

Revised
Jan '87

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

COURSE OUTLINE

Course Title: PHYSICAL GEOLOGY
Code No.: GEO 122-3
Program: GEOLOGICAL ENGINEERING TECHNICIAN
Semester: TWO
Date: JANUARY, 1984
Author: J. GIGUERE

New: _____ Revision: X

APPROVED: _____
Chairperson Date

CALENDAR DESCRIPTION

PHYSICAL GEOLOGY

GEO 122-3

COURSE NAME

COURSE NUMBER

METHOD OF ASSESSMENT (GRADING METHOD):

SEMESTER PASS = 60% - 69% = C
70% - 79% = B
80% + = A

Final grade is based on an average of all written tests. There will be three tests in this course.

A supplemental exam will be available after semesters and for those with an average between 50% and 59%. Below 50% is an R grade after all possible tests.

TEXTBOOK(S):

The Dynamics of the Earth - Spencer

REFERENCES:

Physical Geology - Longwell, Flint, Sanders

Principles of Geology (Thrid Ed.) - Gilluly, Waters and Woodford

Elements of Geology - Zumberge

Physical Geology - Leet and Judson

PHYSICAL GEOLOGY
GEO 122-3

TOPIC	HOURS	TOPIC
1	8	<u>Metamorphism</u> a) Definitions b) Factors in metamorphic processes c) Contact metamorphism d) Regional metamorphism e) Metamorphic Facies f) Chemical Classes of Metamorphic Rocks g) Principles of equilibrium
2	8	<u>The Oceans</u> a) The ocean basins b) Physical oceanography c) Environments at the margins d) The ocean floors
3	22	<u>Landscapes</u> a) Gradation of the earth crust b) Gravity movements c) Hydrological activity i) surface water ii) ground water d) Wind e) Glaciation
4	20	<u>Structure of the Earth</u> a) Major crustal structure b) Faulting and orogeny c) Folding d) Continental shields e) Continental margins
5	2	<u>Geological Time Scale</u>

60