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

## COURSE OUTLINE

CALCULUS
Course Title
MTH 208-4
Code No.:
WATER RESOURCES - PULP AND PAPER TECHNOLOGY
Program:

Semester:
THIRD - WATER RESOURCES THIRD - PULP \& PAPER

JUNE 1989
Date:
W.O. MARI

Author:

X
New:
Revision:

APPROVED:


CALENDAR DESCRIPTION

MATHEMATICS (Calculus)
MTH 208-4
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 topics as listed elsewhere. If, after completing the course, the student takes further courses (or employment) in which he is required to apply thij material, he should then, through practice be able to develop a good command in this subject matter.

METHOD OF ASSESSMENT (GRADING METHOD);
A student's progress will be assessed by periodic written tests. The student's final grade is based upon a weighted average of the test results ATTENDANCE AT ALL TESTS IS REQUIRED. Unexcused absence from a test will result in mark of zero for that test. A student may be prevented from attending a test by illness or bereavement. Upon return to classes, the student must see the instructor at the end of the first mathematics class attended to arrange a time and place for a make up test. In addition, if the absence is due to illness, the student must present a note from the student's doctor or from the College nurse.

Make up tests will not be made available in this course in any other circumstances than those described above.

As in any other subject, the student is preparing to be a technologist or technician as well as studying the subject. Hence, on tests the student i; expected to produce neat, legible, well laid out solutions which show clearly how the answer was obtained. If anything less is required, this will be indicated in the test. Failure to show such solutions may render correct answers worthless. As happens in the workplace, if anything you put on paper can be misread it will be. In addition to loss of marks on individual questions, up to $25 \%$ of the marks available on a test can be subtracted as a penalty for untidiness. Marks lost in such penalties can be redeemed by a student willing to put forth the required effort.

METHOD OF ASSESSMENT (Cont'd)
Proper solutions as described above should be produced for all your assigned work. Such practice will make it easier for you to produce the required quality of work on tests. If when you look at a page of your wor it makes you feel proud of its appearance, than you are probably on target

Marks allotted to each question on a test are usually shown. Please enquire if they are not. The questions on a test do not necessarily have equal values.

TEXTBOOK (S) :
"Essentials of Mathematics" - R.V. Person
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 ai overall passing average on the tests. The material to be covered is listec on the following page.

TOPIC
NUMBER

PERIODS

18

Applications of Integration
Applications of indefinite integral, area, volumes Pressure on a submerged plate, work, flow over a weir

REFERENCE

Text, Ch. 47 \& 49
Exercises
47-1, 47-2, 47-3,
47-4, 47-5
49-1, 49-2, 49-3 49-4,49-5

Text, Ch. 48
Exercises
48-1, 48-2, 48-3, 48-4
(omit 48-5)
Text, Ch. 50
Exercises
50-1, 50-2, 50-3. 50-4

Text, Ch. 51
Exercises
51-1, 51-2, 51-3

