

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: JULY, 1987
Author: J. REAL

New

Revision:

APPROVED:


O Halperin

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);**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

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 make-up test. The student must have a doctor's certificate or a 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 151

CREDITS

A credit for this course may be allowed on presentation of proof of standing in the grade 12 advance level mathematics course.

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 other 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 pages.

Topic No.	No. of Periods	Topic Description	Assignments	Ref.
1	7	Arithmetic Whole numbers Common fractions Decimal fractions	Units 1-14	p.1-48
2	12	Measurements Direct measure Computed measure Introduction to trigonometry	Units 15-27	p.49-94
3	5	Business Math Percentage and finance Graphs	Units 28-32	p.95-116
4	9	Applications Shop formulas Ratio and proportion Powers and roots	Units 33-42	p.114-15^
5	9	Trigonometry and Geometry Geometric forms and constructions Trigonometry applications	Units 43-52	p.156-20: