

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

COURSE OUTLINE

Course Title: COLLEGE PREPARATORY MATHEMATICS
Code No.: MTH 097-5
Program: GENERAL ARTS & SCIENCE - COLLEGE PREPARATORY
Semester: ONE
Date: JUNE, 1987
Author: K.R. PELEW AND W. O. MAKI

New: Revision:

APPROVED;

W. O. Maki
erson July 15/87
sChayfp erson Date

College Preparatory Mathematics

Course Name

MTH 097-5 (G.A.S.)

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 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: **Basic Mathematics**, Howard A. Silver

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 below:

<u># of</u> <u>Periods</u>	<u>Topic Descriptions</u>	<u>Reference</u>
1. 5	Whole Numbers and their operations.	Ch. 1
2. 10	Operations with and definition of fractions.	• Ch. 2
3. 8	Operations with and definition of decimals.	Ch. 3
4. 15	Percents and conversions to decimals - ratio and proportion.	Ch. 4
5. 15	Metric system - conversion to and from English system. Basic plane geometry.	Ch. 5
6. 10	Introduction to Algebra - basic operations, (if time permits)	Ch. 6

63 hours