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

COURSE OUTLINE

| Course Title: | MATHEMATICS |
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| Code No.: | MTH 118-4 |
| Program: | WATER RESOURCES |
| Semester: | TKO |
| Date: | JUNE, 1984 |
| Author: | W. MacQUARRIE |

New: Revision:

APPROVED:


## CALENDAR DESCRIPTION

| MATHEMATICS | MTH 118-4 |
| :--- | :---: |
| Course Name | Course Number |

## PHILOSOPHY/GOALS :

When the student has successfully completed this course he/she 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/she 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/her test results. See also the mathematics department's annual publication "TO THE MATHEMATICS STUDENT" for further details. This publication is made available 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 pages.

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PERIODS TOPIC DESCRIPTION
    Algebra review (continued)
Text, Ch. 14
Functions and graphs
Simultaneous equations
Quadratic Equations Text, Ch. 18
Factoring, completing the
    square, formula

Analytic Geometry

Definitions, straight line, Ch. 21 and any analytic geom. circle, parabola, translation of axes, general second degree equation. Graphical and algebraic solutions of systems of second degree equations.```

