

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: PHYSICAL GEOLOGY (GEOMORPHOLOGY)

Code No.: GEO 115-4

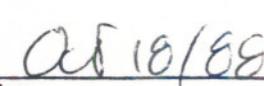
Program: GEOLOGICAL TECHNICIAN AND WATER RESOURCES TECHNOLOGY

Semester: I I

Date: OCTOBER, 1988

Author: MANFRED ENGEL

New: _____ Revision: X

APPROVED:  
Chairperson Date

GEOLOGY AND WATER RESOURCES
GEO 115-4

GEMORPHOLOGY

CALENDAR DESCRIPTION

PHYSICAL GEOLOGY (GEMORPHOLOGY)

GEO 115-4

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

This course is to introduce students to the fundamental principles governing the evolution and structure of the earth.

METHOD OF ASSESSMENT (GRADING METHOD):

An average grade of 60% is required to pass this course. There are four written tests of equal value (25% each).

A student at the end of the course with an average grade between 50% and 60% will be allowed to write a supplementary exam.

GRADING:

A+ - 90% or better
A - 80% - 89%
B - 70% - 79%
C - 60% - 69%

TEXTBOOK(S):

1. The Earth: An Introduction the Physical Geology, by Tarbuck and Lutsgen.
2. Laboratory Manual in Physical Geology by Tasa and Bates.

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HOURS	TOPIC
4	1 <u>Introduction</u> a) Geology and other Sciences b) An introduction to physiographic terms c) The Dynamic Earth
2	2 <u>Matter and Minerals</u> a) Minerals and their properties b) Mineral groups
10	3 <u>Igneous Rocks</u> a) Crystallization of a Magma b) Naming of Igneous Rocks c) Occurrence of Igneous Rocks d) Volcanic Activity
4	4 <u>Weathering and Soil</u> a) Weathering b) Soil
6	5 <u>Sedimentary Rocks</u> a) Types of Sedimentary Rocks b) Classification c) Sedimentary Environments and Structures
9	6 <u>Running Water</u> a) The Hydrologic Cycle b) Stream flow c) Stream Erosion d) Transport and Deposition of Sediment e) Stream Valleys f) Drainage Networks
6	7 <u>Groundwater</u> a) The Water Table b) Porosity and Permeability c) Movement of Groundwater
4	8 <u>Shoreline</u> a) Waves and Erosion b) Shoreline Features c) Shoreline Erosion Problems