

GEOG 310 LEC01 Landforms and Soils

Winter 2024

Section	Days	Time	Location
LEC 01	MWF	10:00-10:50	HNSC 128
LAB B01	M	11:00-12:50	ES 307
LAB B02	W	08:00-09:50	ES 307
LAB B03	R	14:00-15:50	ES307
LAB B04	F	14:00-15:50	ES307
Instructor: Samantha Jones			
Office: ES 436			
Email: samantha.jones3@ucalgary.ca			
Email communication will be through your UCalgary email address.			
Office hours will be posted to D2L as part of the detailed course schedule when the course commences.			

The **Department of Geography** condemns the longstanding and continued injustices against those marginalized by racism, sexism, homophobia, transphobia, classism, xenophobia, able-bodied normativity, mental health profiling, and other forms of prejudice. We are pained by the fact that injustices are unevenly borne. <https://arts.ucalgary.ca/news/anti-racism-statement>

Territorial Acknowledgement

The Department of Geography would also like to acknowledge the traditional territories of the people of the Treaty 7 region in southern Alberta. The City of Calgary is also home to Métis Nation of Alberta, Region III. <https://www.ucalgary.ca/indigenous/cultural-protocol>

Official Course Description

Introduction to physical landscapes and soils, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers; and the fundamental concepts in soil science. Incorporates human modification of the Earth's surface.

Course Objectives

The primary objective of this course is to introduce and explain essential concepts of Earth surface and near-surface processes related to landforms and soils and their interactions with each other and the human environment.

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 concepts in geomorphology, geology, soil science and hydrology.	2,7	1
Connect foundational knowledge of landforms and soils to aspects of human (land use, climate change etc.)	1,2,4	1
Communicate concepts in landforms and soils in scientific writing skills.	7,8	1
Critically evaluate ideas/concepts in landforms and soils by integrating multiple information sources (eg. lectures, textbooks)	5,8	1
Interpret and create graphical representations of data	3,6,7	1,2
Apply quantitative methods to analyze processes in earth science	3,5,7	1

*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

There are no prerequisites for this course.

Note: Students taking this course should be comfortable using basic computer packages (e.g., MSOffice, in particular, Word and Excel).

Course Format

Unless government- and university-imposed public health measures are reintroduced, ALL classes and tutorials will be offered synchronously.

Learning Resources

Required Course Textbook:

Arbogast et al., Discovering Physical Geography, 1st Canadian Edition (e-book) (available at University of Calgary Bookstore) (Required)

Note: The Canadian Edition available at the University of Calgary Bookstore is the required edition; no other edition should be used.

Note: Additional course readings may include (but is not limited to) journal articles, web sites etc. (information about how to access other materials will be provided to students on D2L).

Important Dates

The last day to drop this course and receive a tuition fee refund is **January 18, 2024**. The last day to add or swap a course for Winter term 2024 is **January 19, 2024**. The **last day to withdraw** from this course is **April 9, 2024**. Please note that the University is closed on February 19, March 29, and April 1, 2024.

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

Grading (Weighting)

	Weight	Date
Midterm test 1 (in class)	15%	February 16
Midterm test 2 (in class)	15%	March 15
Labs (10 x 4%)	40%	Various
Final exam	30%	Scheduled by the Registrar

- If you miss a midterm test please inform the Instructor as soon as possible.
- In the event that a student misses a midterm due to illness, supporting documentation, such as a medical note or a statutory declaration may be required see: <https://www.ucalgary.ca/pubs/calendar/current/m-1.html>
- Please refer to <https://www.ucalgary.ca/registrar/registration/appeals/student-faq> for frequently asked questions concerning the provision of a medical note/statutory declaration.
- Lab due dates will be communicated throughout the semester. There are no late penalties for lab assignments, however, once a lab assignment has been graded and the grades posted, that assignment can no longer be handed in for credit.
- At the end of term, the lowest lab exercise grade will be replaced with the average score from the other nine labs.
- The final examination will be scheduled by the Registrar and held in a gymnasium.

Only pens/pencils and erasers are required for the tests and exam. No other materials or devices are allowed to be used. The midterm tests will take place during regular class time, in class, and will consist of a series of multiple choice questions. Each midterm test will focus on the material covered in lectures in that portion of the course, however, the concepts from each portion of the course build on the previous ones and as such there may be some synthesis style questions on the exams. Please also note that the activities completed in the lab sessions will explore concepts and topics mentioned in lecture in more detail, thus content and examples covered in the labs may also appear on the class midterms. The final exam will be two hours long and also will also consist of a series of multiple choice questions. The final exam will focus on the final portion of the course as well as cross cutting concepts from the entire course including lecture and lab content. It is **not** essential to pass all components to pass the course as whole. Lab exercises require a computer with internet connection and will including working with software like MS Word and Excel, Google Earth, etc. Computers in the lab (ES 307) are equipped with everything you will need to complete the lab exercises.

