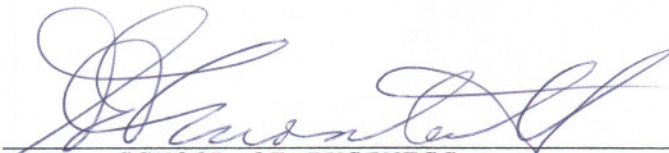SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE OUTLINE:	INTRODUCTION TO OPERATING SYSTEMS
CODE NO.:	EDP 111
PROGRAM:	COMPUTER PROGRAMMER
SEMESTER:	TWO
DATE:	JANUARY, 1991
PREVIOUS OUTLINE DATED:	JANUARY, 1990
AUTHOR:	WILLEM DEBRUYNE

NEW: _____   REVISION: __X_____

APPROVED: _____   91-01-14
          DEAN, SCHOOL OF BUSINESS &   DATE
                 HOSPITALITY

INTRODUCTION TO OPERATING SYSTEMS   EDP 111
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          COURSE NAME   COURSE NUMBER

INSTRUCTOR: WILLEM DEBRUYNE

TIME: 4 HOURS PER WEEK

RESOURCE(S):   - Text: "Using VAX/VMS", J. Diamondstowe
               - Teacher's notes
               - VAX/VMS manuals

AIM: To provide step-by-step instruction in VAX/VMS concepts
               and commands. To develop skills such as:
                    - accessing, maintaining, and manipulating files
                    - performing text editing
                    - creating command procedures

At the end of each module, students should be able to:

MODULE 1:   Identify the components of the VMS working environment
               that carry out a job, including:
                    1. the parts of the VAX computer hardware
                    2. VAX/VMS operating system
                    3. characteristics of the interactive process
                    4. the definition of a job

MODULE 2:   Effectively use the interactive features of VMS, in
               particular:
                    1. use DCL to make VMS do simple jobs
                    2. interpret VMS error messages
                    3. use the DCL command line editing feature to
                        correct a command line
                    4. use the VMS hold facility and VMS documentation
                        to obtain information about DCL commands
                    5. communicate with other interactive users
                    6. obtain and interpret information about the
                        system, process and terminal

INTRODUCTION TO OPERATING SYSTEMS   EDP 111
-----------------------------------   ---------------
            COURSE NAME   COURSE NUMBER

MODULE 3:   Effectively use the VAX/VMS system, in particular:
          1.   create and modify a text file using line mode
          2.   list the features of the editor

MODULE 4:   Store and retrieve the many files created when programs
          are developed, and to protect them from unauthorized
          use, specifically:
          1.   locate files in directories
          2.   locate directories in directory trees
          3.   add files and remove files from a directory
          4.   control user access to files

MODULE 5:   Design and use data bases consisting of sequential
          files, then:
          1.   sort records within a file
          2.   merge files

MODULE 6:   Reduce keystrokes by defining terminal keys.
          Perform simple input and output, and to make file
          references devices- independent using:
          1.   logical names
          2.   create and use logical names for file access

MODULE 7:   Familiarizes the user with:
          1.   creating a text file containing source
               statements of a program
          2.   compile the text file to create a file
               containing object code
          3.   link the object file(s) to produce a file
               containing executable code
          4.   run the executable image produced from the
               linker

INTRODUCTION TO OPERATING SYSTEMS   EDP 111
----------------------------------   ---------------
         COURSE NAME   COURSE NUMBER

MODULE 8:   Effectively write command procedures to automate complex
               interactive tasks, in particular:
               1. follow the command procedure development steps
               2. control I/O in a command procedure
               3. create and access sequential files from a
                   command procedure
               4. manipulate symbols for constants and variables
                   in a command procedure
               5. control the execution of a command procedure
               6. develop a command procedure that executes other
                   command procedures

MODULE 9:   Use the most fundamental ULTRIX operating system commands
               to:

               1. determine file types
               2. obtain on-line information
               3. understand file and directory structure
               4. set file protection

STUDENT EVALUATIONS:

The student's final grade will be determined from the following
components:

               1 Final test   @ 20%   20%
               10 Quizzes   @ 6%   60%
               5 Assignments   @ 4%   20%
                                             _____
                                             100%

               A+   90-100%
               A   80-89%
               B   70-79%
               C   55-69%
               R   0-54%

NOTE: Students are expected to attend classes regularly, participate
       in class discussion, conduct themselves and treat their peers
       and instructor in a professional businesslike manner throughout
       any school dealings.

       Late assignments are subject to a zero grade unless the student
       has prior permission from the instructor to hand the assignment
       in at a later date. Tests must be written on the assigned time
       and date. Students will receive a mark of zero if they miss a
       scheduled test unless the student and instructor have a
       prearranged contract to write the test after or before the
       scheduled   test   time.