

BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY

COMPUTER SECURITY



PROGRAM LOCATION

Davenport University

SESSION OFFERED

AM

AVERAGE LECTURE DAYS/WEEK

2-3 days

AVERAGE LAB DAYS/WEEK

2-3 days

HOMEWORK

Weekly

REQUIRED READING

College level textbook
25+ pages/week



**EXPLORE THE POSSIBILITIES.
FAST TRACK YOUR FUTURE.**

In the first semester, this program is a general overview of microcomputer operating systems. Emphasis is on operating system concepts, management, maintenance, and resources required. Topics covered include installing, configuring, and administering Microsoft Windows client and server operating systems, creation of batch files or scripts, customizing and troubleshooting a computer system, and managing files and disks. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.

The second semester this program will provide an overview of information security from both the perspectives of the organization and that of personal computing. Topics include security management practices, physical security, security architecture, business continuity and disaster recovery planning, access control systems, security controls, cryptography, telecommunications and network security, operations security, law and ethics, and personal computer security.

EXPECTED STUDENT OUTCOMES

- Describe computer operating systems, including processes, multi-programming, the development of operating systems.
- Demonstrate how to use essential text-based commands, and command-line interface including file and disk management: batch file use, customizing and configuring a system, managing memory.
- Demonstrate how to perform the following with a Graphical User Interface: file and disk management; troubleshooting; customizing the environment; launching batch files and DOS sessions from windows environment; run system utilities.
- Describe the procedure to install and upgrade Microsoft Windows operating systems.
- Illustrate how to maintain a Windows installation by installing devices, running system utilities such as defrag and backup, and installing patches and software.
- Describe several operating systems currently used on PC's, including variations of Windows, LINUX, Macintosh, or others.
- Demonstrate troubleshooting techniques to solve operating system problems.
- Demonstrate basic networking and security concepts and troubleshooting techniques.
- Describe mobile devices and their effects on current trends in today's operating systems.
- Describe virtualization as it relates to operating systems
- Use the Microsoft Management Console and Control Panel to create users and groups
- Discuss & configure security models and policies
- Manage access to network resources
- Configure Remote Desktop and Remote Assistance
- Discuss the rationale and methods for controlling access to network systems.
- Discuss software application and database security issues.

CAREERS

Computer Network Support Specialist
Computer User Support Specialist
Computer System Analyst

MEDIAN WAGE

Computer Network Support: \$15.83 hourly
Computer User Support Specialist: \$18.95 hourly
Computer System Analyst: \$16.86 hourly

EMPLOYMENT OUTLOOK

Faster than average, 10% to 14%

SUCCESS INDICATORS

Have strong problem solving skills, like to work with computers and technology, highly organized, effective in a team setting and individually.

STUDENT LEADERSHIP

Students have the opportunity for leadership, competition, and community service through membership in SkillsUSA.

12 COLLEGE CREDITS

ACES 100 - Achieving Career & Academic Success
NETW 101 - PC Operating Systems
NETW 141 - MS Client & Server OS
IAAS 221 - Security Foundations

ACADEMIC RIGOR

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CAPITAL REGION TECHNICAL EARLY COLLEGE

Students enrolled in this program may choose to participate in the Capital Region Technical Early College (CRTEC). Capital Region Technical Early College is a high school-to-college program where students start in grade 11 and leave in grade 13 with a college degree or certification. The program gives students relevant career-related experience.



ENROLL NOW!

CONTACT YOUR COUNSELOR OR CALL 517.483.9966

WWW.EATONRESA.ORG/CPC