

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

COURSE OUTLINE

Course Title: SURVEYING AND MAPPING
Code No.: SUR 121
Program: WATER RESOURCES ENGINEERING TECHNOLOGY
Semester: THREE
Date: September 1985
Author: G.M. CAMERON

New: Revision:

APPROVED:

Chairperson (J

Date

SURVEYING AND MAPPING

Course Name

SUR 121

Course Number

PHILOSOPHY/GOALS:

See attached course outline

METHOD OF ASSESSMENT (GRADING METHOD)

See attached

TEXTBOOK(S):

Surveying notes, Sault College

WATER RESOURCES ENGINEERING TECHNOLOGY
Marking System - Surveying

Semester 2

CRITERIA EMPLOYED FOR ASSESSMENT PURPOSES

1. TOTAL ASSIGNMENT, PROJECT AND TEST ASSESSMENT ENTIRE SEMESTER
Late submissions will not be accepted unless prior consultation with instructor discloses unusual difficulty

2. Attendance
 - Attendance will be recorded at the beginning of each class
 - Late arrivals will be marked absent
 - Chronic late arrivals will be refused admittance.A poor attendance record will work to the detriment of the student where a border line situation is encountered

ASSIGNMENT, PROJECT, AND TEST ASSESSMENT

Individual assignments, projects and tests will be assessed on a basis of 100 marks.

-minimum acceptable grade = 60

BREAKDOWN

TOTAL SEMESTER = 100 marks

Assignments 25 marks

Mid-semester Tests 35 marks

Final Semester Tests = 40 marks

EXAMPLE

8 Assignments at 100 marks each
= 800 possible marks

Assume 640 marks attained

Therefore $640 \times 25 = 20$
800

Mid-Semester test

Assume a grade of 74 marks attained

Therefore $74 \times 35 = 26$
100

Final Semester test

Assume a grade of 82 attained

Therefore $82 \times 40 = 33$
100

Therefore $20+26+33 = 79$ or a grade of B

MARKING SYSTEM CONTINUED

INCOMPLETE GRADES

1. Repeat assignments or tests to carry a maximum possible grade of 60.
2. Mid-semester tests may be repeated only once. Final semester test rewrites will be scheduled only during the prescribed make-up period. Failure to attain a satisfactory grade therein will require repeating the course. Satisfactory completion, semester 2 will be a prerequisite for entry in semester 3.

Semester 3

Similar to above in all respects except as follows

Total Semester 3 Marks = 100 marks

Assignments = 25 marks

Mapping Project = 25 marks

Final Semester Test = 50 marks

Numerical Equivalents

60-74 = C

75-84 = B

85-100 = A

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SAULT STE. MARIE

WATER RESOURCES ENGINEERING TECHNOLOGY SEMESTER 3
Course of study outline - Surveying and Mapping SUR 121-3

<u>Topic No.</u>	<u>Topic Information</u>
1	<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.
2	<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.
3	<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.
4	<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
5	<u>FIELD EXERCISES</u> Transits and tape traverse survey, stadia survey.