

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: MATHEMATICS  
Code No.: MTH 113-4  
Program: FORESTRY & GEOLOGY TECHNICIANS  
Semester: ONE  
Date: JUNE 1983  
Author: D. TROWBRIDGE

New: Revision:

APPROVED:

Chairperson

Date / <sup>^</sup> y

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MATHEMATICS  
Course Name

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PHILOSOPHY/GOALS:

The objectives of this course include the review of the basic operations on algebraic expressions and the solutions to systems of linear equations.

A survey of plane & solid geometry will enable the student to determine areas, volumes and weights for a variety of forms including cylinders, cones and pyramids.

METHOD OF ASSESSMENT (GRADING METHOD):

Periodic tests based on material in course outline will be given during the semester. A final exam and a make-up test will be at the discretion of the instructor.

TEXTBOOK(S):

"Essentials of Mathematics"; Fourth Edition, (Person)

OBJECTIVES:

The basic objective is for the student to develop an understanding of the methods studied, knowledge of the facts presented and an ability to use these in the solution of problems. For this purpose, exercises are assigned. Tests will reflect the sort of work contained in other assignments. The level of competency demanded is the level required to obtain an overall passing average on the tests. The material to be covered is listed on the following page.

PERIODS	TOPIC DESCRIPTION	REFERENCES
2	Using Electronic Calculators	Ch. 24 p. 284-288
6	<u>Estimations, Dimensional Analysis and Metrication"</u> Approximate numbers and rounding off procedures - scientific notation Dimensional analysis for conversion between English and/or SI units The Metric System	Person Ch. 32 p. 500-510  p. 494-499
7	<u>Plane Geometry</u> Definitions and theorems involving triangles and rectangles Definitions and theorems of the circle, practical problems Basic constructions if time permits	Person Ch. 25, 27 Heywood p. 415-427
23	<u>Solid Mensuration</u> Mensuration of plane figures Mensuration of solid figures, cubes, cylinders, pyramids, cones and spheres; applications and formulae	Person Ch. 28-31
24	<u>Review of Elementary Algebra</u> Simplification (bracket removal) Basic Operations (monomial) Special products and factoring Operations involving algebraic expressions and fractions (polynomials) Solutions and properties of linear equations Applied Word Problems Formulae Manipulation	Person Ch. 6-12