

CATALOG INFORMATION

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Dept & Nbr: CSC 110 Title: NETWORK OPERATE SYSTEM
Full Title: Network Operating Systems

Units	Course Hours	Per Week	Nbr of Weeks	Course Hours	Total
Max: 3.0	Lecture	2.5	17	Lecture	42.5
Min: 3.0	Lab	1.5		Lab	25.5
	Contact DHR	0.0		Contact DHR	0.0
	Contact Total	4.0		Contact Total	68.0
	Non-contact DHR	0.0		Non-contact DHR	0.0

Title 5 Category: 01 AA Degree Applic
Grading: GC Credit course for grade or CR/NC
Repeatability: 02 3 ENROLLMENTS
Also listed as:

CATALOG DESCRIPTION:

Learn how to install and administer a Local Area Network (LAN) operating system. Topics include configurations and architectures, protocols, network operating systems, sharing network devices, and software, monitoring, maintenance, security, and other server file system topics. Become familiar with the tools and concepts of this exploding area of computing. Course may not meet major requirements at transfer institutions. See your counselor for more information.

PREREQUISITES:

COREQUISITES:

RECOMMENDED PREPARATION:

Computer literacy

LIMITS ON ENROLLMENT:

SCHEDULE OF CLASSES INFORMATION:

Recommended: Computer literacy

Networks are everywhere! Learn how to install, maintain and configure a computer network. Other topics include security systems, sharing devices and software, server file topics, and network operating system. Acquire skills in this fast growing area of computing with many new job opportunities. Course may not meet major requirements at transfer institutions. See your counselor for more information. (Grade or CR/NC) (Repeat Code 2)
Transfer Credit: CSU.

ARTICULATION and CERTIFICATE INFORMATION

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ASSOCIATE DEGREE: Effective: Inactive:
Area:

CSU GE: Effective: Inactive:
Transfer area:

IGETC: Effective: Inactive:
Transfer area:

CSU TRANSFER: TRANSFERABLE Effective: FALL 1981 Inactive:

UC TRANSFER: Effective: Inactive:

CAN:

CERTIFICATE APPLICABLE: N NOT CERTIFICATE/MAJOR APPLICABLE

APPROVAL AND DATES

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Version 01 Submitted by: TONIA WIDLER Date: 06/01/1981
Department approved: Date:
Curriculum approved: 06/01/1981 Version approved: 06/01/1981
Prerequisites approved: 06/01/1981 Last reviewed: 06/01/1981
Term effective: FALL 1981 Last taught: FALL 2007 Inactive:

COURSE CONTENT

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OUTCOME AND OBJECTIVES:

1. Evaluate the components of a Local Area Network (LAN) as demonstrated by laboratory assignments.
2. Create and install a LAN operating system with applications
3. Administer a LAN, which includes establishing user accounts, and securities, documenting the network configuration, and adding print devices to the network.

TOPICS AND SCOPE:

1. Network theory - standards
2. LAN Evaluation - choosing a system. Hardware, Network Operating Systems, Workstations and Servers
3. Applications on the Network - Applications programming interfaces, electronic mail (e-mail), groupware, Distributed Data Services
4. Internetworking and the Host connection
5. Network management - Installation, performance, maintenance and diagnostics
6. Security and Reliability

ASSIGNMENTS:

READING ASSIGNMENTS:

Students are required to read and study the assigned materials.
Examples of appropriate reading are: Hands-On Microsoft Windows NT 4.0 Server with Projects by Michael J. Palmer

WRITING ASSIGNMENTS:

Students are required to submit documentation materials as appropriate
Substantial writing is inappropriate because the course primarily involves the application of skills learned in the course.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of two hours of independent work out of class for each unit of lecture credit by doing the following:

1. Creating networks utilizing the techniques and concepts discussed in class.
2. Reading assignments as assigned.

3. Completion of assigned exercises for each unit of instruction.
ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING:

1. Translate a verbal assignment in the logical steps needed to complete the assignment.
2. State the logic used in a process.
3. Analyze the processes and information necessary to evaluate an effective LAN system.

METHOD OF INSTRUCTION:

Lectures, demonstrations, group activities, hand outs, reading assignments, class discussion.

METHODS OF EVALUATION:

1. Skill demonstration will constitute at least 40% of the grade. 2. Quizzes, tests, evaluation of in-class projects. 3. Comprehensive final exam will constitute at least 10% of the grade.

BASIS FOR GRADING:

The assignment of a grade is based on the level of achievement of the outcomes and objectives of the course outline and is reflected in quantifiable terms in the course syllabus.

REPRESENTATIVE TEXTBOOKS:

Windows NT Server 4 Concepts & Practice, by Joseph Williams. Paperback 1999; Que E&T of Macmillan Computer Pub.