

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

COURSE OUTLINE

Course title: SURVEYING
Code No. SUR 120-3 oici codz^ 330 ~ JL?JA'1
Program; FORESTRY TECHNICIAN
Semester: III
Date: JANUARY 1989
Author; V. VENN

New: Revision

X

Approved

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Chairperson

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Date

CALENDAR DESCRIPTION

SUR 120-3

SURVEYING

SUR 120-3

Course Name

Course Number

TEXT! Surveying Notes - Sault College

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	20%
Short Quizzes (in class)	10%
Mid Semester Tests	30%
Final Semester Test	40%
	100%

A	80% - 100%
B	70% - 79%
C	60% - 69%
X-R	UNDER 60%

1) Minimum acceptable grade is 60%.

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2) Your assignments will carry equal weight and you will be notified one week in advance prior to handouts. Their due date is one week from issuing, and late submissions will be penalized in the following fashion:

- 1 day late - loss of 20% for that particular assignment
- 2 days late - loss of 10% for "
- 3 days late - loss of 10% for

NO ASSIGNMENTS will be accepted on the 4th day.

3) The in-class short quizzes will be given as the study lesson lends itself applicable. Each quizz will carry an equal weight. If you miss on a quizz you will not be penalized. However, all subsequent quizzes will be penalized accordingly.

Mid term test or tests, as well as the final test, will be announced in advance. If your grade in either of these tests is below 59% then it will be up to the instructor whether you receive an "X" (Incomplete) or an "R" (Repeat). The criteria employed for arriving at that decision is class attendance and participation. If an "X" is administered then in your re-write test the best obtainable mark will be a "C". NOTE that re-writes are permitted only once. The final semester test re-writes will be scheduled only during the prescribed make-up period.

FORESTRY TECHNICIAN
SEMESTER 3

SUR 120-3

TOPIC NO.

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.