



### Course Information

Division	Business
Contact Hours	45
Total Credits	3

### Prerequisites

CIS 130 Introduction to Computer Information Systems

### Course Description

This course emphasizes the study of operating systems for personal/client computers. Topics include: Command Line vs. Graphical User Interfaces operating systems installation, operating system management, and day-to-day operating systems functionality. Operating systems discussed in this course will include a commercially accepted client and an open source client. This course will enhance students' understanding of PC operations.

### This course is a required core course for students pursuing an:

AAS in System Administration Specialist  
AAS in Cybersecurity and Information Assurance  
AAS in PC Support Technician

### Course Outcomes

In order to evidence success in this course, the students will be able to:

Implement and Administer a commercial client operating system;  
Navigate and Manage a commercial client OS's file structure;  
Create and Manage a commercial client OS's user accounts;  
Implement and Administer an open source client operating system;  
Navigate and Manage an open source client's OS's file structure;  
Create and Manage an open source client's OS's user accounts;

### Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

#### Cybersecurity and Information Assurance

Install, configure, use, troubleshoot and maintain microcomputer operating systems.  
Demonstrate a basic understanding of networks and computer security in the business environment.  
Configure basic TCP/IP networking services on computers in the workplace.

#### System Administration Specialist

Install, configure, use, troubleshoot and maintain microcomputer operating systems.  
Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.  
Demonstrate a basic understanding of networks and computer security in the business environment.  
Configure basic TCP/IP networking services on computers in the workplace.



### PC Support Technician

Trouble-shoot and fix computers and their peripherals along with their operating systems that are used in today's businesses.

### Cybersecurity and Information Assurance

1. Implement and Administer a commercial client operating system;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.  
  
Demonstrate a basic understanding of networks and computer security in the business environment.  
Configure basic TCP/IP networking services on computers in the workplace.
2. Navigate and Manage a commercial client's OS file structure;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.
3. Create and Manage a commercial client's OS user accounts;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.
4. Implement and Administer an open source client operating system;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.  
  
Demonstrate a basic understanding of networks and computer security in the business environment.  
Configure basic TCP/IP networking services on computers in the workplace.
5. Navigate and Manage an open source client's OS file structure;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.
6. Create and Manage an open source client's OS user accounts;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.

### System Administration Specialist

1. Implement and Administer a commercial client operating system;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.  
  
Demonstrate a basic understanding of networks and computer security in the business environment.  
Configure basic TCP/IP networking services on computers in the workplace.



2. Navigate and Manage a commercial client's OS file structure;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.
3. Create and Manage a commercial client's OS user accounts;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.
4. Implement and Administer an open source client operating system;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.  
  
Demonstrate a basic understanding of networks and computer security in the business environment.  
Configure basic TCP/IP networking services on computers in the workplace.
5. Navigate and Manage an open source client's OS file structure;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.
6. Create and Manage an open source client's OS user accounts;  
Applies to Program Outcome  
Install, configure, use, troubleshoot and maintain microcomputer operating systems.

### PC Support Technician

1. Implement and Administer a commercial client operating system;  
Applies to Program Outcome  
Trouble-shoot and fix computers and their peripherals along with their operating systems that are used in today's businesses.

Date Updated: 1/14/20  
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