

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Outline: ADVANCED APPLICATION PROGRAMMING

Code No.: EDP 229

Program: BUSINESS PROGRAMMER

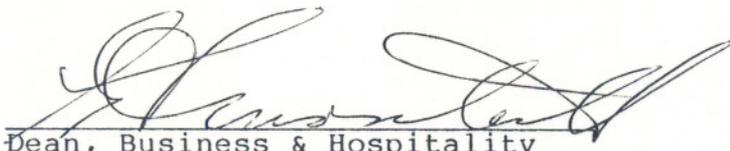
Semester: THREE

Previous Outline Dated: SEPTEMBER, 1989

Date: SEPTEMBER, 1990

Author: DENNIS OCHOSKI

New: _____ Revision: X _____

APPROVED:  90-05-25
Dean, Business & Hospitality Date

COURSE SYNOPSIS:

The course will start with a review of material covered in the introductory COBOL course. The students will be introduced to a full range of file types available on the VAX 11/780. The students will also examine various data structures and manipulate and compare each. The course will also cover sort/merge utilities and the report writer. The applications will be geared to on-line projects and assignments.

TEXTBOOK: "VAX Cobol", Stephen M. Samuels

MODULE 1

Review in detail elements of Cobol Language.

This module will reinforce what was learned in the Intro to Cobol Course.

MODULE 2

Will examine the REPORT WRITER.

At the end of this module, the student will be able to understand and apply the following:

1. Control breaks in report writing
2. Logic of report programs
3. Report Writer with control breaks
4. Report Writer using declaratives
5. Language specifications for the COBOL Report Writer

MODULE 3

Will examine sorting and merging.

At the end of this module, the student will be able to understand and apply the following:

- 1) Various sorting algorithms
- 2) COBOL file-sort feature
- 3) SORT statement formats
- 4) File merging

MODULE 4

Will examine screen management.

At the end of this module, the student will be able to understand and apply the following:

1. Create input screens
2. Generate menu screens
3. Erase a screen, lines
4. Control cursor positioning
5. Special character attributes such as bell, underline, bold, blink, reverse
6. Conversion clause
7. Error handling and detecting

MODULE 5

Will examine table handling.

At the end of this module, the student will be able to understand and apply the following:

- 1) Table definitions in COBOL
- 2) The OCCURS clause
- 3) The PERFORM verb and table handling
- 4) Table searching
- 5) Indexing, subscripting, and searching

MODULE 6

Will examine file organizations.

At the end of this module, students will be able to understand and apply the following:

- 1) Difference between sequential and indexed sequential file organization.
- 2) Updating an indexed sequential file
- 3) COBOL language instructions for indexed file
- 4) Relative file organization

MODULE 7

Will examine subprograms.

At the end of this module, the student will be able to understand and apply the following:

- 1) Calling sub-programs into a main program
- 2) Transfer of control
- 3) Sample main and subprogram structure

STUDENT EVALUATION

The student's final grade will be determined from the following components:

A) Tests (3 @ 22%)	-	66%
Assignments	-	14%
Project	-	15%
Participation	-	5%
		<hr/>
		100%

B) Grading:

A+	90 - 100%
A	80 - 89%
B	70 - 79%
C	60 - 69%
R	0 - 59%

NOTE: Students are expected to attend class regularly and to participate in class discussion. They are also expected to treat their peers and instructors in a professional businesslike manner during class time. Late assignments are subject to a zero grade unless the student has **PRIOR** permission from the instructor to hand the assignment in at a later date.

There will be no rewrites in this course.