documents differently to make it clear that two people did the work. All lab assignments must be submitted in a D2L compatible format (i.e. .pdf or .docx).

Grading System

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>96 – 100</td>
</tr>
<tr>
<td>A</td>
<td>90 – 95</td>
</tr>
<tr>
<td>A-</td>
<td>86 – 89</td>
</tr>
<tr>
<td>B+</td>
<td>81 – 85</td>
</tr>
<tr>
<td>B</td>
<td>77 – 80</td>
</tr>
<tr>
<td>B-</td>
<td>71 – 76</td>
</tr>
<tr>
<td>C+</td>
<td>65 – 70</td>
</tr>
<tr>
<td>C</td>
<td>62 – 64</td>
</tr>
<tr>
<td>C-</td>
<td>59 – 61</td>
</tr>
<tr>
<td>D+</td>
<td>55 – 58</td>
</tr>
<tr>
<td>D</td>
<td>50 – 54</td>
</tr>
<tr>
<td>D</td>
<td>0 – 49</td>
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</tbody>
</table>

Missed Course Assignments
If you miss one of the course assessments and have a legitimate excuse, email the professor or TA (depending on the course assessment you missed) as soon as possible.
- At the discretion of the instructor and department, accommodation such as a deferred exam may be offered.
- 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.

Supplementary Fees
None

For additional detailed course information posted by the instructor, visit the course Desire2Learn page online at https://d2l.ucalgary.ca/d2l/home.

SUPPLEMENTAL INFORMATION

Principles of Conduct
The University 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 university property. This statement applies in all situations where members of the university community are acting in their university capacities. All members of the university community have a responsibility to familiarize themselves with the principles of conduct statement, which is available at: www.ucalgary.ca/pubs/calendar/current/k.html.

Plagiarism, Cheating, and Student Misconduct
The University of Calgary is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect.
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 at: [www.ucalgary.ca/pubs/calendar/current/k-3.html](http://www.ucalgary.ca/pubs/calendar/current/k-3.html). 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 adequate citation, and (3) using work completed for another course. Such activities will not be tolerated in this course, and students suspected of academic misconduct will be dealt with according to the procedures outlined in the calendar at: [https://ucalgary.ca/policies/files/policies/student-academic-misconduct-procedure.pdf](https://ucalgary.ca/policies/files/policies/student-academic-misconduct-procedure.pdf)

**Instructor Intellectual Property**

**Freedom of Information and Protection of Privacy**
Freedom of Information and Protection of Privacy (FOIP) legislation in Alberta disallows the practice of having students retrieve assignments from a public place, such as outside an 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 must provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

**Human subjects**
Students in the course are not expected to participate as subjects or researchers when research on human subjects may take place

**Guidelines for Zoom Sessions**
Zoom is a video conferencing program that will allow us to meet at specific times for a “live” video conference, so that we can have the opportunity to meet each other virtually and discuss relevant course topics as a learning community.

To help ensure Zoom sessions are private, do not share Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published with the instructor’s permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith and respect (as per the Code of Conduct). When entering Zoom or other video conferencing sessions (such as MS Teams), you play a role in helping create an effective, safe and respectful learning environment. Please be mindful of how your behavior in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities. Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies (e.g. Student Non Academic Misconduct Policy). If participants have difficulties complying with this requirement, they should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your Zoom sessions visit: [https://elearn.ucalgary.ca/guidelines-for-zoom/](https://elearn.ucalgary.ca/guidelines-for-zoom/).

If you are unable to attend a Zoom session, please contact your instructor to arrange an alternative activity for the missed session (e.g., to review a recorded session). Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (for group work, presentations, etc.).
The instructor may record online Zoom class sessions for the purposes of supporting student learning in this class – such as making the recording available for review of the session or for students who miss a session. Students will be advised before the instructor initiates a recording of a Zoom session. These recordings will be used to support student learning only and will not be shared or used for any other purpose.

**Posting of Grades and Picking-up of Assignments**
Graded assignments will be returned by the instructor or teaching assistant personally during scheduled lecture or laboratory periods, unless they are made available electronically through the course D2L webpage. Grades and assignments will not be available at the Department of Geography’s main office.

**Academic Accommodations**
It is the student’s responsibility to request academic accommodations, according to the university policies and procedures listed in the University Calendar.

The student accommodation policy can be found at: https://www.ucalgary.ca/policies/files/policies/student-accommodation-policy_0.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: www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf.

Students needing an accommodation based on a protected ground other than disability should communicate this need, preferably in writing to their instructor or the Department Head (email: david.goldblum@ucalgary.ca).

**Copyright Legislation**
All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright https://www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright-policy.pdf and requirements of the copyright act (https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplines under the Non-Academic Misconduct Act.

**Wellness and Mental Health Resources**
The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness, and academic success and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support, or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, https://www.ucalgary.ca/wellnesscentre/services/mental-health-services) and the Campus Mental Health Strategy website (http://www.ucalgary.ca/mentalhealth/).

**Contact Information for Student and Faculty Representation**
- Student Union VP Academic 403-220-3911, suvpaca@ucalgary.ca
- Students Union Representatives for the Faculty of Arts – 403-220-3913, arts1@su.ucalgary.ca, arts2@su.ucalgary.ca, arts3@su.ucalgary.ca, arts4@su.ucalgary.ca
- Student Ombuds Office information can be found at: www.ucalgary.ca/ombuds/
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 station, 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.