

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: GEOG 202

Number of Credits: 4 [Course credit policy \(105\)](#)

Course Full Title: Introduction to Geomorphology
 Course Short Title:

Faculty: Faculty of Social Sciences

Department (or program if no department): Geography and the Environment

Calendar Description:

This course builds on many topics introduced in GEOG 102, with emphasis placed on theoretical background of geomorphology, physical and chemical weathering, mass movements, structural geology, glacial geomorphology, and Aeolian processes. A weekend field trip will develop skills in landform analysis and an understanding of the geomorphology of southwestern British Columbia. Field trips outside of class time are required.

Prerequisites (or NONE): One of the following: GEOG 102, GEOG 103 or GEOG 116.

Corequisites (if applicable, or NONE):

Pre/corequisites (if applicable, or NONE):

Equivalent Courses (cannot be taken for additional credit)

Former course code/number:

Cross-listed with:

Equivalent course(s):

Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.

Transfer Credit

Transfer credit already exists: Yes No

Transfer credit requested (OREg to submit to BCCAT):

Yes No (Note: If yes, fill in transfer credit form)

Resubmit revised outline for articulation: Yes No

To find out how this course transfers, see bctransferguide.ca.

Total Hours: 75

Typical structure of instructional hours:

Lecture hours	39
Seminars/tutorials/workshops	
Laboratory hours	20
Field experience hours	16
Experiential (practicum, internship, etc.)	
Online learning activities	
Other contact hours:	
Total	75

Special Topics

Will the course be offered with different topics?

Yes No

If yes,

Different lettered courses may be taken for credit:

No Yes, repeat(s) Yes, no limit

Note: The specific topic will be recorded when offered.

Maximum enrolment (for information only): 25

Expected frequency of course offerings
 (every semester, annually, etc.): every semester

Department / Program Head or Director: Dr. Michelle Rhodes

Date approved: October 2014

Campus-Wide Consultation (CWC)

Date of posting: n/a

Faculty Council approval

Date approved: October 2014

Dean/Associate VP: Dr. Lucy Lee

Date approved: October 2014

Undergraduate Education Committee (UEC) approval

Date of meeting: November 21, 2014

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. identify and explain the basic geomorphic processes, using examples from southwestern British Columbia (e.g., mass movements, glacial processes).
2. apply, use, and draw conclusions based on field experience in a variety of landscapes
3. use practical skills in landform identification and mapping, problem solving, data presentation, and field observation and interpretation, commonly used by professional geoscientists.

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Instructional methods include lectures, laboratory sessions and assignments, assigned readings, out-of-class projects, and field trips. The lecture topics will emphasize conceptual and theoretical issues that are supplemented by the use of audio visual aids and related field experience.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download supplemental Texts and Resource Materials form)

<u>Author Surname</u> <u>Initials</u>	<u>Title (article, book, journal, etc.)</u>	<u>Current Edition</u>	<u>Publisher</u>	<u>Year Published</u>
1. Trenhaile, A.S.	Geomorphology: A Canadian Perspective, 2 nd Edition	<input checked="" type="checkbox"/>	Oxford Press	2004
2.		<input type="checkbox"/>		

Required Additional Supplies and Materials (Eg. Software, hardware, tools, specialized clothing)

In addition to basic laboratory supplies, students will be responsible for some minimal transportation and accommodation costs associated with the in-class field trip.

Typical Evaluation Methods and Weighting

Final exam:	35%	Assignments:	%	Midterm exam:	25%	Practicum:	%
Quizzes/tests:	%	Lab work:	%	Field trip report:	20%	Shop work:	%
Lab exercises	20%	Other:	%	Other:	%	Total:	0%

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

Typical Course Content and Topics**Lecture topics may include:**

1. Nature and scope of geomorphology
2. Brief history of geomorphology
3. Geologic history and geomorphology of southwestern British Columbia
4. Rocks, weathering, and sedimentation
5. Mass movements – physical conditions
6. Mass movements – types
7. Glacial processes and landforms
8. Aeolian processes and landforms
9. Karst landforms
10. Structural geology

Lab topics may include:

1. Mapping techniques
2. Statistical analysis of geomorphic data
3. Sediment analysis
4. Stratigraphy and structural geology
5. Mass movements
6. Glacial geomorphology
7. Aeolian geomorphology

Field trip: A two day field trip, through the eastern Fraser Valley and the Fraser Canyon to Clinton, B.C., will introduce students to a variety of geomorphic environments discussed in lectures with an emphasis on mass movements, and landforms and processes that are the a direct result of, or were conditioned by, glaciation.