SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON

COURSE OUTLINE

Course Title: Operating Systems II

Code No.: CSO101   **Semester: 2**

Program: Computer Studies

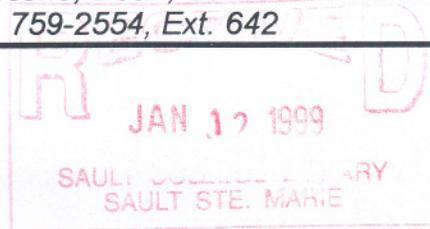**Author: Willem de Bruyne**

Date: January/99   **Previous Outline Date: January/98**

Approved: _K. DeFusario_   _Dec. 22/98_
            Dean   **Date**

Total Credits: 5   **Prerequisite(s): CSO100**
Length of Course: 16wks   **Total Credit Hours: 64**

PREREQUISITES: CSO100

LENGTH OF COURSE: 4 HOURS PER WEEK

TOTAL CREDITS: 5

I. Course Description:

This course is designed into four operating systems modules that will focus on: D.O.S. internal and external commands, and the writing of Batch files; V.M.S. and its command set and environment, and the writing of Command procedures; UNIX (Linux) and its essential command set and environment, and the writing of Scripts; Windows 95 focusing on the Explorer, Control Panel, Network Neighborhood, and finding files.

II. LEARNING OUTCOMES AND ELEMENTS OF PERFORMANCE:

A. Learning Outcomes:

1. Demonstrate writing DOS batch files, understanding Path, Internal/External commands, and the purpose of the Autoexec.bat and Config.sys files.

2. Demonstrate writing Command Procedures using DCL that utilize advance features of the VMS operating system, as well as fully understanding the File Specifications.

3. Demonstrated writing UNIX scripts and understanding the basic command set of the operating system.

4. Demonstrate the abilities to utilize Windows 95 to run programs, manage files, understand the Control Panel and Network Neighborhood.

B.   **Learning Outcomes with Elements of Performance**:

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

1. Demonstrate writing DOS batch files, understanding Path, Internal/External commands, and the purpose of the Autoexec.bat and Config.sys files.

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.
➢ Understand directory structures and the full path to files.
➢ Demonstrate the processes for compressing/uncompressing a file.
➢ Create a bootable disk and describe the function of IO.SYS, MSDOS.SYS, COMMAND.COM. Focus on Format C: Format A:/S and SYS A:
➢ Discuss the purpose of the Autoexec.bat and Config.sys files.

2. Demonstrate writing Command Procedures using DCL that utilize advance features of the VMS operating system, as well as fully understanding the File Specifications.

Potential elements of performance:

➢ Discuss the VMS process, and ways in which command procedures can interact with each other and the user.
➢ Describe the file specifications in the DCL environment.
➢ Utilize the basic DCL command set.
➢ 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.

3. Demonstrated writing UNIX scripts and understanding the basic command set of the operating system.

Potential elements of performance:

➢ Describe the basic Unix commands.
➢ Creating and moving through directories.
➢ Managing files.
➢ Work with the standard input and output; pipes, concepts, redirection
➢ Editing of files
➢ Examine the X Window System
➢ Understand file types, regular files, links, directory, and hidden.

4. **Demonstrate the abilities to utilize Windows 95 to run programs, manage files, understand the Control Panel and Network Neighborhood.**

Potential elements of performance:

➢ Describe the general organization of Windows 95 environment.
➢ 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.
➢ Find files.
➢ Caring for files and disks.

V. REQUIRED RESOURCES:

➢ Check with instructor.

VI. METHOD OF EVALUATION

18% DCL QUIZ
18% DOS QUIZ
18% UNIX QUIZ
18% WINDOWS QUIZ
4% DOS ASSIGN.
4% DCL ASSIGN.
4% UNIX ASSIGN.
4% WINDOWS ASSIGN.
12% MAJOR ASSIGN (Comparison of the operating systems)

● 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. TEST 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	55 - 69%	Satisfactory Achievement
R	Repeat	

...judged as deemed necessary, generally at the ...
... be announced about one week in advance. Pre...
... which time to complete the assigned problems

... signments are scored to a ZERO grade unless ...
... is granted by the instructor.