SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

|  | STATISTICS |
|---|---|
| Course Title |  |
|  | MTH 262-4 |
| Code No.: |  |
|  | BUSINESS (ACC, E.D.P., F.S.M.) |
| Program: |  |
|  | Ill |
| Semester: |  |
|  | JUNE, 1986 |
| Date |  |
|  | J. GLOWACKI |
| Author |  |

New:                    Revision:

APPROVED: _____         ___g ^ ^  **??/#●**
              Chairperson                              Da/&e

CALENDAR DESCRIPTION

STATISTICS                                              MTH  262-4

Course Name                                        Course Number


PHILOSOPHY/GOALS:

This is the first semester of a Business Statistics course and
approximately one-third of the course is spent on descriptive
statistics with business applications.  The other two-thirds covers
probability and probability distributions sampling and sampling
distributions and some linear regression and correlation.

METHOD OF ASSESSMENT  (GRADING METHOD);

Periodic tests and daily assignments based on material in course
outline will be given during the semester.  A final exam and a make-up
test will be at the discretion of the instructor.

The final mark will be based on four unit tests, each representing 25%
of the final mark.

Grading:   A = 80-100%
           B = 65-79%
           C = 55-64%
           I = 45-54%

A passing grade will be based on a minimum grading of 55%.  Students
obtaining grading of 45-54% may be allowed to complete a supplementary
examination.' However, only students having satisfactory attendance
records will be considered for the supplementary examination.

TEXTBOOK(S):

"Statistics for Management", R. Levin - 3rd Edition

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 other
assignments.  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 on the following page.

| TOPIC NO. | PERIODS | TOPIC DESCRIPTION | REFERENCES |
|---|---|---|---|
| 1 | 1 | <u>Introduction</u><br>Definition, history and subdivisions of statistics | Pages 1-5 |
| 2 | 3 | <u>Frequency Tables and Graphs</u><br>Collection of data, samples and populations, construction of frequency tables | Pages 8-37 |
| | 2 | <u>Histograms</u>, frequency polygons, frequency curves and ogives | Pages 38-52 |
| 3 | 6 | <u>Descriptive Measure</u><br>Meaning of measures of central tendency, arithmetic mean, weighted mean, geometric mean, median mode | Pages 58-90 |
| 4 | 6 | <u>Measure of Variability</u><br>Meaning of dispersion, range, quartiles, variance and standard deviation | Pages 106-133 |
| 5 | 10 | <u>Probability</u><br>History of probability, two types of probabilities, rule of addition, rule of multiplication, joint and conditional probabilities (optional) | Pages 144-174 |
| 6 | 15 | <u>Probability Distribution</u><br>Meaning of probability distribution, types of distribution, random variables<br>Binomial distribution<br>Poissson distribution<br>Normal distribution | Pages 200-245 |
| 7 | 5 | <u>Sampling</u><br>Purpose and definition, different types of sampling, sampling distribution, standard error | Pages 269-302 |
| 8 | 8 | <u>Estimation</u><br>Point and internal estimation, criteria of good estimator, large and small sample estimation for mean and the proportions<br>Determination of sample size | Pages 312-344 |