



## CIS 1401

**Division:** Career and Technical Education

**Department:** Information Technology

**Course:** CIS 1401

**Title:** Network Administration - Client/Server

**Catalog Description:**

In this course students acquire the knowledge and skills necessary to install, configure, customize, optimize, network, and troubleshoot client and server operating systems in a vendor-neutral environment.

**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:** CIS1140

**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:**

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

- install and configure server operating systems
- install and configure client operating systems
- troubleshoot failed installations
- monitor, manage, and troubleshoot access to files and folders
- connect and manage local and network print devices
- configure and manage user profiles
- implement, manage, and troubleshoot disk devices
- implement, manage, and troubleshoot display devices
- implement, manage, and troubleshoot mobile computer hardware
- implement, manage, and troubleshoot accessibility services
- implement, configure, manage, and troubleshoot local user accounts
- implement, configure, manage, and troubleshoot network security.

**Content:**

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

- install and configure server operating systems
- install and configure client operating systems
- troubleshoot failed installations
- monitor, manage, and troubleshoot access to files and folders
- connect and manage local and network print devices
- configure and manage user profiles
- implement, manage, and troubleshoot disk devices
- implement, manage, and troubleshoot display devices
- implement, manage, and troubleshoot mobile computer hardware
- implement, manage, and troubleshoot accessibility services
- implement, configure, manage, and troubleshoot local user accounts
- implement, configure, manage, and troubleshoot network security.

**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 necessary to install, configure, customize, optimize and network a client/server architecture.

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

Students will become aware of industry client/server certification to include Microsoft, Linux and others.

**Key Performance Indicators:**

Upon successful completion of this course, students will be able to learn how to accomplish fundamental network management tasks on a NetWare 5.1 network.

- Student grades will be based on a combination of lab exercises, quizzes, tests, and a final exam or project.
- Post evaluation will be measured by subsequent classes where students are expected to be familiar with the client/server networks.

**Representative Text and/or Supplies:**

- Testout Labsim software: MCITP Windows Server 2008 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:

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Michael Medley, MBA, Instructor

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

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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:

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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:

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

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)