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

## COURSE OUTLINE

Course Title:	MATHEMATICS		
Code No.:	MTH 099-4		
Program:	FORESTRY		
Semester:	ONE		
Date:	JUNE, 1986		
Author:	K. R. PELEW		
		New;	Revision:

APPROVED:

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#### CALENDAR DESCRIPTION

**MATHEMATICS** 

MTH 099-4 FORESTRY

COURSE NAME

COURSE NUMBER

#### PHILOSOPHY/GOALS:

The objectives of this course are to increase the student's speed, accuracy and skill in performing basic arithmetic calculations and operations on algebraic expressions, as well as the solution of practical problems involving linear equations.

A survey of plane and solid geometry will enable the student to identify a variety of figures encountered, and to determine their perimeters, areas, volumes and weights appropriately in both English and SI units.

### METHOD OF ASSESSMENT (GRADING METHOD):

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

The final mark will be based on the results of the tests and assignments given in each of the five topics. Each topic will represent 20% of the final mark.

Grading: A+ = 90-100%

A = 80 - 89%

B = 65 - 79%

C = 55 - 64%

A passing grade will be based on a minimum grading of 55%. For further details read the Mathematics department's publication, "To the Mathematics Student", which is attached.

#### TEXTBOOK(S):

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

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#### 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 to reinforce concepts learned, and to show the relevance of these concepts to the student's needs in facilitating computations in the forestry course. Tests will reflect the sort of work contained in the 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.

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TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCES
		Estimations, Dimensional Analysis and Metrication  Approximate numbers and rounding off procedures - scientific notation Dimensional analysis for conversion between English and/or SI units The Metric System	Person Ch. 32
		Plane Geometry Definitions and theorems involving triangles and other polygons Definitions and theorems of the circle, practical problems Basic constructions if time permits	Person Ch. 24-27 Heywood pp. 415-42'
	23	Solid Mensuration Mensuration of plane figures Mensuration of solid figures - cubes, cylinders, pyramids, cones, spheres, paraboloids - applications and formula	
	10	Review of Basic Arithmetic Whole numbers, fractions, decimal fractions, percentages, without the use of a calculator.	Person Ch. 1, 2, 4 only
	26	Review of Elementary Algebra Simplification (bracket removal) Basic Operations (monomial) Special products and factoring	Person Ch. 6-11

Formulae Manipulation

Operations involving algebraic expressions

and fractions (polynomials)
Solutions and properties of linear equations
Applied Word Problems