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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title:	MATHEMATICS			
Code No.:	MTH 370-3			
Program:	MECHANICAL TECHNOLOGY (YEAR 3)			
Semester:	V			
Date:	JUNE, 1987			
Author:	J. REAL			

New:

Revision:

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APPROVED

Chairperson

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MATHEMATieS

MTH 370-3

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

In this course the study of calculus continues. The topics covered are: Methods of Integration, Infinite Series, and First Order Differential Equations.

METHOD OF ASSESSMENT (GRADING METHOD)

Grades:

Grades reported on your transcript are based on a weighted average of test scores, on the following basis:

90 - 100% A+ 80 - 89% A 65 - 79% B 55 - 64% C 0 - 54% R or X

The method of calculating a weighted average is described in your student hand-book.

All tests are scheduled in advance. Hence attendance is mandatory. Unexcused absence from a test will result in a mark of zero for that test. If a student is prevented from writing a test by illness, the student must phone the instructor (949-2050) before the time of the test and leave a message for the instructor, at his extension, stating the reason for absence. Upon return to classes, the student must see the instructor immediately to arrange a time and place for a -marke-up test. The student must have a doctor's certificate or note from the college nurse.

There will be no rewrites (make-up tests) or supplemental exams during the semester or at the end of the semester.

MTH 370-3

TOPIC NO	NO. OF PERIODS	TOPIC DESCRIPTION	ASSIGNMENTS	
	15	Methods of Integration		Ch
		Review integration of trigonometric, exponents logarithmic, and inverse functions. Integration by parts Integration by substitution Trigonometric substitution Partial fractions Integration by use of tabl Review	ial, E Ex. 1 on Ex. 2 hs Ex. 3 Ex. 4, Ex. 6 les Ex. 8	
	15	Partial Derivatives and Double Integrals		Ch
		Functions of two variables Partial Derivatives Total Differential and Applications Double integration Centroids and moment of inertia Radius of gryation Review	Ex Ex Ex Ex Ex Ex Ex.	
	15	Differential Ek^uations First Order		Ch
		Direct integration, separa of variables Special integrable combinations Linear differential equations Exact eqns. (use of entegrating factor) Applications (word problem	ation Ex. 1,2 Ex. 3 Ex. 4 Ex. 5 ms) Hand-out	