SAULT COLLEGE of Applied Arts and Technology Sault Ste. Marie

COURSE OUTLINE

PHYSICAL GEOLOGY I

GEO 112-¥3

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 Reference
1	3	Introduction
0		- Geology - definition & origin of subject - Relationship with other fields of science - Significance of Geology today - Geology - A preview - Modern concepts
2	3	Minerals - The Building Blocks of the Earth's Crust
		 minerals as chemical compounds mineral groups important 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 precipita - organic
#		 compaction and lithification significance and use of fossils for geological interpretation

			AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
Topic	Period	Topic Description Res	ference
6	12	Metamorphic Rocks	
0		- definition of metamorphism - contact metamorphism - temperature	oncepts
		- regional metamorphism - temperature pressure of typical restructures - rock textory types and	concepts ock s ures,
		- relation granitiza	to tion
		 classification of metamorphic rock migmatites relationship of metamorphic rocks intrusive and structural deformat metasomatism 	to
7	6	The Earth's Crust	
6		 continents, oceans, continental m continental drift earthquake belts isostasy 	argins