

## GEOGRAPHY FINAL COURSE OUTLINE: FALL 2021

**GEOGRAPHY 410**  
**GFC HOURS (3-2)**  
**Process Geomorphology**

Section	Days	Time	Location
LEC 01	Web-based/Asynchronous	Not applicable	Not applicable
LAB 01	Mon 9:00AM – 10:50AM		ES 415
LAB 02	Wed 12:00PM – 1:50PM		ES 415

Instructor: Yvonne Martin	Office: ES 330
Email: <a href="mailto:ymartin@ucalgary.ca">ymartin@ucalgary.ca</a>	
Email communication will be through your UCalgary email address.	Office hours: TBA

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**

A systematic study of the physical processes that shape the Earth's surface. Emphasis is on the mechanics of geomorphic processes and their interaction with Earth materials.

#### **Course Objectives**

The primary objective of this course is to explain essential concepts of process geomorphology. Students will be introduced to processes, mechanics and morphology associated with landforms and landscapes over a range of spatial and temporal scales. Students will be equipped to apply the theoretical knowledge gained in this course to a variety of applied geomorphological concerns and their management.

#### **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 concept in geomorphology	2, 4	2, 3
Understand basic hydrological processes affecting geomorphic process operation	2, 4	2
Understand basic mechanics of key geomorphic processes	2, 4	2
Explain the processes and mechanics driving geomorphic systems, including sediment erosion, transport and deposition	2, 4	2, 3
Connecting the processes and mechanics of geomorphic systems to landform and landscape morphology and characteristics	2, 4	2, 3

Students will be expected to understand and solve quantitative problems associated with geomorphic systems by utilizing relevant equations	3, 7	3
Write assignments that report and analyze findings of lab exercises	3, 7	3
Students should be able to apply their knowledge gained in this course to other undergraduate courses and their future workplace setting	2, 5	2

\*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**

3 units from Geography 211, 310.

### **Course Format**

- The lecture component of this course is asynchronous. Students will listen to recorded lectures in their own time. For lectures, the expectation is that students will follow the dates for lecture topics provided in the Course Schedule to ensure that they do not fall behind in course work.  
Note: The Course Schedule will be provided on D2L web site for course in first week of lectures.
- Lecture Test dates and other test information are provided in other sections of the Course Outline.
- The lab component of the course consists of in-person sessions. Students are expected to remain in the lab room for the duration of each lab session to receive instructions given by the TA and to begin work on the lab with the TA available in the room for assistance (students will then complete the remainder of each lab exercise in their own time). The Course Schedule provides details about the dates that labs are presented and the due dates for lab assignments. The Lab Test will be written in-person in your lab section (as per the Course Schedule).

### **Learning Resources**

Required Textbook: Montgomery and Bierman, 2019, 2<sup>nd</sup> edition, Key Concepts in Geomorphology (available through the university bookstore)

Note: Additional course readings may include journal articles, web sites (information about how to access other materials will be provided to students as necessary).

### **Assessment Methods**

<b>Assessment and Weighting</b>	<b>Date</b>
Lecture Test 1 (75 minutes) 22.55%	Available: Thurs Oct 21 (9:00 am) – must submit by Fri Oct 22 (8:59 am)
Lecture Test 2 (75 minutes) 22.5%	Available: Thurs Nov 18 (9:00 am) – must submit by Fri Nov 19 (8:59 am)
Lecture Test 3 (50 minutes) 15%	Available: Tues Dec 7 (9:00 am) – must submit by Wed Dec 8 (8:59 am)
Laboratory Assignments 25%	See Course Schedule for lab dates
Laboratory Test 15%	Written in your lab section (see Course Schedule for dates)

- There is no final examination for this course.
- It is **not** essential to pass all components to pass the course as whole.

- Lecture Tests will be administered online with D2L. You will be given a 24-hour window to start each Lecture Test. But once you start, you will have 75 minutes to complete each of Lecture Test 1 and Lecture Test 2, and you will have 50 minutes to complete Lecture Test 3.
- Lecture Tests are considered “open notes”, but collaborating and/or discussing the tests with others (during the entire time period that the test is available), including students in the course and anyone else, is forbidden by the University of Calgary Academic Misconduct Policy and will be referred to the Faculty of Arts Dean’s Office for disciplinary action. (<https://ucalgary.ca/policies/files/policies/student-academic-misconductpolicy.pdf>)
- Additional Lecture Test rules and policies will be provided in advance of tests on D2L and must be followed.

