

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

COURSE OUTLINE

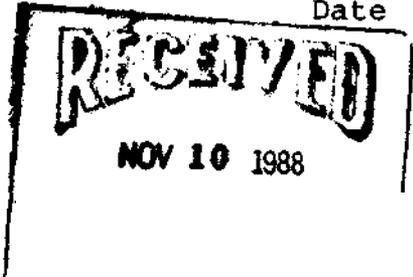
Course Title: SURVEYING
Code No. SUR 120-3
Program: WATER RESOURCES ENGINEERING TECHNOLOGY
Semester: TWO (19 89 WINTER)
Date: NOVEMBER, 19 88
Author: JOHN K. THEIL

New:

Revision:

APPROVED:


Chairperson _____ Date H[^]'It.



CALENDAR DESCRIPTION

SURVEYING

SUR 120-3

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS :

To introduce the student to basic surveying principles. The topics covered will be measurements, levelling theory and practice, and angular measurements and direction.

METHOD OF ASSESSMENT:

Assignments	40%
Interim Test	20%
Final Examination	40%

GRADING:

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

A pass 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

SUR 120-3

TOPIC NUMBER

TOPIC INFORMATION

GENERAL

Introduction, definitions of surveying types, kinds and purposes of surveys, kinds of surveying measurements, accuracy and precision of measurements, errors and mistakes.

LEVELING

Introduction to leveling, methods of measuring differences in elevation, terms and definitions, theory of leveling form of field notes, leveling instruments and their use, leveling rods and related accessory equipment, sources of error and necessary precautions, field exercise.

APPLICATION OF LEVELING

Profiles and their uses, methods of obtaining field data, plotting profiles from field notes, field exercise, grade lines and grade computations, giving grade in field, contours and contour leveling, plotting contours from field notes.

ANGULAR MEASUREMENT AND DIRECTION

Terms and definitions, units of angular measurement, angular computations, methods of making angular measurements, meridians, azimuths and bearings, angles formed by lines of known direction, azimuths and bearings from field angles, magnetic compass surveying.