



COURSE IMPLEMENTATION DATE: May 1994
 COURSE REVISED IMPLEMENTATION DATE: May 2014
 COURSE TO BE REVIEWED: May 2020
(six years after UEC approval) *(month, year)*

OFFICIAL UNDERGRADUATE COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
 Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

GEOG 202	Geography	4
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
Introduction to Geomorphology		
COURSE DESCRIPTIVE TITLE		

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: GEOG 102 or GEOG 103.
 COREQUISITES:
 PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: _____
- (b) Cross-listed with: _____
- (c) Cannot take: _____ for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 75

STRUCTURE OF HOURS:

Lectures:	<u>39</u>	Hrs
Seminar:	_____	Hrs
Laboratory:	<u>20</u>	Hrs
Field experience:	<u>16</u>	Hrs
Student directed learning:	_____	Hrs
Other (specify):	_____	Hrs

TRAINING DAY-BASED INSTRUCTION:

Length of course: _____
 Hours per day: _____

OTHER:

Maximum enrolment: 25
 Expected frequency of course offerings: Every semester
(every semester, annually, every other year, etc.)

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only) Yes No

WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) Yes No

TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: Yes No

Course designer(s): <u>Dr. Olav Lian / Claire Beaney</u>	Date approved: <u>October 3, 2013</u>
Department Head: <u>Dr. Michelle Rhodes</u>	Date of meeting: <u>October 11, 2013</u>
Campus Wide Consultation (CWC)	Date approved: <u>October 18, 2013</u>
Curriculum Committee chair: <u>Dr. David Fenske</u>	Date approved: <u>October 18, 2013</u>
Dean/Associate VP: <u>Dr. Lucy Lee</u>	Date of meeting: <u>November 22, 2013</u>
Undergraduate Education Committee (UEC) approval	

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.

METHODS: (*Guest lecturers, presentations, online instruction, field trips, etc.*)

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.

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Examination(s) Portfolio assessment Interview(s)

Other (specify):

PLAR cannot be awarded for this course for the following reason(s):

TEXTBOOKS, REFERENCES, MATERIALS: [*Textbook selection varies by instructor. An example for this course might be:*]

Trenhaile, A. S. 2004. Geomorphology: A Canadian Perspective. 2nd Edition. Oxford Univeristy Press, Canada.

SUPPLIES / MATERIALS:

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

STUDENT EVALUATION: [*An example of student evaluation for this course might be:*]

Laboratory exercises:	20%
Field trip report:	20%
Mid-term exam:	25%
Final exam:	35%

COURSE CONTENT: [*Course content varies by instructor. An example of course content might be:*]

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.