SAULT COLLEGE of Applied Arts and Technology Sault Ste. Marie



COURSE OUTLINE

FHYSICAL GEOLOGY 7 (22 - 3 GEO 112-4

revised December, 1981 by M. Engel

PHYSICAL GEOLOGY

GEO 112-4

TEXT:

The Dynamics of the Earth - E. W. Spencer

REFERENCE TEXTS:

Physical Geology - Longwell, Flint, Sanders Introduction to Geology - Read, Watson Principles of Geology - Gilluly, Waters, Woodford Physical Geology - Leet & Judson

Topic	Periods	Topic Description Referen
1	3	Introduction
		- Geology - definition & origin of subject - Relationship with other fields of scient - Significance of Geology today - Geology - A preview - Modern concepts
2	3	Minerals - The Building Blocks of the Earth's Crust
		minerals as chemical compoundsmineral groupsimportant rock forming minerals
3	16	Igneous Rocks
		 introduction igneous activity Magam - definition, origin, migration & emplacement Composition (chemical) & physical characteristics Lavas - definition, origin, migration & emplacement Composition (chemical) & physical characteristics
4	6	Weathering
		mechanical weatheringchemical weatheringsoils
5	14	Sedimentary Rocks
		- definition of sediments & sedimentary rocks - source of sediments - transportation - air - water (suspended & in solution - ice - deposition - marine - lacoustrine - fluvial
		- terrestrial - classification of sediments - clastic - chemical precipit - organic
		 compaction and lithification significance and use of fossils for geological interpretation

Topic	Period	Topic Description Reference
6	12	Metamorphic Rocks
		- definition of metamorphism - contact metamorphism - temperature &
7	6	The Earth's Crust
		 continents, oceans, continental margins continental drift earthquake belts isostasy