

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

COURSE OUTLINE

Course Title: SOIL MECHANICS AND HIGHWAY ENGINEERING
Code No.: ARC 231-3
Program: CIVIL CONSTRUCTION
Semester: THIRD
Date: MAY 18, 1983
Author: W. R. DAVIES

New: _____ Revision: X

APPROVED:

J.P. Crozitto
Chairperson

Date

SOIL MECHANICS AND HIGHWAY ENGINEERING

Course Name

ARC 231

Course Number

PHILOSOPHY/GOALS:

1. To relate the nature of the earth's crust to the civil engineering requirements made upon it.
2. To appreciate the technology both current and potential of highway transportation.
3. To understand the attempt at rationalizing storm behaviour.
4. To become skilled in developing, propounding and defending an engineering procedure.
5. To achieve the above goals in a practical environment using an individualized instruction method.

METHOD OF ASSESSMENT:

<u>UNIT</u>	<u>GRADE ALLOCATION %</u>
1. Site Investigation (field work)	1
2. Site Investigation (laboratory work viz grain analysis or Atterberg limits)	10
3. Proctor Test	10
4. Unconfined Compressor Test	10
5. Bearing Value Test	10
6. Highway Alignment	5
7. Highway Pavement Design	10
8. Bulk Excavation Project	25
9. Drainage Design	10

TEXTBOOK:

Construction Methods and Management - Nunally