SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: COMPUTER APPLICATIONS II

Code No.: FOR 358-4

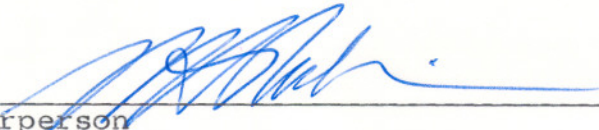Program: FISH AND WILDLIFE TECHNOLOGY

Semester: VI

Date: FEBRUARY, 1985

Author: V. WALKER

New: ___X___   Revision: _____

APPROVED: _____   *Feb 8/85*
          Chairperson   Date

CALENDAR DESCRIPTION

COMPUTER APPLICATIONS II   FOR 3 58-4

---------------------------------   ---------------------------------

    COURSE NAME   COURSE NUMBER

PHILOSOPHY/GOALS: To provide the student with a working knowledge of analysis of variance, regression and correlation and chi-square in research and management of natural resources. An introduction to the Minitab data analysis system will be initiated.

METHOD OF ASSESSMENT (GRADING METHOD):

Term Test	70%
Homework Assignments	30%
	100%

TEXTBOOK(S):

Schefler, William C., Statistics for the Biological Sciences, 1979. Addison-Wesley Publishing Company, Don Mills, Ontario.

TEXTS: Statistics for the Biological Sciences - W.C. Schefler
         Student Minitab Reference Manual.

UNIT #1

- Chi-square goodness of fit
- F-test
- Single classification of ANOVA
      - calculation of sources of variation
      - construction of ANOVA table
      - calculation of F-ratio
      - interpretation of results for Model I and Model II
      - comparison with student's t-distribution
      - a priori and posteriori test

TERM TEST #1

UNIT #2

- Two-way ANOVA
      - calculation
      - construction of ANOVA table
      - interpretation of results
      - significance testing
      - replication, assumptions of ANOVA

- Non-parametric tests
      - Sign test
      - Wilcoxon test
      - rank correlation
      - Kruskal-Wallos test
      - Friedman test

TERM TEST #2

UNIT #3

- Regression and correlation
      - straight line regression and calculation
      - tests of significance
      - calculation of correlation coefficient
      - confidence limits

TERM TEST #3

TERM TESTS

Term tests will be written at the end of Units 1, 2 and 3 for
a total value of 70% of the course grade. Term tests are
accumulative.

HOMEWORK ASSIGNMENTS

Problems in the form of homework assignments will constitute
the remaining 30% of the course grade. Certain of these
problems will be solved using the Minitab data analysis
system. Late assignments will be deducted 10% per day for
every day late.

Students failing to submit homework assignments will receive
an "I" for that assignment. Students with outstanding
homework assignments at the end of the semester will be
required to submit those assignments, although they will be
valued at zero. Failure to submit outstanding assignments
will result in an "I" grade for the course regardless of term
test results.

Students failing two or more term tests will be required to
write a final exam on the entire course content during the
rewrite period. A passing grade is 60%.

Students receiving a grade of less than 60% based on term
tests and homework assignments will be required to rewrite the
unit test on which they performed the poorest during the
rewrite period.