SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Outline: COBOL 1 AND DOCUMENTATION

Code No.: EDP 113-8

Program: BUSINESS DATA PROCESSING

Semester: TWO

Date: JANUARY, 1985

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New: ________ Revision: X

APPROVED: ________________ 85-01-29

Chairperson Date

COBOL 1 AND DOCUMENTATION	EDP 113-8
Course Name	Course Number

Length of Course: 7 periods per week for one semester

Texts: "COBOL Programming - A Structured Approach" by Peter Able
3rd edition

Other References:

1) Fundamentals of Structured COBOL Programming by Carl Feingold
4th edition

2) VAX 11-780 COBOL Language Reference Manual

3) COBOL User's Guide (on file in work room)

PURPOSE:

This course will be taken in Semester 2 by students in the Data Processing option of the Business program. This course must be taken in conjuction with EDP 107-2 "Introduction to Operating Systems".

1) This course will provide students with an opportunity to develop their data processing skills by introducing them to the COBOL programming language. This language is the most widely used language in business data processing. Students will be exposed to most features of the language. This exposure will provide a foundation for more advanced study in Semesters 3 and 4.

2) Programming assignments will be designed to cover a variety of business applications.

3) Students will also be instructed in the preparation of adequate documentation. The knowledge which they gain in this area should be displayed by the preparation of a binder containing complete documentation of all assignments.

4) Basic concepts of proper logic design are to be stressed throughout this course to clearly identify programming as a problem-solving tool and **NOT** a syntactical process. The fundamental concepts of processing data through a computer are to be emphasized as the basic tools to using **ANY** language and/or system.

Student Evaluation:

The student's final grade will consist of the following components:

- tests (3 x 20)	60%
- term work (program assignments)	30%
- participation & attendance	10%
	100%

PROGRAM DEADLINES: Each program must be handed in ON TIME with CORRECT results = 50%

Deductions: - 10 per day if late
- 40 if incorrect results and assignment **MUST** BE corrected withone **ONE** week of deadline and handed back in = 50%.

Balance of Marks:
- Techniques of Style
- Efficiency
- Documentation in source program
- Thoroughness (procedure & test data)

NOTE: Failure to successfully complete **ANY** of the programming assignments or consistent failure to meet deadlines will subject the student to a fina grade of "R".

Material to Be Covered:

TOPIC	DESCRIPTION
1	Introduction - program design & development - development of COBOL - advantages & disadvantages - divisions of COBOL - ANSI COBOL - basic EDP concepts & hardware review
2	Characteristics of COBOL - reference format - language elements - program structure - terms and names - writing a COBOL program using files - sample COBOL program

TOPIC	DESCRIPTION
3*	Identification Division - purpose - required entries - optional entries
4*	Environmental Division - purpose - required entries - optional entries
5*	Data Division - purpose - required entries - optional entries
6*	Structured Programming - history of program design techniques - objectives of structured programming - basic logic structures
7*	Procedure Division - purpose - required entries - input-output verbs - data manipulation verbs - arithmetic statements - sequence control statements - simple conditions - compound conditions - nested conditions
8*	Cobol Programming Techniques - programming standards and documentation techniques - naming conventions - programming for efficiency

*The following topics will be presented and applied in progressive steps through gradually more complex programming assignments.