

DOC. #59

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

f',Mt; ** | Tc

COURSE TITLE: SURVEYING

CODE NO.: SUR109-5 SEMESTER: IV

PROGRAM: ENVIRONMENTAL/WATER RESOURCES ENGINEERING

AUTHOR: J. THEIL, P. Eng.

DATE: MARCH 1996 PREVIOUS OUTLINE DATED; JUNE 1990

APPROVED: 
DEAN

[DATE]

SURVEYING SUR109-5

COURSE NAME CODE NO.

TOTAL CREDITS HOURS: 80

PREREQUISITE(S):

I. PHILOSOPHY/GOALS:

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

II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):

Upon successful completion of this course the student will be able to

- 1) Perform linear measurement using chaining equipment.
- 2) Set up a level and record levelling notes.
- 3) Define backsight, foresight, turning point, height of instrument and bench mark.
- 4) Set up a transit and measure horizontal angles.
- 5) Compute bearings and azimuths and latitudes and departures.
- 6) Perform a traverse survey using a transit.
- 7) Apply stadia surveying to distance measurements.

III. TOPICS TO BE COVERED: HOURS

1) Linear Measurements	3
2) Levelling	10
3) Angular Measurements and Direction	10
4) Traverse Survey	12
5) Stadia Measurements	4
	39
Interim Test/Final Examination	_7.
	46

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IV. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.)

Assignments	30%
Interim Test	25%
Final Examination	<u>45%</u>
	100%

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 to 59% may be allowed to complete a supplementary examination.

V. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the instructor.

VI. REQUIRED STUDENT RESOURCES

Surveying Notes, Sault College - Campus Bookstore

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

Several College Surveying Text Books

VIII. SPECIAL NOTES

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.

Late penalties will be imposed for late attendance for field work and late submission of assignments when due.