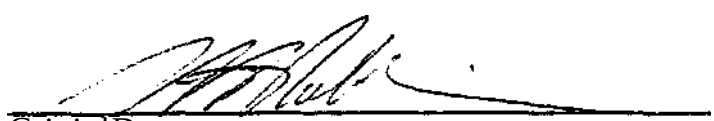
SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title:	MATHEMATICS
Code No.:	MTH 385-3
Program:	ELECTRICAL/ELECTRONIC TECHNOLOGY; COMPUTER TECHNOLOGY
Semester:	VI
Date:	JULY, 1987
Author	J. REAL

New Revision:

APPROVED 

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MATHEMATICS MTH 385-3*.ELTY

COURSE NAME COURSE NUMBER

PHILSOPHY/GOALS;

When the student has successfully completed this course he/she will have demonstrated an acceptable understanding of the course material as listed elsewhere.

The student should then be able to apply this knowledge in his/her studies of other courses in the program where these are applications of these mathematical concepts.

Upon graduation, the student should be able to develop a good command of this subject matter through additional practice.

METHOD OF ASSESSMENT (GRADING METHOD):

GRADES:

Grades reported on your transcript are based on a weighted average of test scores, on the following basis:

90 -	100%	A+
80 -	89%	A
65 -	79%	B
55 -	64%	C
0 -	54%	R or

The method of calculating a weighted average is described in your student hand-book.

All tests are scheduled in advance. Hence attendance is mandatory. Unexcused absence from a test will result in a mark of zero for that test. If a student is prevented from writing a test by illness, the student must phone the instructor (949-2050) before the time of the test and leave a message for the instructor, at his extension stating the reason for absence. Upon return to classes, the student must see the instructor immediately to arrange a time and place for a make-up test. The student must have a doctor's certificate or a note from the college nurse-
There will be no rewrites (make-up tests) or supplemental exams during the semester or at the end of the semester.

TEXTBOOK(S);

Washington - Technical Calculus with Analytic Geometry

V

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	ASSIGNMENTS	REFERENCES
1	10	**Laplace Transforms**		Ch. 16
		Finding transform by definition, table of transforms (partial fractions).	p. 539	
		Solving differential equations	p. 542	
		Review	p. 543	
2	14	**Power Series**		
		Properties of series	p. 447	
		Maclaurin series.	p. 452	
		Applications of Maclaurin series	p. 458,462	
		Fourier series	p. 474	
		Review	p* 475	
3	13	**Statistics**		Hand-out
		Descriptive statistics. Frequency distributions, mean, median, mode, quantiles, standard deviation, variance, standardized variable*		
		Probabi1i ty theo ry. Conditional probability, independent and dependent events, mutually exclusive events, permutations, combinations, probability d istributions.		
		Inferential statistics* Binomial distribution, normal distribution, sampling theory, estimation theory with confidence intervals*		