

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

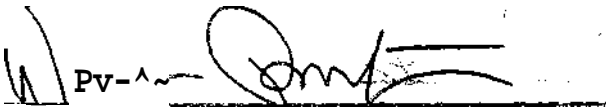
COURSE OUTLINE "....

Course Title: MATHEMATICS
Code No;: MTH 122-4
Program: ' COMPUTER PROGRAMMER
Semester: TWO
Date: JANUARY 1988
Author: " " " " J. GLOWACKI

New:

"Revision:

APPROVED:


Chairperson

M&A^k. gm~
Date

CALENDAR DESCRIPTION

MATHEMATICS

MTH 122-4

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

This course presents the mathematics needed in computer programming. Concepts taught will also assist in other computer courses. Emphasis is placed on how to interpret a problem and to develop a solution algorithm. The computer will be used to obtain output for specified problems.

METHOD OF ASSESSMENT (GRADING METHOD):

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

The final mark will be based on four unit tests, each representing 25% 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%. Students obtaining a grade of 40-54% may be allowed to write a make-up test. However, only students who have attended at least 80% of the math classes will be considered for a make-up test.

TEXTBOOK(S):

Kay, Christine B., MATHEMATICS FOR COMPUTER PROGRAMMERS,

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MATHEMATICS
MTH 122-4

COURSE OUTLINE

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	-	REFERENCE
1	11	NUMBER SYSTEMS - sets and Venn diagrams - integer and real number sets - format arithmetic		Pg. 1-52
2	10	ALGORITHMS - input, process and output - repeating steps and decisions		Pg. 53-79
3	12	ALGEBRAIC APPLICATIONS FOR PROGRAMMING - order of operations - inequalities - exponents - equation solving		Pg. 96-136
4	10	ADVANCED ALGEBRA CONCEPTS - arithmetic and geometric sequences - matrices		Pg. 202-245
5	7	BINARY SYSTEMS - number base concepts - binary, octal and hexadecimal		Pg. 246-292
6	4	MATHEMATICAL LOGIC		Pg. 304-321