SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE* MARIE, ONTARIO

CQUESE OUTLINE

Course Ti 11 e *i* ._ MATHEMATICS

C o d e N o » *i* MTH 108-4

P r o g r 3 m • WATER RESOURCES

Semestert ONE

Dstet AUGUST 1983

Author *I* K. G» CLARKE

Newt Revision\

APPROVED:

Chairperson Date

MATHEMATICS MTH 108-4

Course Name Course Number

BUILOSQEUX/GQALS:

When the student has successfully completed this course he will have demonstrated 3n 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 reauired to apply this material he should then* through practice? be able to develop a good coin-in and of this sub Je c t ma t ter,

MEIUQD QE ASSESSMENT. iGBADING MEIUQD1*

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*

IEXIBODLUSI*

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 reauired to obtain 3n overall passing average on the tests* The material to be covered is listed on the following page*

MATHEMATICS
FOR
FIRST SEMESTER

WATER RESOURCES

No* of Eejciatis	lOBic DescriEtion	Assignments	Kef eretjc
6	PRACTICAL CALCULATING Conversion of units? estimating* approximate numbers* scientific notation* calculators	TextExer• Bl> B2* B3* C4* 1-5	Text A P p APP 1-
20	GEOMETRY AND MENSURATION Prit ci pi es of geometry as reauired for the following w o r k J P th 3g ores n theorem M nsur ation of plane figures? ctangle * sausre ra 11elo gram* trapezoid* re le ? regulsr hexagon. nsurati on of solid shapes* be s ? pr- isms* cylinders* rsmi o's* cones*sPheres* trunC3ted pyramids and cones*	TextExer• D3 and additional problems	Te x t APP
	ALGEBRA REVIEW ONE Fui'id a m en 131 s » Zeros? Exponents* Roots and Rsdic3ls> Addition* Subtraction* Multiplication and Division of Algebraic Expressions* Elementary Eaustions end their application* Manipulation of foi[1] mu13s*	Text Exer* 1-1 to 1-4 1-6 to 1-12	Text Ch* excepT 1-5
17	ALGEBRA REVIEW TWO Functions and Graphs Solutions of Systems of two or three Linear Equations Special Products and Factoring Algebraic Fractions (Determinants may be omitted)	TextExer. 2-1 to 2-5 4--1 to 4-; 4-5* 4-•7 5-1 to 5-< 5-8 #1 to 64 only	TextCh* 4? 5 omitting 4-4* 4-6 3nd5•-7