

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

COURSE OUTLINE

Course Title* HATHEMATICS < Calculus >
Code No* I HTW 208-4 (Old Code *HTH 278"4)
Water Resources ~ PULP AND PAPER TECHNOLOGY
Semester* THIRD ~ WATER RESOURCES THIRD - PULP & PAPER
Date: JUNE. 1994
Author/ K. CLARKE

New _____ Revision J

APPROVED

Chairperson

Date

HATHEHATICS (Calculus)

HTH 20S-4

Course Name

Course Number

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 is able to take further courses (or employment) in which he is required to apply this material? he should then? through practice be able to develop a sound understanding of the subject matter*

It is the policy of the college to assess the student's progress in this course through a variety of methods including written tests, oral questions, and some unannounced short quizzes on current work? the latter being given at the discretion of the instructor. A final test on the whole course may also be included* The student's grade will be based upon a student's weighted average of all his test results* See also the mathematics department's annual publication "THE HATHEHATICS STUDENT" for further details* This publication is made available to the students early in each academic year*

The student will be assessed by written tests including in a periodic manner tests based upon the major concepts of the subject matter and some unannounced short quizzes on current work? the latter being given at the discretion of the instructor. A final test on the whole course may also be included* The student's grade will be based upon a student's weighted average of all his test results* See also the mathematics department's annual publication "THE HATHEHATICS STUDENT" for further details* This publication is made available to the students early in each academic year*

1. Basic Technical Mathematics with Calculus

"Basic Technical Mathematics with Calculus" ~ Washington

2. Basic Mathematics

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 overall satisfactory average on the tests* The material to be covered is listed on the following*. *PB*

TOPIC NUMBER	PEFaODS	TOPIC DESCRIPTION	REFEPENC
	<i>IB</i>	Ibe Deriyatiye L. .imxts? slope? deriv3tive? Delta Method? derivatives of pcjlyno (iials? Prod<jetRule? Quotient Rule? Chain Rule	Text? Ch Exercise 22-1 to 22--9 <ps
	10	^B&iicstiQDs of the Dejciyatiwe Teni^ents <i>andi</i> normals Curvesketc\in^ Harimum and miniirtum	Te>it?Ch^ EKercise;: 23-1? 23- 23-6? 23- (part)
	1,^	Ipte^ratioD Differentials? antiderivatives? indefinite inte*^ral? <i>a res</i> under a curve? definite intef{Tal	Text? Ch. E>iercises 24-1 to 2 24-7 (par
		^EslicatioDS of iDte^ratioD Applications of indefinite intei^ral? <i>BreB9</i> volumes Pressure on a submerged plate? work? flow over a weir	Text? Ch. EXercises 25-1 to 2\ 25-6 (pari 25-7 (pari Printed S^