SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Ti tie: MATHEMATICS

Code No.:   MTH 151-3

Program: MACHINISTS

Semester:

Date: DECEMBER, 1983

Author: J. SUFADY

New: Revision

APPROVED _____   *c^ 7-dx^^ /9K3*
          Chairperson   Date
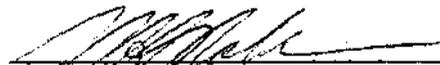
MACHINISTS
MTH 151-3
MATHEMATICS

CALENDAR DESCRIPTION

MATHEMATICS   MTH 151-3
COURSL NAMt:———————————————————————————COURSE NUMBER

PHILOSOPHY/GOALS:

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

METHOD OF ASSESSMENT (GRADI^NG METHOD):

1. Five tests after each ten units (approximate).

2. Final Grade = $\frac{\text{Total Marks obtained on 5 Tests}}{\text{Total Possible Marks}} \times 100\%$

3. If a student achieves a grade less than 55% he/she may write a two-hour final exam covering the entire semester's work,

TEXTBOOK(S):

Hoffman, Edward 6,, Practical Problems in Mathematics for Machinists

OBJECTIVES:

The basic objectlve is for the student to devel op 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 li sted on the following page(s):

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MATHEMATICS

Topic	Reference	Time Fråme (Periods)
	Units 1-14	8
Whole Numbers	p. 1-48	
Common Fractions		
Decimal Fractions		
Direct Measure	Units 15-27	13
Computed Measure	p. 49-94	
Percentage & Finance	Units 28-32	5
Graphs	p. 95-116	
Shop Formulas	Units 33-42	10
Ratio and Proposition	p. 114-155	
Powers and Roots		
5. Geometric Forms & Constructi on	Units 43-52	10
Trigonometry	p. 156-203	

Text on each topic

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