

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

COURSE OUTLINE

Course Title: SURVEYING AND MAPPING  
Code No.: SUR 120-3 (OLD CODE: SUR 230-3)  
Program: FORESTRY TECHNICIAN  
Semester: THIRD  
Date: September 1985  
Author: G. M. CAMERON /

New:

Revision:

APPROVED:

Chairperson

*R.P.L. W<( • Mn/^ .ms*  
Date

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SURVEYING AND MAPPING

Course Name

SUR 120-3

Course Number

PHILOSOPHY/GOALS:

See attached course outline

METHOD OF ASSESSMENT (GRADING METHOD):

See attached

TEXTBOOK(S):

Surveying Notes, Sault College

MARKING SYSTEM - SURVEYING  
SEMESTER 3

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  $74 \times 35 = 26$

Final Semester test

Assume a grade of 82 attained  
Therefore  $82 \times 40 = 33$

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

MARKING SYSTEM (con't)

INCOMPLETE GRADES

1. Repeat assignments or tests to carry a maximum possible grade of 60.
2. Mid-semester test 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 3. will be a prerequisite for entry, semester 4.

SEMESTER 4

Similar to the above in all respects, excepting as follows

Total Semester 4  
100 marks

Assignments	- 25 marks
Mapping Projects	- 25 marks
Final Semester Test	- 50 Marks

SAULT COLLEGE OF APPLIED ARTS.AND TECHNOLOGY

SAULT STE. MARIE

FORESTRY TECHNICIAN

COURSE OF STUDY OUTLINE SURVEYING AND MAPPING

The Surveying and Mapping course is designed to familiarize the student with basic surveying principles and to provide field practice in the use of surveying and the application of surveying methods. Emphasis is placed on surveying and mapping problems uniquely inherent to Forestry.

TIME

Semester 3 - SUR 120-3

3 Hours lecture (theory) and laboratory per week

Semester 4 - SUR 236-3

3 Hours lecture (theory) and laboratory per week

TEXT

Sault College - SURVEYING NOTES

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE

FORESTRY TECHNICIAN SEMESTER 3

COURSE OF STUDY OUTLINE SURVEYING AND MAPPING SUR 120-3

TOPIC NO.	NO. of HOURS	TOPIC INFORMATION
		<u>GENERAL</u> Introduction, definitions of surveying types, kinds, and purposes of surveys kinds of surveying measurements, accuracy and precision of measurements, errors and mistakes.
	12	<u>LEVELING</u> 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 rod and related accessory equipment, source of error and necessary precautions, fie exercise.
	12	<u>APPLICATION OF LEVELING</u> 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.
	14	<u>ANGULAR MEASUREMENT AND DIRECTION</u> Terms and definitions, units of angular measurement, angular computations, methods of making angular measurements, meridans, azimuths and bearings, angles formed by lines of known direction, azimuths and bearings from field angles magnetic compass surveying.

SURVEYING

BIBLIOGRAPHY - REFERENCE TEXT

1. Philip Kissam - SURVEYING PRACTICE - third edition  
McGraw-hill Book Company
2. Philip Kissam - SURVEYING INSTRUMENTS AND METHODS  
McGraw-Hill Book Company
3. Philip Kissam - SURVEYING FOR CIVIL ENGINEERING  
McGraw-Hill Book Company
4. Parker and Mc Guire - SIMPLIFIED SITE ENGINEERING  
John Wiley and Sons.
5. Davis and Foote - SURVEYING , THEORY AND PRACTICE  
McGraw-Hill Book Company
6. Breed and Hosmer - ELEMENTARY SURVEYING  
John Wiley and Sons
7. Rubey, Lommell and Todd - ENGINEERING SURVEYS  
The MacMillan Company
8. Moffitt and Bouchard - SURVEYING - SIXTH EDITION  
In text Educational Publishers
9. Brinken and Wolf - ELEMENTARY SURVEYING - Sixth edition  
IEP - A Dun-Donnelly Publisher
10. McCormac - SURVEYING  
Prentice Hall Inc.
11. Ives - HIGHWAY CURVES  
John Wiley and Sons
12. Hickerson - ROUTE SURVEYS AND DESIGN  
McGraw-Hill Book Company
13. Meyer - ROUTE SURVEYING  
In text Educational Publishers
14. Herubin - PRINCIPLES OF SURVEYING - Second Edition  
Reston Publishin Company, Inc
15. Nassau - PRACTICAL ASTRONOMY  
McGraw-Hill Book Company
16. Allen - SIX PLACE TABLES  
McGraw-Hill Book Company
17. Brunns - A NEW MANUAL OF LOGARITHMS
18. Ives - B6l^aRn^?S^169B088«SiefUNCTIONS