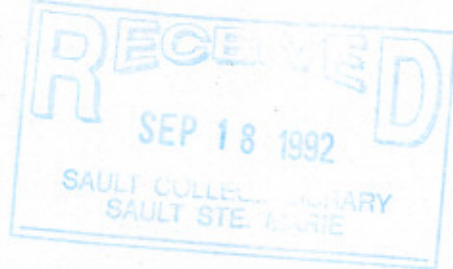


SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO



COURSE OUTLINE

Course Title: HIGH LEVEL LANGUAGE PROGRAMMING

Code No.: CET331-5 Semester: 5

Program: COMPUTER ENGINEERING TECHNOLOGY

Author: Mark Allemang

Date: SEPT., 1992 Previous Outline Dated: _____

APPROVED:

LP Chaguth

Dean

92-09-16

Date

HIGH LEVEL LANGUAGE PROGRAMMING
COURSE NAME

CET331-5
CODE NO.

III. TOPICS TO BE COVERED:

1. Vax/VMS fundamentals.
2. C Programming Fundamentals
3. Advanced C Programming

IV. LEARNING ACTIVITIES

REQUIRED RESOURCES

BLOCK I - VMS OPERATING SYSTEM

During this portion of the courses the student will

1. Describe the typical hardware and software components of the VAX computer system.
2. Discuss the concept of files and describe the method of naming files on the VAX.
3. Learn to use the network facilities to Log-on and off the system.
4. Learn to use DCL (Digital Command Language) to:
 - a. Display the contents of a file on the system.
 - b. Delete files.
 - c. Purge files.
 - d. Rename files.
 - e. Create and maintain directory structures and their associated files efficiently.
5. Use the EDT editor to create text (Source) files.
6. Describe the process of editing, compiling, linking and running a program.
7. Discuss the difference between Source, Object, List and Executable files.

HIGH LEVEL LANGUAGE PROGRAMMING
COURSE NAME

CET331-5
CODE NO.

BLOCK II - C PROGRAMMING FUNDAMENTALS

Students will be able to describe and correctly use the following as they relate to C programming:

1. C program structure and style.
2. The VAX C and Turbo C environments and their requirements.
3. C expressions, statements and operators.
4. Defining constants and declaring variables.
5. Data types and casting.
6. Basic string handling and terminal I/O functions.
7. Decision making and looping structures in C.

BLOCK III - ADVANCED C PROGRAMMING

Students will be able to describe and correctly use the following in C programs:

1. Functions and how information is passed to functions.
2. Storage classes of variables.
3. Arrays and pointers.
4. Structures and Unions.
5. Recursion
6. File I/O.
7. Dynamic memory allocation.
8. Other C library functions.
9. Time permitting, an introduction to graphics programming on the PC will be included.

TEXT:

"Structured C
for Technology"
by T. Adamson

HIGH LEVEL LANGUAGE PROGRAMMING
COURSE NAME

CET331-5
CODE NO.

V. METHOD OF EVALUATION:

THEORY TESTS	60%
ASSIGNMENTS and LAB WORK	30%
QUIZZES	10%

(The percentages shown above may vary where circumstances warrant.)

- Notes:
1. Lab work and assignments must be complete to the instructor's satisfaction for a passing grade to be achieved.
 2. Before tests the instructor will provide details of the specific objectives to be tested.

GRADING SCHEME

A+	90	-	100%
A	80	-	89%
B	70	-	79%
C	55	-	69%
I	Incomplete		
R	Repeat		

UPGRADING OF INCOMPLETES

When a student's course work is incomplete or final grade is below 55%, there is the possibility of upgrading to a pass when a student meets the following criteria:

1. The student's attendance has been satisfactory.
2. An overall average of at least 40% has been achieved.
3. The student has not had a failing grade in all of the theory tests taken.
4. The student has made reasonable efforts to participate in class and complete assignments.

HIGH LEVEL LANGUAGE PROGRAMMING
COURSE NAME

CET331-5
CODE NO.

ATTENDANCE:

Absenteeism will affect a student's ability to succeed in this course. Absences due to medical or other unavoidable circumstances should be discussed with the instructor, so that remedial activities can be scheduled.

VI. REQUIRED STUDENT RESOURCES:

TEXT BOOKS:

1. Structured C for Technology by T. Adamson.

VII. SPECIAL NOTES:

1. Students with special needs (eg. physical limitations, visual or hearing impairments, or learning disabilities) are encouraged to discuss any required accommodations confidentially with the instructor.
2. Your instructor reserves the right to modify the course as deemed necessary to meet the needs of students or take advantage of new or different learning opportunities.
3. The Blocks of objectives will not necessarily be covered in the order shown in this course outline.