### **Grading System**

95 – 100	A+	78 – 81.99	B	60 – 64.99	C-
90 – 94.99	A	74 – 77.99	B-	55 – 59.99	D+
86 – 89.99	A-	70 – 73.99	C+	50 – 54.99	D
82 – 85.99	B+	65 – 69.99	C	0 – 49.99	F

A+	4.00	Outstanding performance
A	4.00	Excellent performance
A-	3.70	Approaching excellent performance
B+	3.30	Exceeding good performance
B	3.00	Good performance
B-	2.70	Approaching good performance
C+	2.30	Exceeding satisfactory performance
C	2.00	Satisfactory performance
C-	1.70	Approaching satisfactory performance.
D+	1.30	Marginal pass. Insufficient preparation for subsequent courses in the same subject
D	1.00	Minimal Pass. Insufficient preparation for subsequent courses in the same subject.
F	0.00	Failure. Did not meet course requirements.

### **Flexible Grade Option (CG Grade)**

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

### **Additional Course Information**

- Students will be required to complete lab assignments. The lab assignments will cover a number of topics using a variety of methods and techniques. These assignments will also include written components (the scientific content of written answers and quality of writing will be considered when marking written answer questions).
- Unexcused late lab assignments will be penalized 20% per day, or portion thereof (incl. weekends).
- If you miss one of the course assessments (Lecture Test or lab assignment) and possess a legitimate excuse, email Dr. Martin (for Lecture Tests) or the TA (for lab assignments) as soon as possible. At the discretion of the Course Instructor and Department, accommodation such as a deferred test may be offered for a missed Lecture Test.
- In the event that a student misses a Lecture Test or the due date for a lab assignment due to illness, supporting documentation, such as a Statutory Declaration, may be requested. Please review the web page below for additional information. <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 Statutory Declaration.

**Exams & Deferrals**

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

**Supplementary Fees**

Not applicable

**Referencing Standard**

In written work presented in this class, the accepted method for referencing the work of others will be the Chicago Manual of Style: <https://www.chicagomanualofstyle.org/home.html>

**Important Dates**

The last day to drop this course and receive a tuition fee refund is **Thursday, September 16<sup>th</sup>, 2021**. The last day to withdraw from this course is **Thursday, December 9<sup>th</sup>, 2021**.

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

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

### **Posting of Grades and Picking-up of Assignments**

Instructions will be provided on D2L by the Course Instructor or Teaching Assistant regarding the handing in and returning of lab assignments and the posting of grades for term work components (i.e., Lecture Tests, lab assignments). Grades and assignments will not be available at the Department of Geography's main office and assignments cannot be dropped off 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/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/accommodation-students-disabilities-procedure>

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](mailto:freeman@ucalgary.ca)).

### **Use of internet and electronic devices in class**

Lecture Component: This section is not applicable for the lecture component of this course as lectures are asynchronous.

Lab Component: Students must refrain from using cell phones in lab sessions. Lab sessions are held in a room equipped with computers for students to use for lab exercises.

### **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, Google Earth

### **Timed Assessments for Online and Blended Courses**

- Dates and times for Lecture Tests are provided in the section Assessment Methods (see section in Course Outline).
- Students will be provided with a 24-hour window in which they can access and complete each timed online Lecture Test.
- The computer requirements listed in Learning Technologies and Requirements will apply to writing of online tests. Students will require access to the D2L site for this course for Lecture Test writing.
- Students should contact the Course Instructor if issues arise during a timed online Lecture Test that affect a student's ability to complete an assessment. Depending on the situation, a suitable contingency plan may be offered and may include (but is not limited to) additional time for completion of the assessment, or an alternative time to complete the assessment.
- An announcement will be made on D2L regarding available times for students to ask questions to the Course Instructor in advance of the 24-hour window for the Lecture Tests.
- The Course Instructor will be available to answer questions during the first hour of the 24-hour window for each Lecture Test.

### **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.

### **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.

### **Accessibility**

Students with specific needs relating to accessibility should contact the Course Instructor.

### **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/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy> 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/>).

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

### **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/policies/files/policies/sexual-violence-policy.pdf>

### **Contact Information for Student and Faculty Representation**

- Student Union VP Academic 403-220-3911, [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)
- Students Union Representatives for the Faculty of Arts – 403-220-3913, [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)
- Student Ombuds Office information can be found at: [www.ucalgary.ca/ombuds/](http://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. The Assembly Point for the Earth Sciences Building is the ICT Food Court. For more information, see the University of Calgary's Emergency Management website: <https://www.ucalgary.ca/risk/emergency-management>

### **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.