DOC. #58

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: _____ Oct 10/88
Chairperson Date

GEOLOGY AND WATER RESOURCES
GEO 115-4

GEOMORPHOLOGY

CALENDAR DESCRIPTION

PHYSICAL GEOLOGY (GEOMORPHOLOGY)	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.

GEOLOGY AND WATER RESOURCES
GEO 115-4
GEOMORPHOLOGY

HOURS		TOPIC
4	1	Introduction a) Geology and other Sciences b) An introduction to physiographic terms c) The Dynamic Earth
2	2	Matter and Minerals a) Minerals and their properties b) Mineral groups
10	3	Igneous Rocks a) Crystallization of a Magma b) Naming of Igneous Rocks c) Occurrence of Igneous Rocks d) Volcanic Activity
4	4	Weathering and Soil a) Weathering b) Soil
6	5	Sedimentary Rocks a) Types of Sedimentary Rocks b) Classification c) Sedimentary Environments and Structures
9	6	Running Water a) The Hydrologic Cycle b) Stream flow c) Stream Erosion d) Transport and Deposition of Sediment e) Stream Valleys f) Drainage Networks
6	7	Groundwater a) The Water Table b) Porosity and Permeability c) Movement of Groundwater
4	8	Shoreline a) Waves and Erosion b) Shoreline Features c) Shoreline Erosion Problems
45		