# SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

# SAULT STE. MARIE, ONTARIO

## COURSE OUTLINE

Course Title: __INTRODUCTION TO PROGRAMMING__

Code No.: __CET106-4__          Semester: 1

Program: __COMPUTER ENGINEERING TECHNOLOGY__

Author: __TYCHO BLACK__

Date: __SEPT., 1992__   __Previous Outline Dated: SEPT.,1991__

APPROVED: _____          92-09-03

                   Dean                              Date

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TOTAL CREDIT HOURS:      60

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PREREQUISITES:      None

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## I.   PHILOSOPHY/GOALS:

This course is an introductory computer programming course which utilizes the Fortran programming language on the VAX computer to develop fundamental skills in programming and computer operation. It is not intended to be a rigorous problem-solving course, but rather a course in which the student will learn the necessary skills to use the computer and the Fortran language effectively. These skills will be extended in successive courses such as CET129, Structured Program Development, in second semester.

## II.  STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

1.  Use the VAX computer and the VMS operating system to create, compile, link and run Fortran programs.

2.  Use VMS commands to manage files and directories on the VAX.

3.  Develop algorithms to describe the solution of typical problems to be solved with the computer, and implement them with the Fortran language.

4.  Describe the fundamental structures of computer programs and how they are implemented in Fortran.

5.  Use the VAX Mail, Phone and Help utilities.

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III. TOPICS TO BE COVERED:

1. Vax/VMS fundamentals.

2. Fortran programming.

3. VAX utilities.

| IV. LEARNING ACTIVITIES | REQUIRED RESOURCES |
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I- VAX FUNDAMENTALS

During this block the student will study the VAX computer and the VMS Operating System. At the end of this block the student will be able to:

TEXT:

"VMS User's Guide"

1. Describe the organization of the Vax computer and the function of its parts. — Chap. 1

2. Describe the typical software components of the system and their function.

3. Describe the Sault College computer network and their general use.

4. Learn to use the network facilities and DCL (Digital Command Language) to:

a) Log on and off the system.

b) Display the contents of a file on the terminal.

c) Delete, Purge, Rename, Copy and Print the contents of files. — Chap. 2

d) Use the EVE and EDT editors to create text files. — Chap. 3,4