SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: MATHEMATICS

Code No.:   MTH 254-4

Program: __ CIVIL/CONSTRUCTION TECHNICIANS

Semester: III

Date:_____DECEMBER, 1983

Author: W. MACQUARRIE

                              Mew: Revision:

APPROVED:
          Chairoerson   Date

CIVIL/CONSTRUCTION TECHNICIANS
MTH 254-4
MATHEMATICS

CALENDAR DESCRIPTION

MATHEMATICS _____ MTH 254-4
COURSE" NAME   ""COlTftSE"NUMBER

^{PH}. ILOSOPHY/GOALS:

When the student has successfully completed this course, he will have demonstrated an acceptable ability to pass tests based upon the course topics as listed elsewhere. If, after completing the course, the student takes further courses (or employment) in which he is required to apply this material he should then, through practice, be able to develop a good command in this subject matter.

METHOD,OF ASSESSMENT (GRADING METHOD):

The students will be assessed by written tests, including major periodic tests based upon large blocks of the subject matter and'some unannounced short quizzes on current work, the latter being given at the discretion of the instructor. A final test on the whole course may also be included. A letter grade will be based upon a student's weighted average of all his test results. See also the mathematics department annual publication "To The Mathematics Student" for further details. This publication is mada available to the students early in each academic year.

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    Calculus with Analytic Geometry •- Person
    Analytic Geometry - College Manuscript (optional)

OBJECT IVES:

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 .vill reflect the sort of work contained in the assignments. The level of competency demanded is the level required to obtain an overall passing ^••^t0.0z on the vests. The material to be covered is listed on the follow"!no pageU):

CIVIL/CONSTRUCTION TECHNICIANS
MTH 254-4
MATHEMATICS

ODS	TOP^C	DESCRIPTION	REFERENCE
	Al_egebra_Review		Manuscript
	Specfal pro3ucTs, factoring		Available
	exponents, radicals, formulas		
	simultaneous equations		
	Analytic Geometry -		Person - by
	Straight rine_Rectangular		paragraph
	Co-oTdfnateT *		
	Distance between points on		1.1-1.10
	rect. system		1.11, 1.13
	Slope		1.17
	Angle between two lines		3.1 - 3.5,3
	Straight line equations		3.7
	Distance from a point to a line		
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	CoiiTc Sect Tons		
	Introduction - section through		
	a cone		7.10
	The Circle - equations and graphs		
	- tangent to a circle		4.1-4.5
	The Parabola - equations & graphs		
	- applications		
	- reflector		5.1 -- 5.5
	The Ellipse - equations S graphs		5.1 - 5,3
	General Second degree equations		
	Calculating point(s) of inter-		
	section of two curves		
	Empirical _Equati_ons		Rice and
	Linear empirical equations		Knight
	Non-linear empirical equations		2nd Edition
			Ch. 6 -
			p. 131-135
			p. 33(-3S2
	Annuities		Handouts
	Accumulated value of an amount		
	a':d an annuity		
	Present value of an amount		
	and an annuity		
	Use of amortization tables		