

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

COURSE OUTLINE

Course Title: MATHEMATICS
Code No.: MTH 151-3
Program: MACHINISTS
Semester: ONE
Date: JUNE, 1986
Author: K- R. PELEW

New

Revision

APPROVED

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CALENDAR DESCRIPTION

MATHEMATICS

MTH 151-3

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

In this course emphasis will be placed on teaching mathematics at a level that will facilitate computation in the machine shop trade. Some theoretical concepts and topics in algebra and geometry will be covered, but quickly reinforced with practical problems to make it more relevant to the students' needs. Wherever possible, problems will relate to strengthen concepts taught by their subject instructor-

METHOD OF ASSESSMENT (GRADING METHOD)

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

The final mark will be based on the results of the tests and assignments given in each of the topics

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% For further details read the Mathematics department's publicationr "To the Mathematics Student", which is attached.

TEXTBOOK(S)

Hoffman, Edward G., Practical Problems in Mathematics for Machinists

OBJECTIVES:

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 will reflect the sort of work contained in the assignments. The level of competency demanded is the level required to obtain an overall passing average on the tests • The material to be covered is listed on the following page-

MACHINISTS
MTH 151-3
MATHEMATICS

<u>TOPIC</u> <u>FRAME</u>	REFERENCE	TIME (Periods)
1. Whole Numbers Common Fractions Decimal Fractions	Units 1-14 p. 1-48	8
2, Direct Measure Computed Measure	Units 15-27 p. 49-94	14
3- Percentâge & Finance (optional) Graphs	Units 28-32 p. 95-116	5
4 - Shop Formulas Ratio and Proportion Powers and Roots	Units 33-42 p. 114-155	12
<i>m</i> 5; Geometric Forms & Construction Trigonometry	Units 43-52 p, 156-203	12
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