



COURSE OUTLINE
GEOG 376 PROCESS GEOMORPHOLOGY



We acknowledge and respect the lək̓ʷəŋən peoples on whose traditional territory the university stands and the Songhees, Esquimalt and WSÁNEĆ peoples whose historical relationships with the land continue to this day.

COURSE DESCRIPTION

This course follows the Introductory Geomorphology Course (GEOG 276). Here, you will dive into the processes that create and maintain landforms. You will learn about geomorphic systems, the fundamental forces behind geomorphic change, feedbacks, and process linkages in natural systems. You will explore the mechanics behind the creation and transport of sediment from hillslopes to low-lying coastal areas and the formation of characteristic erosional and depositional landforms. The course is divided into 4 major topics, including hillslope, fluvial, coastal + aeolian, and glacial processes. You will learn about traditional and more advanced research methods and apply some of these techniques in lab exercises.

LEARNING OUTCOMES

At the end of this course the students will be able to

- **Explain** the fundamental forces and feedbacks driving geomorphic processes on Earth
- **Apply** basic physical principles and quantitative relationships to solve geomorphic problems.
- **Use** a range of research tools and techniques relevant to process geomorphology.
- **Critically evaluate** scientific literature and assess evidence, methods, and interpretations in geomorphic research.

Office Hours: T 12:00 – 13:00 pm

Office Location: DTB B123a

Contact: ekwollatuvic.ca

Lecture: M Th 1:00 – 2:20 pm – Dr. Eva Kwoil

Lab Sections: B01 M 9:30 – 11:20 am

B02 M 2:30 – 4:20 pm

B03 T 9:30-11:20 am

This outline lists information for both the lecture (A01) and lab (B01-B03) portions. In order to receive a spot in a lab section, you must currently be enrolled in the lecture portion as well.

REQUIRED TEXTS

Throughout this course, I will provide a number of scientific articles and reading assignments that will be associated with lab materials.

RECOMMENDED TEXTS

For additional reading, I recommend this online resource:

Schroeder, J. (Editor in Chief) et al. (2013). Treatise on Geomorphology. Available online as html or PDF via Uvic Library E-book. ISBN: 978-0-12-398353-4. DOI: 10.1016/B978-0-12-374739-6.09021-7

Or:

Ritter, D.F., R.C. Kochel, and J.F. Miller (2011). Process Geomorphology (5/e). Waveland Press (ISBN 13: 978-1-57766-669-1).

This is a very comprehensive text book that was traditionally used in this class. It will be useful to prepare for exams or find additional literature, though this is not mandatory.

EVALUATION

Lab assignments	40%
Mid-term I	15%
Mid-term II	15%
Final Exam	30%

POLICIES

1. Labs:

- Lab assignments are an essential part of GEOG376. Students are required to **complete all assignments and obtain a passing grade** to obtain credit for this course.
- All details regarding labs & their marks are managed by your TA. Please attend only the section for which you are registered. Arrange with your TA if you can not attend a section.
- Software for spreadsheet analyses and graphing (e.g., MS Excel, Open Office, etc.) will be required for some labs. Additional software can be accessed via the Geomatics Labs.
- There is a 48-hour grace period from your assigned due date to submit all lab assignments completed outside of class time (no marks will be lost during the grace period). Except in cases where the instructor has previously approved a deferral, assignments submitted after the grace period will receive a grade of 0. Neither the teaching assistant nor the course instructor will answer questions about labs after the assignment due date.

2. Examinations:

- The Mid-terms will be held in the lecture rooms and during class time on the dates specified below.
- Exam attendance is mandatory. Exceptions will be made only under the following conditions:
 - I am informed in person before the exam that the absence will occur.
 - the student has proper written documentation of a serious medical or compassionate cause for the absence AND this documentation is provided either before or immediately after the exam;
 - see UVic Course Calendar for official university guidelines. Please feel free to contact me with any concerns.

3. Availability

- TAs and I will not be answering emails 24/7. Make sure that you address all questions regarding assignments or lecture material in time to receive a response within weekdays. No questions about labs will be answered during the grace period.

(Tentative) Lecture and Lab Schedule

	Week	Monday	Thursday	Lab Schedule	
1	Sept 8-11	Labour Day	Introduction	No labs	
2	Sept 14-18	Key Concepts	Topic 1	No labs	
3	Sept 21-25	Topic 1	Topic 1	Lab 1 – Landslide triggers (DTB A251)	
4	Sept 28- Oct 2	Topic 1	Topic 2	No Labs – Work week	
5	Oct 5-9	Topic 2	Topic 2	Lab 2: Arbutus Cove Slope Assessment (field trip, dress appropriately for the weather)	Lab 1 due (8%)
6	Oct 12-16	Thanksgiving	Midterm I	No Labs (Thanksgiving) – Work week	
7	Oct 19-23	Topic 2	Topic 2	Lab 3: Sediments and Critical Shear Stress (DTB B303)	Lab 2 due (8%)
8	Oct 26-30	Topic 2	Topic 3	Work week (DTB B303) – TA present	
9	Nov 2-6	Topic 3	Topic 3	Lab 4: Fluvial processes (Computer lab - DTB A251)	Lab 3 due (8%)
10	Nov 9-13	Reading Break	Topic 3	No labs	
11	Nov 16-20	Midterm II	Topic 4	Work week (A251) – TA present	Lab 4 due (8%)
12	Nov 23-27	Topic 4	Topic 4	Lab 5: Coastal (Computer Lab – DTB A251)	
13	Nov 30- Dec 4	Topic 4	Topic 4	Work Week (A251) – TA present	Lab 5 due (8%)

