SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: INTRODUCTION TO OPERATING SYSTEMS

Code No.: EDP 107-2

Program:

Semester:

Date: SEPTEMBER 1983

Author: J. DICKS

New: _____ Revision: X

APPROVED: _____ Dept 83
Chairperson Date

DISKETTE #3
SECTION 19

INTRODUCTION TO OPERATING SYSTEMS	EDP 107-2
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OBJECTIVES:

This course will focus on the interrelationship between the systems hardware, software and personnel. Students who meet the course objectives will understand how the field of operations and operating systems relates and interfaces with systems design and programming.

GRADING:

80 - 100% ..... A
70 - 79% ..... B
55 - 69% C
less than 55% ..... Incomplete grade

Marks will be determined by:

a)	tests -- 2	60%
b)	a series of assignments to be completed on the computer	30%
c)	attendance and class participation	10%
		100%

TEXTBOOK(S):

Computer Operations, Procedures & Management -- Marjorie Leeson

Additional O/S notes prepared expressley for the DEC VAX 11/780

COURSE MATERIAL:

I. Introduction to D/P and Computer Operations:

- computer technology
- 20 years of progress (1962-82)
- the new generation of computers
- computer systems
- hardware
- software
- personnel

II. Computer Operations:

- areas within the data processing department
- responsibilities of operations personnel
- additional job descriptions
- code of ethics
- classifying computer systems

III. Documentation:

- basic functions of documentation
- systems installation - checklist
- who does the documentation
- the standard manual
- examples of operations

II

Operation of a Computer System

IV. Terminals:

- operations of a terminal
- tasks assigned to terminals
- types of terminals
- common features of terminals
- control input
- responsive operators
- additional features of terminals
- the effect of spooling

V. Printers:

- selecting printers
- types of printers
- operation of a typical impact printer
- operator's responsibility for maintenance
- additional features found on some printers

VI. Direct Access Storage Devices:

- characteristics of DAS
- file organization
- areas reserved on disk for special functions
- file security
- the operating system and direct access files
- J.C.L.
- console messages
- utility programs
- mounting a disk pack

VII. CPU, SYSRES and Console Operations:

- the C.P.U.
- Job execution and SYSRES
- initial program load
- C.P.U. control and indicator
- console operations
- restart procedures
- abend reports

VIII. Operating Systems:

- operating systems
- role of the supervisor
- library management and maintenance facilities
- J.C.L.
- assemblers, compilers and interpretors
- linkage editor
- utilities
- channel management
- scheduling features
- job accounting

IX. Micro-computer Systems:

- an overview
- why the revolution
- what is a personal computer
- micro-computer system peripherals
- typical systems
- obtaining a system
- survey of users

X. Timesharing, Hardware, Software and Management:

- the PDP-11 family
- a successful timesharing system
- operating systems
- system manager
- the user and the system

XI. Additional topics will be introduced throughout the course dealing with specific operating system procedures as they related to the VAX 11/780