

**Program Planning Guide**  
**Network Operating System Certificate (C25590N0)**

Program Length: 2 semesters

Career Pathway Options: Associate in Applied Science Degree in Information Technology Network Management; Diploma in Information Technology Network Management; Certificate in Network Operating System.

Program Sites: Lee Main Campus, day and selected distance

	Class	HOURS			Grade	Semester	Notes
		Lab	Credit				
1 <sup>st</sup> Semester (Spring)							
NOS 120	Linux/UNIX Single User	2	2	3			
NOS 230	Windows Admin I	2	2	3			
		4	4	6			
2 <sup>nd</sup> Semester (Fall)							
NOS 130	Windows Single User	2	2	3			
NOS 220	Linux/UNIX Administration I	2	2	3			
		4	4	6			

Total Semester Hours Credit: 12

**Course Descriptions:**

**NOS 120 Linux/UNIX Single User 2-2-3**

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.

**NOS 130 Windows Single User 2-2-3**

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/ optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

**NOS 220 Linux/UNIX Administration I 2-2-3**

*Prerequisite: NOS 120*

This course introduces the Linux file system, group administration, and system hardware controls. Topics include installation, creation and maintaining file systems, NIS client and DHCP client configuration, NFS, SMB/Samba, Configure X, Gnome, KDE, basic memory, processes, and security. Upon completion, students should be able to perform system administration tasks including installation, configuring, and attaching a new Linux workstation to an existing network.

**NOS 230 Windows Administration I 2-2-3**

This course covers the installation and configuration of a Windows Server operating system. Emphasis is placed on the basic configuration of core network services, Active Directory and group policies. Upon completion, students should be able to install and configure a Windows Server operating system.