

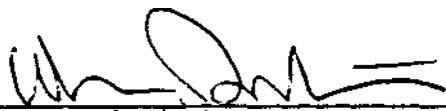
SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY  
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: SURVEYING  
Code No. SUR 236-3  
Program: WATER RESOURCES ENGINEERING TECHNOLOGY  
Semester: IV (1988 SUMMER)  
Date: MAY, 1988  
Author: JOHN K. THEIL

New:                      Revision: X

APPROVED:

  
\_\_\_\_\_  
Chair<sup>^</sup>rson

Date

l^-^yi^/eg-

SURVEYING

SUR 236-3

Course Name

Course Number

P^IIHOSOPHY/GOALS ;

The surveying course is designed to familiarize the student with the basic surveying principles and to provide field practice in the use of surveying instruments and the application of surveying methods. Emphasis is placed on surveying techniques uniquely inherent to water resource management.

METHOD OF ASSESSMENT (GRADING METHOD);

Assignments	40%
Interim Test	20%
Final Examination	40%

GRADING

A+ 90-100%    A 80-89%    B 70-79%    C 60-69%

A passing grade will be based on a composite grading of 60%. Students obtaining a composite grading of 55-59% may be allowed to complete a supplementary examination.

TEXTBOOK(S);

Surveying Notes, Sault College - Campus Bookstore

TOPIC NO.	NO. OF HOURS	TOPIC DESCRIPTION
6		<u>LINEAR MEASUREMENT</u> Terms and definitions, units of linear measurement, conversions, methods of measuring distances, steel tapes taping methods, notekeeping, reduction of field notes, errors and mistakes in taping, establishing a pacing standard, modern electronic distance meters.
6		<u>TRAVERSE SURVEYING</u> Types of traverses, angular closures methods of traversing, stationing, mistakes and errors in traverse surveys latitudes and departures, standards of accuracy , coordinates of points in a survey.
12		<u>TOPOGRAPHIC MAPPING</u> Freehand lettering, plotting traverse data with protractor and scale, plotting coordinates, plotting irregular boundaries, plotting topographic detail mapping from field notes.
9		<u>STADIA SURVEYING</u> Definitions, theory of stadia surveying the applications and limitations of stadia surveying, notekeeping, reduction of stadia field notes, plotting stadia topography
6		<u>FIELD EXERCISES</u> Transits and tape traverse survey, stadia survey.