Geography 213
Simon Fraser University
Department of Geography
Fall Semester 2021

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INTRODUCTION TO GEOMORPHOLOGY

Geomorphology is the study of E surface. It is a crucial part of environmental and problem solving and has even been used to understand the far-off planets like Mars and Venus have evolved. This particular course is about E landscape, its present form, and the processes responsible for its large-scale organization. The goal is to provide students with an appreciation of how the landscape around them formed and its continued evolution with particular focus on landscapes of British Columbia, Western North America, and Canada.

In this course, we will seek answers to the following questions: How are mountains built? What controls topographic relief? How do landscape materials get from mountain tops down to valley floors? Can we differentiate between landscapes formed by rivers and glaciers? Has 570 million years of life on this planet affected the large-scale How have human activities affected the form of the landscape?

The course is recommended to students interested in Geography, Earth Science, Ecology, Environmental Science, Resource Management, and anyone who is curious about their natural surroundings. This course is required in several syllabi (Environmental Geoscience, Geology and Geochemistry) for Professional Geoscience (P. Geo.) accreditation by Engineers and Geoscientists, British Columbia (EGBC).

Prerequisites
GEOG 111 (Earth Systems), EASC 101 (Dynamic Earth), or permission from the instructor.

Required Text
Bierman, P.R. and D.R. Montgomery (2020) Key Concepts in Geomorphology, W.H. Freeman and Company Publishers New York, 591p.

Course Format
This course will consist of a weekly two-hour lecture and 6 two-hour laboratories where you will apply the concepts learned in lectures. There will be no laboratory session in the first week of classes.

Field Trip
There is a ***mandatory virtual field trip*** to complement topics covered in