

SAULT COLLEGE
of Applied Arts and Technology
Sault Ste. Marie

COURSE OUTLINE

COMPUTER PROGRAMMING & APPLICATION

EDP200-4

revised January 1981 - John Mitchell

COMPUTER PROGRAMMING AND APPLICATION

PRE-REQUISITE - EDP 100.5

TEXT - Accounting and Information Systems -- J. Page
Computer Programming in Basic -- G. Tsu-Den Chou

AIM AND OBJECTIVES

1. review of the "BASIC" programming language with several accounting related programs
2. an understanding of the techniques of system analysis which are the tools fundamental to computer-based systems
3. an understanding of the concepts of computer system design and implementation
4. an understanding of how the above principles can be carried out by a computer based information system

STUDENT EVALUATION

Regular Tests	3@25	75
Assignments & Participation		25
Final Test		25

GRADING

A --	80-100
B --	70-79
C --	55-69
I --	40-54
R --	under 40

Students achieving a grade of 40-54% inclusive will be required to attend a make-up period and write a supplementary final exam.

Students receiving an overall average at the end of the semester of less than 40% will be denied the opportunity to attend the make-up period.

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COURSE OBJECTIVES BY UNITS

UNIT 1 -- Computer and Systems Review

Basic Programming

- a review of the "BASIC" programming language
- a continuous application of accounting methods to Data Processing throughout the term

Computer Hardware and Software

CH 7

- review of -- basic computer concepts
 - input/output
 - processing and storage

Data Files and Data Bases

CH 8

- review of -- program vs data
 - concept of files

System-analysis techniques

CH 5

- introduction to flowcharting
- flowcharting -- sales system
 - accounts receivable system

System-analysis application

CH 6

- structure of a System Analysis Report

UNIT II -- Systems Development

Overview of System Development

CH 9

- overlook at system -- analysis
 - objectives
 - design
 - implementation

System Objectives

CH 10

- statement of objectives
- computer acquisitions -- elements
 - alternatives
- application

System Implementation

CH 12

- elements of -- programming
 - implementation
 - evaluation

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COURSE OBJECTIVES BY UNITS

UNIT II -- Systems Development

System Design CH 11
-elements of -- system design
-- system specification
-application

UNIT III -- Computer-based Information Systems

Financial Accounting and Control Systems CH 13
-information flow
-components of a FA&C system
-output requirements
-data organization and input

Cash Receipts and Disbursement Systems CH 14
-information flow
-accounts receivable component
-accounts payable component
-payroll component

Sales and Purchases Systems CH 15
-information flow
-order processing component
-inventory control component
-sales analysis component

Internal Control in Computer-based System CH 16
-special problems and their solution
-elements of internal control in a computer environment