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

COURSE OUTLINE

Course Title	BASIC PROGRAMMING	
Code No.:	CET 100	
Program:	CIVIL & ARCHITECTURAL	
Semester:	ONE	
Date:	SEPTEMBER 1987	
Author:	K. CHENG	
		New:Revision:
APPROVED:	Chairperson Chazutt	87-08-17 Date

CALENDAR DESCRIPTION

BASIC PROGRAMMING	CET	100
Course Name	Course	Number

PHILOSOPHY/GOALS:

This course is an introductory computer programming course for the Architectural & Civil (based on the course for first semester Electrical, Electronic, and Instrumentation Technician students). Because it is a first semester course, it is not intended to be a rigorous problem solving course, but, rather, a course that will introduce the student to the BASIC language and provide the student with the necessary skills in using the computer required for successive courses.

METHOD OF ASSESSMENT (GRADING METHOD):

SEE ATTACHED SHEET ENTITLED GRADE REQUIREMENTS.

TEXTBOOK:

IBM PC: AN INTRODUCTION TO THE OPERATING SYSTEM, BASIC PROGRAMMING AND APPLICATIONS, by L.J. Goldstein, 3rd. Ed., Pentice Hall.

GRADE REQUIREMENTS

CET 100

BASIC PROGRAMMING

(ARCH/CIVIL)

Your final grade in CET 100 will be determined on the basis of three tests to be administered during the semester. Each will examine your knowledge of a number of topics and will be administered within a week of completing those topics. The topics covered by each of the four tests are as follows:

TEST 1 -- TOPIC NUMBER I TOPIC NUMBER II

TEST 2 -- TOPIC NUMBER III

TEST 3 -- TOPIC NUMBER IV TOPIC NUMBER V

The 3 tests are of equal weight (i.e. each of the tests is worth 30% of your final grade and 10% is miscellaneous). In order to obtain your letter grade, the following percentage/letter grade equivalents will be used:

A = 80 - 100%

B = 69 - 79%

C = 55 - 69%

R = 0 - 54%

Should you find yourself with an R grade at the end of the semester, in order to upgrade your mark to C, you will be required to pass a make-up examination covering the entire course content.

Prior to administering any test, you will be notified a full week in advance. Should you for any reason not be able to be in attendance on a day for which a test has been scheduled, it is your responsibility to notify the instructor prior to the test. If your reasons are acceptable, a date will be set during which you may write the test you have missed.

COURSE OUTLINE

CET 100

BASIC PROGRAMMING

TOPIC NUMBER	TOPIC DESCRIPTION		
I	INTRODUCTION		
	- interaction with the computer		
	- the PRINT statement		
	- the comma		
	- the semi-colon		
II	WRITING SIMPLE PROGRAMS		
	- program format		
	- the END statement		
	- line numbers		
	- BASIC commands		
	- the RUN command		
	- the LIST command		
	- the NEW command		
	- the SAVE command - the SCRATCH command		
	- the SCRAICH Command		
	- providing program data		
	- the ASSIGNMENT statement		
	- VARIABLE names		
	- the INPUT statement		
	- the READ and DATA statements		
	- documentation		
	- the PRINT statement		
	- the REM statement		
III	NUMBERS, VARIABLES & OPERATIONS		
	- large and small numbers		
	- string variables		
	- integers		
	- arithmetic operations		
	- exponentiation		
	- square root		
	- complicated expressions		
	- the SIN, COS, TAN, & ATN functions		
IV	PROGRAM CONTROL		
	- the GOTO statement		
	- the IFTHEN statement		

V

LOOPS AND DECISIONS

- the FOR/NEXT statement simple loops
- nested loops

VI

SUBSCRIPTS AND ARRAYS

- subscripts
- the DIM statement
- one-dimensional arraysthe RESTORE statement
- two-dimensional arrays (matrices)

VII

FORMATTING

- the TAB function