

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

COURSE OUTLINE

Course Title: MATHEMATICS

Code No.: MTH 099-4

Program: GENERAL ARTS & SCIENCE (GAS)

Semester: ONE

Date: JUNE, 1986

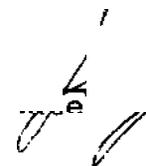
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News

Revision:

APPROVED:


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CALENDAR DESCRIPTION

MATHEMATICS

MTH 099-4 G.A.S.

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.

Emphasis will be placed on developing the student's ability to state a ratio in simplified form, and to solve basic problems dealing with direct and inverse proportions.

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

METHOD OF ASSESSMENT (GRADING METHOD);

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

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)

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 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.

MTH 099 GAS

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCES
	10	<u>Review of Basic Arithmetic</u> Whole numbers, fractions, decimal fractions, percentages, without the use of a calculator	Person, Ch. 1, 2, 4 only
	26	<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. 6-11
		<u>Ratio and Proportion</u> Ratio Proportion - Direct and Inverse applied word problems	Person, Ch. 23
		<u>Dimensional Analysis and Metrication</u> Dimensional analysis for conversion between English and/or SI Units The Metric System	Person, Ch. 32
		<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. 24-27 Heywood pp. 415-42"/
	17	<u>Mensuration</u> Mensuration of plane figures Mensuration of solid figures, cubes, cylinders, applications and formulae	Person Ch. 28-29
TOTAL HOURS	72		