In this course, all missed midterm tests with valid excuses will be reweighted onto the course final exam. Missed lab exercises (with valid excuses) beyond the one replaced lab exercise grade described above, will be reweighted onto the final exam. In that case, the lab exercises used to calculate the average for the one replaced lab grade will exclude the excused missed exercise(s).

Grading System

96 – 100	A+	77 – 80	B	59 – 61	C-
90 – 95	A	71 – 76	B-	55 – 58	D+
86 – 89	A-	65 – 70	C+	50 – 54	D
81 – 85	B+	62 – 64	C	0 – 49	F

Flexible Grade Option (CG Grade)

Please see: <https://www.ucalgary.ca/pubs/calendar/current/f-1-3.html>

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

University of Calgary Academic Integrity Policy

Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. 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://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-procedure>

For students wishing to know more about what constitutes plagiarism and how to properly cite the work of others, the Department of Geography recommends that they attend Academic Integrity workshops offered through the Student Success Centre: <https://www.ucalgary.ca/student-services/student-success/learning/academic-integrity>

Instructor Intellectual Property

Information on Instructor Intellectual Property can be found at <https://www.ucalgary.ca/legal-services/university-policies-procedures/intellectual-property-policy>

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 **will not** be expected to participate as subjects or researchers when research on human subjects may take place.

Internet and electronic communication device information

There **are not** restrictions on the use of laptops and tablets in class if they are used to take notes or find information relevant to the class, and if there is no disturbance or distraction of other students or the instructor. Phones must be turned off during class, unless you have previously identified yourself to the instructor as a health care or law enforcement professional.

Referencing Standard

In written work presented in this class, the two accepted methods for referencing the work of others will be (1) Chicago

Manual of Style: <https://www.chicagomanualofstyle.org/home.html> or (2) American Psychological Association: <https://apastyle.apa.org/products/publication-manual-7th-edition>

Resources and Writing Support

Please note writing support resources provided by the Student Success Centre <https://ucalgary.ca/ssc/resources/writing-support> and the library <https://libguides.ucalgary.ca/guides/>

Exams & Deferrals

Exam deferrals are granted with a legitimate reason, e.g., illness and scheduling conflicts due to work and/or extra-curricular activities. Please inform the instructor in advance via e-mail or in person to reschedule.

<https://www.ucalgary.ca/registrar/exams>

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 and assignments cannot be dropped off at the Department 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/pubs/calendar/current/b-6-1.html>

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:

<https://www.ucalgary.ca/legal-services/university-policies-procedures/student-accommodation-policy>

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: freeman@ucalgary.ca).

Documentation for Absences or Missed Course Assessments

Students who are absent from class assessments (tests, participation activities, or other assignments) should inform the instructor as soon as possible. Instructors may request that evidence in the form of documentation be provided. If the reason provided for the absence is acceptable, instructors may decide that any arrangements made can take forms other than make-up tests or assignments. For example, the weight of a missed grade may be added to another assignment or test. For information on possible forms of documentation, including statutory declarations, please see

<https://www.ucalgary.ca/pubs/calendar/current/m-1.html>

Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright <https://ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy> and requirements of the copyright act at (<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.

Course evaluations and student feedback

Student feedback will be sought at the end of the course through the standard University Student Ratings of Instruction (USRI) and Faculty course evaluation forms.

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/>).

Students requiring assistance are encouraged to email the **Student at Risk line** if they or others appear to need wellness assistance: sar@ucalgary.ca For more immediate response, please call: 403-210-9355 and select option #2.

Gender Neutral Restrooms

There are gender neutral restrooms in the Hunter Student Commons (closest to lecture is HNSC 113W):

<https://ucalgary.ca/hunter-student-commons/gender-neutral-washrooms>

A list of gender neutral restrooms is available here: <https://www.ucalgary.ca/equity-diversity-inclusion/literacy-education/lgbtq2s-guide>

Sexual Violence Policy

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. Please see the policy available at

<https://www.ucalgary.ca/legal-services/university-policies-procedures/sexual-and-gender-based-violence-policy>

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/

Emergency Evacuation/Assembly Points

Assembly points for emergencies have been identified across campus. Assembly points are designed to establish a location for information updates from the emergency responders to the evacuees; from the evacuated population to the emergency responders. For more information, see the University of Calgary's Emergency Management website: <https://www.ucalgary.ca/risk/emergency-management>.

In case of emergencies and fire drills:

If you are in lecture in Hunter Student Commons: Muster Point is Taylor Family Digital Library (TFDL)

If you are in lab session in Earth Sciences: Muster Point is the ICT Food Court

Emergency evacuation maps and muster points: <https://www.ucalgary.ca/risk/emergency-management/evac-drills/assembly-points-and-evacuation-maps>

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 403-220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your campus destination.