



CIS 1122

Division: Career and Technical Education

Department: Computer Information Systems

Course: CIS 1122

Title: PC Operating Systems

Catalog Description:

This course is intended to provide a thorough, step-by-step process for learning the fundamentals of supporting and troubleshooting computer operating systems. The course takes a hands-on approach to learning the steps to installing, troubleshooting and supporting the most common operating systems in use on the personal computer. In addition to explaining concepts, the course uses a multitude of real world examples of problems and issues related to operating systems, making it a practical preparation for the real world.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: 3; Lecture: 3; Lab: 0

Clock/Hour Requirements: 45

Offered for Non-Credit: No

Prerequisites: N/A

Justification:

This course is recommended by the program advisory committee and is a prerequisite for other CIS courses. This course helps prepare students for job readiness at graduation and/or transfer to some advanced training institutions.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Identify and Compare Different Operating Systems
- Describe How an Operating System works with Hardware and Other Software
- Describe, in detail, the Boot Process and Command Line
- Perform Basic Support Tasks related to Windows 9x
- Install Windows 2000 and Windows NT
- Manage and Troubleshoot Windows 2000
- Install and Use Windows XP Professional
- Manage and Support Windows XP
- Manage Memory
- Support Hard Drives
- Manage Windows on a Network
- Manage Windows on the Internet
- Install and Configure Printers
- Install and Use the Mac OS, and Linux

Content:

Course objectives will be accomplished by providing students with learning experiences in the following subject areas:

- Introducing and Comparing Operating Systems
- How an OS works with Hardware and Other Software
- Understanding the Boot Process and Command Line
- Supporting Windows 9x
- Understanding and Installing Windows 2000 and Windows NT
- Managing and Troubleshooting Windows 2000
- Installing and Using Windows XP Professional
- Managing and Supporting Windows XP
- Managing Memory
- Supporting Hard Drives
- Windows on a Network
- Windows on the Internet
- Printers, the Mac OS, and Linux

General Education Outcomes:

5) Apply a cultural and historical awareness to a variety of phenomena.

Students will be aware of the changing nature of the computer field and how it impacts the use of dated software with newer and older hardware. An awareness of the history and development of computers is a must for professional preparation.

Key Performance Indicators:**In Class:**

Student grades will be based on a combination of lab exercises (5-25%), quizzes (5-25%), tests (10-50%), and a final exam or project (20-50%).

Following Class

Post evaluation will be measured by subsequent student success in classes where students are expected to be familiar with personal computer operating systems. Student scores on the CompTIA A+ Service Technician Certification Exam will also indicate student success in this course.

Representative Text and/or Supplies:

Andrews, A+ *Guide to Software: Managing, Maintaining, and Troubleshooting*, Current Edition, Thomson.

Optimum Class Size: 16

Maximum Class Size: 16

Signatures:

I hereby submit this course syllabus:

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I hereby find this course consistent with the goals and resources of the Computer Information Systems Department:

Michael P. Medley, MBA, Assistant Professor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)