

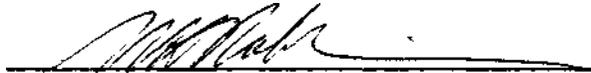
SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: MATHEMATICS
Code No.: MTH 151-3
Program: WELDERS
Semester:
Date: DECEMBER, 1983
Author: J. SUFADY

New: X Revision:

APPROVED:


Chairperson

Date

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WELDERS
MTH 151-3
MATHEMATICS

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 welding and fabricating trade. Whenever possible, problems relating to this field of study should be used.

METHOD OF ASSESSMENT (GRADING METHOD):

1. Four tests after each ten units.
2. One test on trigonometry, square root calculations, equations.
3. Final grade = $\frac{\text{Total Marks obtained of 5 tests}}{\text{Total Possible Marks}} \times 100\%$
4. If a student receives a grade less than 55% he/she may write a two-hour final exam covering the entire semester's work.

TEXTBOOK(S):

Schell, Frank R., & Bill J. Matlock, Practical Problems in Mathematics for Welders.

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 page(s):

WELDERS
MTH 151-3
MATHEMATICS

<u>Topic</u>	<u>Reference</u>
Whole Numbers	p. 1-67
Common Fractions	
Decimal Fractions	
Averages & Percentages	
Direct Measure	p. 68-103
Angular Measure	
Computed Measure	p. 104-142
Pieces & Lengths	p. 143-156
Trig for Welders	p. 143-156
(a) Sine Law	
(b) Cosine Law	Handouts
(c) Simple offsets	
(d) Rolling offsets	
(e) Use of trig tables	
Square root calculations	Handouts
Solving Linear equations	