

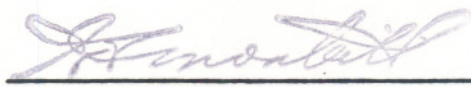
SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

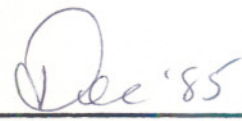
COURSE OUTLINE

Course Title: COMPUTER PROGRAMMING
Code No.: EDP 105 - 2
Program: MECHANICAL & ARCHITECTURAL
Semester: TWO
Date: DECEMBER 1985
Author: R. PEARMAN

New: _____ Revision: X

APPROVED:


Chairperson


Date

COMPUTER PROGRAMMING

EDP 105 - 2

Course Name

Course Number

PHILOSOPHY/GOALS:

1. To allow students to become familiar with the BASIC language to enable them to solve scientific problems related to their discipline.
2. To give students the opportunity to get "hands-on" experience with a modern computer system.

TEXTBOOK(S):

BASIC and the Personal Computer, by Thomas Dwyer & Margot Critchfield, Addison-Wesley Publishing Company.

CBM Professional Computer Guide, by Osborne et al (On reserve in the Library)

METHOD OF ASSESSMENT (GRADING METHOD):

Tests and Evaluation

A written test will be given at approximately three (3) week intervals. Material from previous blocks may be included.

Practical

Programming assignments for solution by the computer will be assigned.

Grading

Students will be graded A, B, C or I (incomplete) as follows:

- A -- 80 - 100%
- B -- 66 - 79%
- C -- 55 - 65%
- I -- 50 - 54%
- R -- Less than 50%

Students with a mark between 50 - 54% at the end of the semester, may at the discretion of the lecturer set a final comprehensive examination. The maximum mark that can be achieved is 55%.

The grading weight will be:

- Test # 1 -- 10% of total mark
- Test # 2 -- 15% of total mark
- Test # 3 -- 25% of total mark
- Test # 4 -- 30% of total mark

ATTENDANCE AT ALL SCHEDULED CLASSES WILL BE A FACTOR IN DETERMINING FINAL GRADES!

80%

Term Assignments -- 20%

100%

SPECIFIC TOPICS

<u>HOURS</u>	<u>TOPICS</u>
3	<u>SYSTEM FUNDAMENTALS</u> a) Screen editing b) Use of peripherals: Printer and disk drives c) Files and Directories
6	<u>BASIC FUNDAMENTALS</u> a) Form of a BASIC statement and BASIC character set b) Variables and constants: types and names c) Data formats d) Arithmetic operations and their hierarchy
10	<u>BASIC STATEMENTS</u> a) Initializing variables b) REM statements c) END statements d) INPUT from keyboard e) READ, DATA statements f) PRINT g) IF, THEN, ELSE h) FOR-NEXT loops and nested loops i) DIMENSION statements j) PRINT USING k) Use of system functions (SIN, SQR, EXP) etc.
11	Students shall be able to incorporate the above elements into BASIC programs to do assigned problems by: a) editing their programs b) running their programs and producing output on display or printer.

SPECIFIC OBJECTIVES

The student shall be able to write and apply the following BASIC elements:

1. The use of Line Numbers
2. The Remark Statement (REM)
3. Constants and Variables
4. Expressions
5. The LET Statement
6. The Assignment Statement
7. The READ and DATA Statements
8. The END statement
9. The PRINT statement
10. Functions
11. The GO TO Statement
12. The Computed GO TO Statement
13. The IF-THEN Statement
14. The STOP statement
15. FOR and NEXT statement
16. The INPUT statement
17. The ON statement
18. The GOSUB and REM statements
19. The PRINT SPC and PRINT TAB statements
20. The PRINT USING statement
21. Defined Functions
22. The CHANGE statement

The student should be able to write and run simple BASIC programs.

The student shall be able to write and run single loop and multiple loop BASIC programs.

The student shall be able to write and run BASIC programs using subscripted variables and arrays.