_____SOUTH SEATTLE COMMUNITY COLLEGE_____

Technical Education Division

COURSE OUTLINE
Revision: C. Koepke, September, 2009

DEPARTMENT:	Technical Education
CURRICULUM:	Computing Technology
COURSE TITLE:	Operating Systems II
COURSE NUMBER:	CTN 142
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	1 quarter
CREDIT HOURS:	5
LECTURE HOURS:	55
LAB HOURS:	0
CLASS SIZE:	24
PREREQUISITES:	CTN 141 Operating Systems I

COURSE DESCRIPTION:

Study of the implementation and administration of Windows 2000 Professional and to help prepare for the Microsoft Certified Professional (MCP) 70-210 exam. General operating systems concepts applicable to all operating systems including file; memory; I/O; and process management methods is taught. Specific topics that reveal how the modern Windows operating systems are designed and function are included.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Technology - Demonstrate problem solving and network design by utilizing critical thinking skills.
2. Human Relations - Use social interactive skills to work in teams effectively
3. Personal Responsibility - Be able to demonstrate time management skills and independent work habits.
4. Personal Responsibility -: Recognize the need to continue to learn computer hardware and software and adapt to industry changes
5. Information literacy - Access and evaluate information from a variety of sources and contexts

CTN 142 Operating Systems II
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GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Know the basic theories of all operating systems structure and how an operating system manages the computer systems.
2. Understand the principles of Plug and Play and how operating systems manage PnP.
3. Be able to install, configure and troubleshoot Windows 2000 Professional.
4. Be able to analyze and repair problems with older Microsoft Windows operating systems
5. Have gained knowledge for basic manipulation of several different non-Microsoft operating systems

TOPICAL OUTLINE:		APPROX. HOURS
I.	Principles of Plug and Play (PnP) vs. legacy systems	5
II.	Operating Systems Theory and Concepts	30
a.	Process Management including:	
b.	Memory management including:	
c.	File system management	
d.	Input/Output with respect to device control	
III.	Practical Application (Windows 2K)	20
a.	version and licensing; installations methods and planning	
b.	PnP device installation and removal	
c.	Registered file types (Associations)	
d.	How Windows 98/ W2k runs ‘behind the scene’ (technical behavior)	
e.	Using Microsoft Management Console	
f.	OLE with respect to the role Windows plays	
g.	The Windows Registry	
h.	Disk management with FAT, FAT32, NTFS and dynamic drives	
i.	Introduction to Active directory	
j.	User accounts and groups; Permissions and shared folders	
k.	Disk quotas and data storage	
	Total	55 hours

REVISED BY: C. Koepke
DATE: September, 2009