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

COURSE OUTLINE

Course Outline:	INTRODUCTION	TO MICROCOMPU	JTERS	
Code No.:	EDP 219			
Program:	PROGRAMMER		en Desta (2 x 30%)	
Semester:	FOUR #81		dependent Research Proj	
Date:	JANUARY, 1985	5		
Author:	B. LAILEY		The students are advis	
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APPROVED:	erson de	W_	95-62-66	

INTRO. TO MICROCOMPUTERS

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.
- To provide an opportunity to develop practical skills in the use of one or more application software products.

STUDENT EVALUATION:

Term Tests (2 x 30%) Assignments	60% 15%	
	134	
Independent Research Project		
(BASIC or DBASE2)	15%	
Quizzes/Participation	10%	
	100%	

NOTE: Students are advised to maintain a backup copy 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.

TOPIC OUTLINE

REFERENCE

Text - Chapter 1

Lecture Notes

Text - Chapter 1

- Introduction:
 - overview of course
 - orientation to PC lab
 - putting personal computing into perspective
- 2) The IBM PC:
 - hardware overview
 - the IBM PC Family of Microcomputers
 - Lecture Notes - Peripherals
- Do's and Don't's of PC Operation: 3)
 - diskette use
 - keyboard function
 - printer operation

Chapter 2,3 Lecture Notes

- Introduction to DOS: 4)

 - similarity to VAX/VMS naming and locating files

 - wild card charactersexecuting DOS commands (internal and external)
 - executing programs under DOS
 - batch files
- BASIC Programming Review:
 - structured programming in BASIC
 - formatting output
 - keyboard control in BASIC
 - direct/indirect mode
 - BASIC syntax
 - entering and modifying BASIC statements
 - constants and variables
 - BASIC statements LET, PRINT, LPRINT, REM, SWAP
 - BASIC commands LIST, LLIST, DELETE, SAVE, LOAD, NEW, KILL, AUTO, RENUM,
 - using the BASIC EDITOR
- BASIC Programming Review (cont'd)
 - looping and more looping
 - sequence control
 - BASIC statements FOR...NEXT, IF... THEN, IF...THEN...ELSE, WHILE... WEND, GOTO

Chapter 3 Lecture Notes

Chapter 4,5,6 Lecture Notes

> Chapter 5 Lecture Notes

BASIC Programming Review (cont'd)

Chapters 5,6,9 Lecture Notes

- inputting data
- subroutines
- arrays
- advanced output formatting
- randomizing
- BASIC statements GOSUB, ON...GOSUB, RETURN, INPUT, LINPUT, READ, DATA, RESTORE, DIM, PRINT USING, LPRINT USING, RND
- BASIC Programming Review (cont'd) 8)

 - sequential file processing Lecture Notes
 elementary sorting techniques
 string manipulation
 - string manipulation
 - special control codes for screen and printer
 - BASIC statements -LEN, LEFTs, RIGHTs, MIDs, INSTR, STRs, VAL, LOCATE, etc.
- Introductory Computer Graphics: 9)
 - line graphics
 - bar charts
 - graphics mode screen, colour
 - elementary drawing
 - pie charts
 - paint and draw
- 10) Application Software-Word Processing/
 Data Base Management: T.B.A.

Note: contents of this topic will depend upon the available. Note: contents of this topic will depend upon the availability of software.

Chapters 8.9

Chapters 10,13 Lecture Notes