

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: MATHEMATICS
Code No.: *ISO*
MTH -H3-4
Program: ARCHITECTURAL TECHNICIAN
Semester:
Date: MAY 25, 1983
Author: K. CLARKE

New:

Revision:

APPROVED:



Chairperson

/Jfrc^e-mJlwU , /ffc.3
Date

ARCHITECTURAL TECHNICIAN
MTH 113-4
MATHEMATICS

CALENDAR DESCRIPTION

MATHEMATICS
Course Name

MTH 113-4
Course Number

PHILOSOPHY/GOALS:

When the student has successfully completed this course, he will have demonstrated an acceptable ability to pass tests based upon the course contents 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 of this subject matter.

METHOD OF ASSESSMENT (GRADING METHOD):

The students will be assessed by tests. These tests will include periodic tests based upon blocks of subject matter and may, at the instructor's discretion include unannounced surprise tests on current work and/or a final test on the whole course. A letter grade will be based upon a student's weighted average of his test results. See also the mathematics department's annual publication "To the Mathematics Student" which is presented to the students early in each academic year.

TEXTBOOK(S):

Washington, Basic Technical Mathematics with Calculus.

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(s).

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Topic Number	No. of Periods	<u>Topic Description</u>	<u>Assignment</u>	<u>Reference</u>
		<u>PRACTICAL CALCULATING</u> Conversion of units, estimating approximate numbers, scientific notation, calculators.	Text Exercises B1, B2, B3 C4, 1-5	Text App. B. App. C. 1-5
	20	<u>GEOMETRY AND MENSURATION</u> Principles of geometry as required for the following work: Pythagorean Theorem Mensuration of plane figures: triangle, rectangle, square, parallelogram, trapezoid, circle, regular hexagon. Mensuration of solid shapes: cubes, prisms, cylinders, pyramids, cones, spheres, truncated pyramids & cones.	Text Exercise D3 and additional problems	Text App. D
	18	<u>ALGEBRA REVIEW I</u> Fundamentals, zeros, exponents, roots and radicals, addition, subtraction, multiplication and division of algebraic expressions, elementary equations and their application, manipulation of formulas.	Text Exercises 1-1 to 1-4 1-6 to 1-12	Text Ch. 1 except 1-5