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

COURSE OUTLINE

**Course Title:** SURVEYING  
**Code No. :** SUR236  
**Program:** FORESTRY TECHNICIAN  
**Semester:** FOUR  
**Date :** AUGUST 1986  
**Author:** SALVATORE IENCO

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New I Revision:

**APPROVED!**  Chairperson (') m. ib/RA  
Date

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CALENDAR DESCRIPTION

SUR 236-3

SURVEYING

SUR 236-3

Course Name

Course Number

PREREQUISITE: SURVEY 120

TEXT; Surveying Notes - Sault College

PHILOSOPHY/GOALS;

REFER TO APPENDIX "A"

METHOD OF ASSESSMENT:

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Assignments	20%
Short Quizzes	
(inclass)	5%
Mapping Project	15%
Mid Semester Tests	25%
Final Semester	
Test	35%
	100%

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

1) Minimum acceptable grade is 60%.

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

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NO ASSIGNMENTS will be accepted on the 4th day.

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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 one 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 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.

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APPENDIX "A"

FORESTRY TECHNICIAN

COURSE OF STUDY OUTLINE - SURVEYING (SUR 236)

TOPIC NO.

TOPIC INFORMATION

LINEAR MEASUREMENT

Terms and definitions, units of linear measurement, conversions, methods of measuring distance, steel tapes, taping notes, errors and mistakes in taping, establishing a pacing standard.

THE ENGINEER'S TRANSIT

Basic principles, types of transits and their general application, use of transits handling and set-up, the transit vernier sources of error, field exercise.

TRAVERSING

Types of traverse, angular closures, methods of traversing, stationing, mistakes and errors in traversing and their elimination.

TOPOGRAPHIC MAPPING

Freehand lettering, plotting traverse data with protractor and scale, plotting coordinates for horizontal control, plotting irregular boundaries, plotting topographic detail, mapping from field notes.

STADIA SURVEYING

Definitions, theory of stadia, the application and limitations of stadia surveying, notekeeping, reduction of stadia field notes, field procedure, plotting stadia topography.

FIELD EXERCISES

Transit and tape traverse survey, stadia survey.

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