



CIS 1402

Division: Career and Technical Education

Department: Information Technology

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: 1

Clock/Hour Requirements: 60

Offered for Non-Credit: Yes

Prerequisites: CIS 1140

Corequisites: N/A

Justification:

Networks and Intra networks 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:

Applied Education Outcomes:

1) Students will acquire entry-level skills specific to and appropriate for employment in their chosen field of study.

Students will acquire entry-level skills specific to installing, configuring, and troubleshooting server hardware.

2) Students will become aware of industry specific certification and develop skills sufficient to acquire the same.

Students will become aware of the vendor-neutral CompTia Server+ certification and will develop skills sufficient to acquire the same.

Key Performance Indicators:

Student Learning Outcomes will be assessed by two or more of the following Key Performance Indicators:

- lab exercises
- quizzes
- tests
- exam or project.
- subsequent classes where students are expected to be familiar with the hardware and services of server systems.
- 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:

- Testout Labsim software: Server+
- Supplemental materials to support the hands-on lab activities

Optimum Class Size: 16

Maximum Class Size: 16

Signatures:

I hereby submit this course syllabus:

Michael P. Medley, MBA, Assistant Professor

I hereby find this course consistent with the goals and resources of the Information Technology 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)