SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE:	STATISTICS		
CODE NO.:	MTH 2 7 6-4	SEMESTER:	IV
PROGRAM:	BUSINESS (ACCOUNT	CING)	
AUTHOR:	W.O. MAKI		
DATE:	JULY 1992 PR	EVIOUS OUTLINE DA	JUNE 1991 FED:

APPROVED: DB«N

Jales 16/fz-

STATISTICS

MTH 276-4

COURSE NAME

COURSE NUMBER

TOTAL CREDIT HOURS: 64

PREREQUISITE(S): MTH 262

I. PHILOSOPHY/GOALS:

The student will study confidence limits, hypothesis testing, Chi-square and analysis of variance and their applications to business, regression and correlation.

II. STUDENT PERFORMANCE OBJECTIVES:

The basic objectives are that the student develop an understanding of the methods studied, demonstrate a knowledge of the facts presented and show an ability to use these in the solution of problems. To accomplish these objectives, exercises are assigned. Test questions will be of near equal difficulty to questions assigned in the exercises. The level of competency demanded is the level required to obtain an overall passing average on the - tests. The material to be covered is listed below. **fl**

III	. TOPICS TO	COVERED:	TIME	FRAME:
1.	Hypothesis	Testing	20 1	hours
2.	Chi-square	and Analysis of Variance	20	hours
3.	Regression	and Correlation	20]	hours

STATISTICS

COURSE NAME

LEARNING ACTIVITIES: IV.

HYPOTHESIS TESTING

- 1.1 Basic concepts 1.2 Testing of means 1.3 Testing of proportions 1.4 Testing for differences between means and proportions
- 2.0 CHI-SQUARE AND ANALYSIS OF VARIANCE
- 2.1 Chi-square test for independence
- 2.2 Chi-square test for goodness of fit
- 2.3 Analysis of variance
- 2.4 Inferences about population variance 2.5
- Inferences about two population variances

3.0 REGRESSION AND CORRELATION

- 3.1 Estimation using regression line
- 3.2 Estimation using regression equation
- 3.3 Correlation analysis and standard error
- 3.4 Using regression and correlation

MTH 276-4

COURSE NUMBER

REQUIRED RESOURCES:

Text: Ch. 8		
Questions		
13 25 26 33 38 43	pp. 356 pp. 361 pp. 369	357 362
44 51 52 69	pp. 372 pp. 391	373 393
Text: Ch. 9		
Questions:		
1 - 5 :6 - 1 2 :14 - 2426 - 3839 - 4748 - 54	pp. 416 pp. 428 pp. 434 pp. 447 pp. 455 pp. 460	417 429 435 450 456 461

460

pp.

461

Text: Ch. 10

Questions:

1 -	12:	pp.	484 •-	485
13 -	24	pp.	502	505
25 -	32	pp.	512	513
33 -	40	pp.	517	518

STATISTICS

MTH 276-4

COURSE NAME

COURSE NUMBER

V. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS ETC.)

4 TESTS:

- weighting may differ according to instructor
- A+, A, B, C and R grades used
- attendance and grading policy explained on handout

VI. REQUIRED STUDENT RESOURCES:

Statistics for Management - 5th ed. Levin and Rubin Prentice-Hall

VII. SPECIAL NOTES:

Students with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.