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

COURSE OUTLINE

Course Title:	MATHEMATICS
Code No.:	MTH-426
Program:	MECHANICAL TECHNOLOGY
Semester:	TWO
Date:	JUNE 1987
Author:	J. REAL

		New	Х	Revision:
APPROVED:	X $y^{\wedge}y^{\vee}$ Chairper^Qfh	STINK		Dave Suff 7

MATHEMATICS *

Course Name

MTH 4 26

Course Number

PHILOSOPHY/GOALS

This course is a continuation from MTH 413 as a pre-calculus course, including more algebra, trigonomety, logarithms and analytic geometry topics. It is intended that the emphasis should be relevant to specific applications in the calculus work that follows.

METHOD Of ASSESSMENT (GRADING METHOD):

GRADES:

Grades reported on your transcript are based on a weighted average of tes 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 mus 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 make-up test. The student must have a doctor's certificate or a note from the college nurse.

TRANSFERS

Students who fail the technology math course (MTH 426) will receive an "1 grade in that course at semester end (unless given an "X" grade extensioi because of extenuating circumstances). Those who are elegible may regis in the next semester's technician course (MTH 254). If they pass this course they will also be given a credit (CR) in the previous semester's technician math course (MTH 220). The "R" grade in the technology math course (MTH 426) will remain as part of the record on their transcript.

CREDITS

A credit for this course may be allowed on presentation of proof of standing in the Functions and Relations and Algebra courses of the Ontar Grade 13 program.

TOPIC NO.	NO. OF PERIODS	TOPIC DESCRIPTION	ASSIGNMENTS	REPERENCI
			Exercise	Chapter
1	б	Quadratic Equations		б
		Solution by factoring	1	
		Completing the square	2	
		The quadratic formula	3	
		Graphs of quadratic functions	4	
		Review exercise	5	
2	5	Trigonometric Function of Any	Angle	7
		Signs of trig functions	1,2	
		Radian measure	3	
		Angular measurements	4	
_	_	Review exercise	5	
3	6	Oblique Triangles		8
		Vectors	1-4	
		Sine law	5	
		Cosine law	6	
		Review exercise	7	
4	3	Graphs of Trigonometric Funct	ions	9
		Sine and cosine graphs	1-3	
		Graphs of other functions	4	
5	3	Exponential and Logarithmic Fu	unctions	12
		Definition of a logarithm Graphs of exponential and	1	
		logarithmic functions	2	
		Rules foe logarithms	3	
		Common and natural logarithms	4-6	
		Exponential and log equations	7	
_	_	Review exercise	9	
6	6	Additional Trigonometric Topic		19
		Fundamental trig, identities	1	
		Sum and difference formulae	2	
		Double angle formulae	3	
		Trigonometric equations	5	
		Inverse trig, functions	6,7	
		Review exercise	8	

TOPIC NO.	NO. OF PERIODS	TOPIC DESCRIPTION	ASSIGNMENTS	REFERENCi
			Exercise	Chapter
	11	Plane Analytic Geometry		20
		Length of line, slope	1	
		Equation of straight line	2	
		The circle	3	
		The parabola	4	
		The ellipse	5	
		The hyperbola	б	
		Offset curves	7,8	
		Review exercise	11	