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

COURSE OUTLINE

| Course Title | MATHEMATICS |
| :--- | :--- |
| Code No.: | MTH 220-4 |
| Program: | ARCHITECTURAL TECHNICIAN |
| Semester | II |
| Date: | K. G. CLARMBER, 1983 |
| Author |  |

New:
Revision

## APPROVED

## ARCHITECTURAL TECHNICIAN

MTH 220-4
MATHEMATICS
CALENDAR DESCRIPTION

MATHEMATICS
MTH 220-4
COURSE NAME
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 cont< as listed elsewhere. If, after completing the course, the student takes further courses (or employment) in which he is required to apply this mater: 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 assess by tests. These tests will include periodic te; 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 tl whole course. A letter grade will be based upon a student's weighted avera' of his test results. See also the mathematics department's annual publicat "To the Mathematics Student" which is presented to students early in each academic year.

TEXTBOOK (S) :
Washington, "Basic Technical Mathematics with Calculus", Benjamin Cumm

## 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 thei in the solution of problems. For this purpose exercises are assigned. Tes will reflect the sort of work contained in the assignments. The level of competency demanded is the level required to obtain an overall passing aver; on the tests. The material to be covered is listed on the following page(s


NO .

PERIODS TOPIC DESCRIPTION
4 Ratios, Proportions, Variation

12 Review of Basic Trigonometry Angles, Trigonometric Functions, Rt. Triangles, Trig Functions of any Angle, Radian Measure, Sine Law, Cosine Law, Areas, Applications NOTE: Since the student is expected to have a scientific calculator, the use of tables should be omitted. Also, the instructions in exercises should be ammended to avoid the use of loose approximations for (such as 3.14). For areas of triangles additional problems can be used or text exercises can be altered to require areas.

ASS IGNMENTS
Text
Exercises
17-1, 17-2, 17-3

Text
Exercises
3-1 to 3-6, 7-1 to 7-5, 8-4, 8-5, 8-6 \#17 on and additional
problems

## REFERENCI

Text
Ch. 17

Text
Ch. 3, 7
8-4, 8-8