Topic 1: Hillslope Processes**Topic 2:** Fluvial Processes

Topic 3: Glacial Processes**Topic 4:** Coastal ProcessesLab Format:

1. Attend your lab section for an introduction to the topic (instructional meetings).
 - a. Please arrange with your TA if you need to miss a lab section to i) either attend a different lab section, or ii) meet your TA during their office hours.
2. Review your lab document and any posted material on Brightspace (bright.uvic.ca).
3. Complete lab activities.
4. Attend your lab's work block (non-instructional meetings) and your TA's office hours with questions.
5. Submit your assignment via virtual dropbox on Brightspace before the posted due date/time.

DISCLAIMER

The above schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances.

All lecture and lab material will be posted on brightspace.

Contact Computer Helpdesk with any technical issues:

Email: helpdesk@uvic.ca. Phone: **250-721-7687**

GRADING SYSTEM

Grade	Grade point value	Grade scale	Description
A+ A A-	9 8 7	90-100% 85-89% 80-84%	Exceptional, outstanding and excellent performance. Normally achieved by a minority of students. These grades indicate a student who is self-initiating, exceeds expectation and has an insightful grasp of the subject matter.
B+ B B-	6 5 4	77-79% 73-76% 70-72%	Very good, good and solid performance. Normally achieved by the largest number of students. These grades indicate a good grasp of the subject matter or excellent grasp in one area balanced with satisfactory grasp in the other area.
C+ C	3 2	65-69% 60-64%	Satisfactory, or minimally satisfactory. These grades indicate a satisfactory performance and knowledge of the subject matter.
D	1	50-59%	Marginal Performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.
F	0	0-49%	Unsatisfactory performance. Wrote final examination and completed course requirements; no supplemental.
N	0	0-49%	Did not write examination or complete course requirements by the end of term or session; no supplemental.

GEOGRAPHY DEPARTMENT INFO

- Geography Department website: <http://geog.uvic.ca>
- Undergraduate Advising: geogadvisor@uvic.ca
- Department Chair: Dr. David Atkinson geogchair@uvic.ca

PLAGIARISM

If you include external sources in your lab assignments you must use proper citation and follow good scientific practice. For more details on when and how to cite, please see:

<http://www.uvic.ca/learningandteaching/students/resources/expectations/>

The labs will involve group work, however each student must submit their own lab assignment. Penalties will be given for duplicated assignments.

Policy on Academic Integrity: <https://web.uvic.ca/calendar2020-01/undergrad/info/regulations/academic-integrity.html>

ACCESSIBILITY

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a documented disability/health consideration that may require accommodations, please feel free to approach me and/or the Resource Centre for Students with a Disability (RCSD) as soon as possible. The RCSD staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations <http://rcsd.uvic.ca/>. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

POSITIVITY AND SAFETY

The University of Victoria is committed to promoting, providing and protecting a positive and safe learning and working environment for all its members.

SEXUALIZED VIOLENCE PREVENTION AND RESPONSE AT UVIC

UVic takes sexualized violence seriously, and has raised the bar for what is considered acceptable behaviour. We encourage students to learn more about how the university defines sexualized violence and its overall approach by visiting uvic.ca/svp. If you or someone you know has been impacted by sexualized violence and needs information, advice, and/or support please contact the sexualized violence resource office in Equity and Human Rights (EQHR). Whether or not you have been directly impacted, if you want to take part in the important prevention work taking place on campus, you can also reach out:

Where: Sexualized violence resource office in EQHR; Sedgewick C119

Phone: 250.721.8021

Email: svpcoordinator@uvic.ca

Web: uvic.ca/svp

COURSE EXPERIENCE SURVEY (CES)

I value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the

department improve the overall program for students in the future. The survey is accessed online and can be done on your laptop, tablet, or mobile device. I will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.

NOTE:

A note to remind you to take care of yourself. Do your best to maintain a healthy lifestyle this semester by eating well, exercising, getting enough sleep and taking some time to relax. This will help you achieve your goals and cope with stress. All of us benefit from support during times of struggle. You are not alone.

Counselling Services - *Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students.* uvic.ca/services/counselling/

Health Services - *University Health Services (UHS) provides a full service primary health clinic for students, and coordinates healthy student and campus initiatives.* uvic.ca/services/health/

Centre for Accessible Learning - *The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations* uvic.ca/services/cal/. *The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.*

Elders' Voices - *The Office of Indigenous Academic and Community Engagement (IACE) has the privilege of assembling a group of Elders from local communities to guide students, staff, faculty and administration in Indigenous ways of knowing and being.* uvic.ca/services/indigenous/students/programming/elders/index.php