SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE, MARIE, ONTARIO

COURSE OUTLINE

	STATISTICS
Course Title	
	MTH 655-4
Code No.:	
	AVIATION
Program:	
	FOUR
Semester:	
	NOVEMBER, 1985
Date:	
	W. O. MAKI
Author:	

New: Revision: X

APPROVED: _____   _____ i'/Zs-
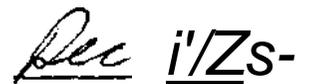   Chairperson   Date

CALENDAR DESCRIPTION

STATISTICS   MTH 655-4

Course Name   Course Number

PHILOSOPHY/GOALS;

This course will help the student to develop an understanding of
statistical techniques and procedures. S/he would be able to carry out
basic statistical tasks and better understand the use of statistics in
industry and aviation.

METHOD OF ASSESSMENT (GRADING METHOD);

The students will be assessed by regular tests. These tests are given
usually after every two chapters, 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. Each test is of equal value, except for a
final exam which would be weighted more.   See also the Mathematics
Department's annual publication "To the Mathematics Student" which is
presented to the students early in each academic year.

TEXTBQQK(S);

Modern Elementary Statistics, - 6th edition. John E. Freund.
Prentice-Hall.

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TOPIC	PERIODS	TOPIC DESCRIPTION	REFERENCE
	1	**Introduction**	pp. 1-10
	2	**Descriptive Statistics & Frequency Tables**	pp. 13-35
	8	**Measures of Location and Variation** - mean, median and mode - standard deviation	pp. 37-76
	6 or 8	**Probability** (do only section 4.4 in Chapter 4. Probability laws in Chapter 5 - addition and multiplication law only. Omit Bayles' Theorem)	pp. 96-101
	8	**Probability Distributions** with meaning and types (omit Sections 7.4 and 7.6) Section 7.5 is optional if time permits	pp. 167-19
	4 or 5	**Hormal Distribution with Applications** - normal approximation of binomial	pp. 205-22
	6 or 7	**Sampling and Sampling Distributions** - important topic for technology	pp. 234-25
8	8	**Estimation** - interval estimates of means, sample size (omit Section 10.4)	pp. 265-27
	8	**Linear Regression and Correlation** - method of least squares - coefficient of correlation	pp. 402-41 pp. 439-45