SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: Operating Systems II

Course No.: CSO101

Program: 1st Year Common Computer Programs

Semester: Second (2)

Date: January 1998

Authors: Gerry Davies / Willem de Bruyne

Previous Outline Dated: January 1997

APPROVED: _Joseph C Fenelta_ _Jan 5/98_
                Dean   Date

PREREQUISITES: CSO100

LENGTH OF COURSE: 4 HOURS PER WEEK

TOTAL CREDITS: 5

I. Course Description:

This course extends the students capabilities with VMS and DOS operating systems to enable them to write programs using the COMMAND STRUCTURES of their respective operating systems. The student will also become proficient users of WINDOWS 95 operating system.

II. LEARNING OUTCOMES AND ELEMENTS OF PERFORMANCE:

A. Learning Outcomes:

1. Demonstrate writing programs using DCL that utilize advance features of the VMS operating system.

2. Demonstrate writing DOS batch files and use advanced features of the operating system.

3. Demonstrate the abilities to utilize Windows 95 to run programs, manage files, and organize the Windows 95 environment.

B. Learning Outcomes with Elements of Performance:

Upon successful completion of this course the student will demonstrate the ability to:

1. Demonstrate writing programs using DCL that utilize advance features of the VMS operating system.

Potential elements of performance:

➤ Discuss the VMS process, and ways in which command procedures can interact with each other and the user.
➤ Use logical names, symbols, lexical functions in VMS, and be able to use them in command procedures.
➤ Describe the operation of, and be able to write command procedures using DCL that incorporate the following techniques: Input and output from the terminal, File input and output, Error handling, Debugging

2. Demonstrate writing DOS batch files and use advanced features of the operating system.

Potential elements of performance:

- Discuss the process DOS follows when running programs, and the ways in which batch files can interact with each other and the user.
- Describe the operation of and be able to write batch files using the following DOS commands: cls, rem, echo, pause, call, if, goto, shift, for, choice.
- Discuss and be able to use the following DOS pipes, filters, and features: redirection, more, sort, and find in batch files.

3. Demonstrate the abilities to utilize Windows 95 to run programs, manage files, and organize the Windows environment.

Potential elements of performance:

- Describe the general organization of Windows 95 environment.
- Activating and switching between windows.
- Resizing, moving and arranging windows
- Moving information between windows.
- Discuss the general organization of the Windows 95 desktop, and describe the components.
- Running multiple programs simultaneously.
- Describe the various ways that programs can be run/accessed in the Windows 95 environment.
- Use the program Manager, and be able to use it to customize the Windows desktop.
- Accessing Help.
- Viewing disk contents and files.
- Creating and Organizing folders
- Use Windows Explorer to manage file operations, moving, copying an deleting.
- Discuss the use of the Control Panel, Task Bar and the Print Manager, and be able to use them to manage their environment.
- Use the recycle bin.
- Find files.
- Caring for files and disks.
- Using the right click mouse button, short cuts.
- Use OLE and Active X.
- Install/remove programs and hardware.
- Discuss techniques to make life easier in a Windows 95 environment.

V. REQUIRED RESOURCES:

Same resources as in CSO100, plus

Windows 95 for Busy People, second edition, by: Ron Mansfield

VI. METHOD OF EVALUATION

20%   DCL QUIZ
20%   DOS QUIZ
20%   WINDOWS TEST
36%   3 ASSIGNMENTS at 12 % each.
4%   Participation

* Attendance:

Absenteeism will affect a student's ability to succeed in this course. Attendance is encouraged because many things are discussed and learned that may not be specifically evaluated on tests. Absences due to medical or other unavoidable circumstances should be discussed with the instructor, so that comparable activities can be scheduled.

1. TESTS

Written tests will be conducted as deemed necessary; generally at the end of each block of work. They will be announced about one week in advance. Practical on-line tests will be conducted in which time to complete the assigned problems will be a factor in the evaluation.

2. ASSIGNMENTS

Late assignments are subject to a ZERO grade unless PRIOR consent is granted by the instructor.

3. GRADING SCHEME

A+   90 - 100%   Outstanding achievement
A   80 - 89%   Excellent achievement
B   70 - 79%   Average Achievement
C   60 - 69%   Satisfactory Achievement
R   Repeat
X   A temporary grade.