douglas college **Course Information**

A: Division: ACADEMIC DATE:

B: Department: SOCIAL SCIENCES New Course:

Revision of Course information form: X

DATED: NOVEMBER 6, 1991

C: GEOGRAPHY 220 (Subject & Course No.) D: GEOMORPHOLOGY (Descriptive Title) E: 3 (Semester Credit)

F: Calendar Description:
The focus of this course is on the nature and origin of the Earth's land surface. Earth materials, landform types and landform distributions are examined in terms of the processes, physical laws, and theories which may account for their development.

Summary of Revision:
(Enter date & section)
Ex: Section C,E,F, & R

C,D,H

G: Type of Instruction: Hours Per Week/

Lecture	4	Hrs.
Laboratory		Hrs.
Seminar		Hrs.
Clinical Experience		Hrs.
Field Experience		Hrs.
Practicum		Hrs.
Shop		Hrs.
Studio		Hrs.
Student Directed Learning		Hrs.
Other		Hrs.
TOTAL	4	HOURS

H: Course Prerequisites:
GEOG/GEOL 120

I: Course Corequisites:
NIL

J: Course for which this course is a pre-requisite
NIL

K: Maximum Class Size:
35

M: Transfer Credit:
Requested X
Granted
Specify Course Equivalents or Unassigned Credit as Appropriate

U.B.C. GEOG 205 (1.5 units)
S.F.U. GEOG 213 (3 credits)
U. Vic.GEOG 203A (1.5 units)
OTHER:

L: College Credit Transfer X

College Credit Non-Transfer

S R Smythe
COURSE DESIGNER(S)

DIVISIONAL DEAN

DIRECTOR/CHAIRPERSON

REGISTRAR

N: Textbooks and materials to be Purchased by Students (Use Bibliographic Form):

An introductory geomorphology text, such as:
Selby, M.J. Earth's Changing Surface: An Introduction to Geomorphology, 1985. Oxford: Clarendon Press.
and a lab manual such as:
Brook, G. and R.J. Heyl, Introduction to Landforms: A Laboratory Manual, 1979. Oxford: Contemporary Publishing Company.
to be selected by the instructor subject to approval by the discipline.

The texts will be updated periodically.

Complete Form with Entries Under the Following Headings:

O. Course Objectives; P. Course Content; Q. Method of Instruction;

R. Course Evaluation

O. COURSE OBJECTIVES

By the end of the course, the student will be able to:

1. Describe fluvial, eolian, coastal and glacial landforms, and use topographic maps and aerial photographs to identify and study them.

2. Describe geomorphic processes in periglacial, semi-arid, humid-temperate and tropical environments.

3. Use basic quantitative methods to describe geomorphic processes.

4. Use maps and analytic methods to complete a term paper describing the landforms, geomorphic processes and geomorphic history of a specific physiographic region of North America.

P. COURSE CONTENT

1. History and Methodology of Geomorphology
2. Structural Geomorphology
   a) Plate tectonics and global scale landforms
   b) Structural geomorphology of deformed rocks
3. Process Geomorphology
   a) Rocks and weathering
   b) Slope processes
   c) Hydrology
   d) Fluvial processes and landforms
   e) Periglacial and glacial processes and landforms
   f) Coastal and eolian processes and landforms
   g) Geomorphic change

Q. METHOD OF INSTRUCTION

The presentation of information will be by means of lectures, field work, labs and lab demonstrations. Audio-visual material will be incorporated as necessary.

R. COURSE EVALUATION

The evaluation will be carried out in accordance with Douglas College policy and will include a suitable combination of the following factors.

1. Tests/examinations with a combined value of up to 50%.

2. A series of no fewer than 5 objective tests with a combined value of up to 25%.

3. Lab work with a combined value of up to 50%.

4. Field work with a value of up to 20%.

5. A term project or paper with a value of up to 25%.

At the beginning of the semester the instructor will present the students with the evaluation procedure to be used.