

GEOGRAPHY FINAL COURSE OUTLINE: FALL 2020

GEOGRAPHY 500 GFC HOURS(3-0)

Critical Zone Science

| Section | Meeting time | Location |
|---------|--------------|------------------|
| LEC 01 | 01 | Web Based Course |

| | |
|---------------------------|---------------------------------------------------------------------|
| Instructor: Yvonne Martin | Office: ES 330 |
| Telephone: 403 220 6197 | Email: ymartin@ucalgary.ca |

Official Course Description

Examination of the Critical Zone, Earth's outer layer that extends from the top of vegetation to the bottom of the fresh groundwater zone. It is a constantly evolving boundary layer where rock, soil, water, air, and living organisms interact to regulate the landscape and natural habitats, and determine the availability of life-sustaining resources, including our food production and water quality.

Course Objectives

Students will be exposed to a range of interdisciplinary material considering the Critical Zone, Earth's outer layer that extends from the top of vegetation to the bottom of the fresh groundwater zone. A focus will be on understanding the complexity of earth systems and the interaction of different aspects of the Critical Zone. Student initiative in the learning experience will be emphasized.

Online Meeting Schedule

| Section | Meeting Time | Meeting Dates |
|---------|--------------|-------------------------|
| LEC 01 | N/A | None – all asynchronous |

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.

| Course Learning Outcomes | PLO(s)* | Level(s)** |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|
| Explain essential advanced concepts in Critical Zone Science | 2, 4 | 2,3 |
| Understand operation of the various processes operating in the Critical Zone (biology, soil, geomorphology, hydrology, climate etc.) | 2, 4 | 2,3 |
| Gain an appreciation and understanding of complex, interdisciplinary earth systems | 2, 4 | 2,3 |
| Write a term project that demonstrates original and critical thinking skills | 1,2,4,5,7,8 | 3 |
| Students should be able to apply their knowledge gained in this course to other undergraduate courses and their future workplace setting | 3, 7 | 3 |

**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

Prerequisite: 3 units from Geography 305, 307, 313, 408, 410 & 412.

Learning Resources

Montgomery, D.R., 2012. *Dirt: the erosion of civilizations*. Univ of California Press.

Course readings will include required readings (such as journal articles, book chapter readings, web site readings; information about access will be provided to students).

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
- MS Office
- Adobe Acrobat

Grading

| Assessment | Dates |
|-------------------------|------------------------------------------------------------|
| Lecture Test #1 (27.5%) | Available Oct 14 (9:00am) – must submit by Oct 15 (8:59am) |
| Lecture Test #2 (27.5%) | Available Nov 23 (9:00am) – must submit by Nov 24 (8:59am) |
| Lecture Test #3 (10%) | Available Dec 7 (9:00am) – must submit by Dec 8 (8:59am) |
| Course Project (35%) | See Course Schedule for due date |

- It is not essential to pass all components to pass the course as whole
- There is no final examination for this course.
- Lecture tests will be administered online with D2L. You will be given a 24-hour window to start the exams, but once you start you will have 120 minutes to complete the lecture tests and lab test.
- Lecture tests and lab tests are considered “open notes”, but collaborating and/or discussing the test 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-misconduct-policy.pdf>) and will be referred to the Faculty of Arts Dean’s Office for disciplinary action.

Grading System

| | | | | | |
|------------|----|------------|----|------------|----|
| 90 – 100 | A+ | 73 – 76.99 | B | 60 – 62.99 | C- |
| 85 – 89.99 | A | 70 – 72.99 | B- | 55 – 59.99 | D+ |
| 80 – 84.99 | A- | 67 – 69.99 | C+ | 50 – 54.99 | D |
| 77 – 79.99 | B+ | 63 – 66.99 | C | 0 – 49.99 | F |

Missed or Late Course Components

- If you miss a Lecture Test and possess a legitimate excuse, email Dr. Martin as soon as possible. At the discretion of the Course Instructor and Department, accommodation such as a deferred exam may be offered for a missed test.
- Unexcused late Course Project assignments will be penalized at 25% per day (or portion thereof) for that item (including weekends). Note that the penalty begins immediately after the official due date/time is missed.

Supplementary Fees

Not applicable

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. 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>

Instructor Intellectual Property

Information on Instructor Intellectual Property can be found at <https://www.ucalgary.ca/policies/files/policies/Intellectual%20Property%20Policy.pdf>

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

Not applicable

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/>.

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 disciplined 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, suypaca@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.