SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: BASIC PROGRAMMING

Code No.: CET100

Program: Electrical/Electronic/Instrumentation Technicians

Semester: One

Date: January 28, 1985

Author: G. Disano

New: _____   Revision: X _____

for use on
SuperPet

APPROVED: · _____   85-02-05
              Chairperson   Date

CALENDAR DESCRIPTION

BASIC PROGRAMMING	CET100
Course Name	Course Number

PHILOSOPHY/GOALS: This course is an introductory computer
                   programming course for first semester Electrical,
Electronic & 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: GRADE REQUIREMENTS

TEXTBOOK(S): BASIC for Microcomputers: Apple, TRS-80, PET
             by Roger W. Haigh & Loren E. Radford

             CBM Professional Computer Guide
             by Adam Osborne, Jim Strasma, Ellen Strasma

<u>GRADE REQUIREMENTS</u>

CET100

BASIC PROGRAMMING
(Electrical/Electronic/Instrumentation Technicians)

Your final grade in CET100 will be determined on the basis of four
tests to be administered during the semester. Each test 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

                    Test #4 ---- Topic Number VI
                                 Topic Number VII

The four tests are of equal weight (i.e. each of the four tests is
worth 25% of your final grade). As a result your final grade will
simply be an average of your four test results. In order to obtain
your letter grade the following percentage-letter grade equivalents
will be used:

                    A: 76% - 100%

                    B: 66% - 75%

                    C: 55% - 65%

                    X or R: 0% - 54%

If your final average is below 55% whether you receive an X (Incomplete)
or an R (Repeat) grade is entirely up to the instructor's discretion.
The decision will be based upon your final average (i.e. 32% would
result in an R grade while 50% <u>might</u> result in an X grade), your
attendance during the semester, your attitude while in the classroom,
your perceived level of effort during the semester, etc..
In any case, should you find yourself with an X grade at the end of
the semester, in order to upgrade your mark to a passing grade you
will be required to write a make-up <u>examination</u> covering the entire
course content. Should you receive a passing grade on the make-up
examination (55% or higher) your X grade will be upgraded to a C
grade. The best you can do after receiving an X grade is a C!

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 <u>prior</u> to the test! If your reasons are
acceptable a date will be set during which you may write the test
you have missed.

                                        G. Disano, January 1985

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CET100

BASIC PROGRAMMING

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Suggested Texts: BASIC for Microcomputers: Apple, TRS-80, PET
by Roger W. Haigh & Loren E. Radford

CBM Professional Computer Guide
by Adam Osborne, Jim Strasma, Ellen Strasma

Topic Number	Topic Description	Reference

I	**Introduction**
	 - interaction with the computer
	 - the PRINT statement
	     - the comma
	     - the semi-colon
	 - mistakes
		Chapter 1 (BASIC)
		
		 Chapters 2 & 3 (CBM)

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
	 - providing program data
	     - the ASSIGNMENT statement
	     - VARIABLE names
	     - the INPUT statement
	     - the READ and DATA statements
	 - documentation
	     - the PRINT statement
	     - the REM statement
		Chapters 2 & 3 (BASIC)
		
		 Chapter 4 (CBM)

III	**Numbers, Variables & Operations** - large and small numbers - string variables - integers - arithmetic operations - exponentiation - square root - complicated expressions - functions - the SIN, COS, TAN & ATN functions	Chapters 2 & 6 (BASIC) Chapter 4 (CBM)

G. Disano, January 1985