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

COURSE OUTLINE

Course Outline:	INTRODUCTION TO MICROCOMPUTERS				
Code No.:	EDP 219				
Program:	PROGRAMMER				
Semester:	THREE				
Date:	SEPTEMBER, 1986				
Author:	B. LAILEY				
	New:X				
APPROVED:	86-09-30 Parson				

	INTRO	TO	MICROCOMPUTERS
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EDP 219

Course Name

Course Number

TIME: 4 hours/week

AIMS AND OBJECTIVES:

- 1. To provide an opportunity to develop an understanding of microcomputer hardware and operating system software.
- To provide an opportunity to enhance BASIC programming skills drawing upon previous knowledge gained in earlier semesters in BASIC and COBOL.
- 3. To provide an opportunity to introduce and develop practical skills in the use of one or more application software products.

TEXT: "IBM PC - An Introduction to the Operating System, BASIC Programming and Applications"

STUDENT EVALUATION:

Term Tests (3 x 20%)	-	60%
Assignments (5 x 3%)	-	15%
Independent Research Project	-	15%
Additional Assignments	-	10%

100%

BINDERS DUE:

RESEARCH PROJECT: Due December 15, 1986

October 13, 1986 November 10, 1986 December 15, 1986

NOTES:

1) Students are advised to maintain a backup of all files on diskette. Loss of output due to a lost or damaged diskette will not be acceptable for a late or incomplete assignment.

2) Assignments received after the due date are subject to a grade of '0'.

MODULE 1 - MICROCOMPUTING: A FIRST LOOK

- Introduction to the IBM PC

Ch. 1&2 - Historical developments

& Notes - Diskette and hard disk concepts

- Loading DOS and BASIC

MODULE 2 - OPERATING SYSTEM: AN INTRODUCTION

- Operating System Functions

Ch. 3 & - Microcomputing Operating Systems Reviewed

Notes - MSDOS - Fundamental Commands - Additional Commands

- File names and file specifications

- Disk directories

MODULE 3 - OPERATING SYSTEMS - MSDOS ADDITIONAL FEATURES

Ch. 3 - Paths, Directories and Subdirectories

MSDOS - Batch Files - Creating Your Own

Manual & - AUTOEXEC.BAT Notes - CONFIG.SYS

MODULE 4 - OPERATING SYSTEMS - MSDOS - ADVANCED FEATURES

Ch. 2 - Comparing Files
MSDOS - Using the Editor

Manual & - Debugging

Notes - Lower-Level Programming

- Building Programs

- Converting Program Formats

- DOS Editing Keys

MODULE 5 - BASIC PROGRAMMING - BASIC COMMANDS & STATEMENTS REVIEWED

Ch. 5-10 - BASIC Versions on the IBM PC

& Notes

- Loading and Using BASIC
- Function and Editing Keys
- BASIC Commands - BASIC Statements
- Input and Output Alternatives
- Structured Programming Style

MODULE 6 - BASIC PROGRAMMING - ADVANCED FEATURES

Ch. 11-18 - File Processing Concepts

& Notes

- Using Sequential or Random Files
- Sorting Techniques
- Using Graphics and Sound
- Building a System with BASIC and DOS

MODULE 7 - APPLICATION SOFTWARE

Notes

- Predominant Types of Application Software
- Copyright Issues
- Software Installation Procedures
- Application Software Operating Methods
- Memory-Based versus Disk-Based Programs and Files
- File Handling Approaches

MODULE 8 - WORD PROCESSING - INTRODUCTORY CONCEPTS

Notes

- Word Processing History
- Word Processing Basics
- Comparison of Several Word Processing Products

MODULE 9 - WORD PROCESSING - ENTERING AND EDITING

Notes

- Utilizing Advanced Word Processing Techniques
 - correcting errors
 - screen formatting
 - text manipulation methods
 - libraries and spelling checkers

MODULE 10 - WORD PROCESSING - PRINTING

Notes

- Formatting Text for Printing
- Document Printing Control Techniques
- Printer Control Device Drivers

MODULE 11 - SPREADSHEETS - INTRODUCTORY CONCEPTS

Notes & - Historical Background LOTUS 123 - Spreadsheet Applications

Manual - Basic Spreadsheet Terminology

- Creating, Saving and Printing a Spreadsheet

MODULE 12 - SPREADSHEETS - ADVANCED CONCEPTS

Notes & - Advanced Editing Concepts

LOTUS 123 - Built-In Functions
Manual - Graphics Capabilities

- Protection and Security

- Use of Macros

- Extracting and Combining Spreadsheets