



CIS 1402

Division: Career and Technical Education

Department: Computer Information Systems

Course: CIS 1402

Title: Network Administration - Server Administration

Catalog Description:

In this course students acquire the knowledge and skills necessary to install, configure, and troubleshoot fundamental server hardware and services in a vendor-neutral environment. Students will develop advanced technical knowledge in areas such as RAID, SCSI, and multiple CPUs.

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: CIS1140

Justification:

Networks and Intranetworks are becoming an integral part of our country's industrial infrastructure. This course prepares students for job readiness at graduation and/or transfer to some advanced training institutions and has been recommended by our program advisory committee.

Student Learning Outcomes:

Through successful completion of this course, students will:

- Conduct pre-installation planning and carry out Network and Server Installation.
- Configure Network connectivity and install and configure network operating systems.
- Upgrade system components, including: processors, hard drives, memory, BIOS, adapters, etc.
- Perform proactive maintenance tasks, including: backups, performance checks, housekeeping, remote notification, etc.
- Recognize and report on environmental considerations.
- Demonstrate industry standard techniques in troubleshooting and problem determination.
- Demonstrate proper planning for disaster recovery.

Content:

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

- Network and Server Installation
- Configuration of Network and Server
- Upgrading System (processors, hard drives, memory, BIOS, Adapters, etc.)
- Proactive Maintenance (backups, performance checks, housekeeping, remote notification, etc.)

- Environmental Considerations
- Troubleshooting and Problem Determination
- Disaster Recovery

General Education Outcomes:

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 the hardware and services of server systems. Students may choose to certify with CompTIA's Server+ Technician Certification Exam. Performance on this exam will also indicate student success with this course.

Representative Text and/or Supplies:

Text to be determined by the instructor. Supplemental materials may be required/suggested.

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)