DOC.#237

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: COLLEGE PREPARATORY MATHEMATICS

Code No. MTH 098-5

Program: GENERAL ARTS & SCIENCE

Semester: TWO

Date: DECEMBER 1987

Author: K. PELEW

New: Revision:

APPROVED: Chairperson Date

CALENDAR DESCRIPTION

COLLEGE PREP MATHEMATICS — MTH 098

COURSE NAME — COURSE NUMBER

PHILOSOPHY/GOALS;

The objectives of this course are to develop the student's skill in performing basic algebraic operations, as well as the solution of practical problems involving linear equations in one and two variables. A survey of geometry will enable the student to identify a variety of basic plane and solid figures encountered and to determine their perimeters, areas and volumes appropriately in both British and SI units.

METHOD OF ASSESSMENT;

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 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:

Essentials of Basic Mathematics (Third Edition), Washington/Plotkin/Edmond.

MTH098 COURSE OUTLINE

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.

Topic No.	Number of Periods	Topic Descriptions	References
1	5	Numbers	Ch. 1 Pgs. 1-34
2	6	Introduction to Algebra	Ch. 2 Pgs.35-55
3	5	Single Equations and Formulas Ratio and Proportion	Ch. 3 Pgs.56-67 Pgs.75-80
4	10	Basic Algebraic Operations	Ch. 4 Pgs.92-11
5	8	Factoring	Ch. 5 Pg.116-13
6	5	Problem solving	Ch. 7 Pg.167-17
7	3	Graphs	Ch.10 Pg.232-24
8	5	Simultaneous Equations	Ch.12 Pg.304-32
9	3	Pythagorean Theorem	Ch. 8 Pg.193-19
10	8	Geometry	Ch.13 Pg.326-34 Pg.355-36
11	5	Trigonometry (if time permits)	Ch.14 Pg.386-40
12	3	Quadratic Equations (if time permits)	Ch. 9 Pg.207-22
	66 hours		