FLCC Course Syllabus

General Information

Date
11/03/2016

Department
Computing Sciences

Course Prefix:
CSC

Course Number:
231

Course Title:
Systems Administration

Course Information

Credit Hours
3

Lecture Contact Hours
3

Catalog Description
The interconnections of computer systems, including hardware, software, and networks, on both small and large scales, requires a systems administrator's management and troubleshooting skills. The installation and maintenance of clients and servers, storage, backup, processing, and in some cases, networking, fall square on the shoulders of the systems administrator. When things go wrong and are in immediate need of a fix, the systems administrator's problem solving skills are tested, usually with no time to spare and lots of stress. This extensive hands-on course is designed to provide students the essential knowledge and skills to be successful system administrators. Students will install and configure a network operating system (NOS); use Active Directory to manage accounts; configure, manage, and troubleshoot resource access; configure network printing; configure and manage data storage; manage network services; configure remote access services; secure operating systems; monitor servers and networks; and manage system reliability and availability. In addition, virtualization software, Hyper-V, will be installed, configured, and used.

Prerequisites
CSC 260

Grading Scheme
Letter Grade

FLCC Values
College Learning Outcomes Addressed by the Course

Inquiry
Vitality
Perseverance

Course Learning Outcomes

Course Learning Outcomes

1. Install and configure a network operating system
2. Configure and manage network services
3. Troubleshoot problematic services

Program Affiliation

This course is required as a core program course in the following program(s)

AAS Information Technology

Outline of Topics Covered

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I. Introduction to a network operating system
II. Installing a network operating system
III. Configuring the Environment
IV. Introduction to Active Directory and Account Management
V. Configuring, Managing, and Troubleshooting Resource Access
VI. Configuring Printing
VII. Configuring and Managing Data Storage
VIII. Managing Network Services
IX. Configuring Remote Access Services
X. Securing a network operating system
XI. Server and Network Monitoring
XII. Managing System Reliability and Availability