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DOC.#486

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: _MATHEMATICS_

Code No.: _MTH 122-.4_

Program: _COMPUTEF/ PROGRAMMER_

Semester: _TWO_

Date: _JANUARY 1989_

Author: _J. GLOWACKI_

New: Revision: X

APPROVED: **V/K—^ W w U —**
Chairperson   Date *W ᶻz/f€*

<u>CALENDAR DESCRIPTION</u>

MATHEMATICS   **MTH 122-4**

COURSE NAME   **COURSE NUMBER**

<u>**PHILOSOPHY/GOALS**</u>:

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.

<u>**METHOD OF ASSESSMENT**</u> **(GRADING METHOD;**

Periodic tests and daily assignments based on material in course
outline will be given during the semester. A final rewrite 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%
                 R = 0--54%

A passing grade will be based on a minimum grading of 55%. Students
obtaining a grade of 45-54% may be allowed to write a rewrite test.
However, only students who have attended at least 80% of the math
classes will be considered for a rewrite test.

<u>**TEXTBOOK(S)**</u>:

Kay, Christine B., MATHEMATICS FOR COMPUTER PROGRAMMERS,

MATHEMATICS
MTH 122-4

COURSE OUTLINE

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