CIS 1140

Division: Career and Technical Education
Department: Computer Information Systems
Course: CIS 1140
Title: Networking Technologies
Catalog Description:
In this course, students will learn the basic concepts and prerequisites of network computing, including hardware, software, topologies, and the Open Systems Interface (OSI) reference model.
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: CIS 1120 or department approval

Corequisites: None

Justification:

Networks and intranetworks are becoming an integral part of our country s industrial infrastructure. Since 1992 the computer/telecommunications industry has grown 14 times faster than the total industrial production. No other sector contributes nearly as much to the growth of the economy. The demand for qualified Information Technology (IT) personnel to manage this technological infrastructure will continue to increase dramatically. This course prepares students for job readiness at graduation and/or transfer to a four-year college.

Utah Valley State College: similar course content as CSIS 2040.
Salt Lake Community College: similar course content as CIS 242.
Mesa Community College: similar course content as CIS 191 and CIS 270DA.

Student Learning Outcomes:

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

- learn the basic concepts and prerequisites of network computing
- understand basic network concepts, including hardware, software, topologies, and the Open Systems Interface (OSI) reference model.

Content:

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

- distinguish between different network services
- describe basic transmission media
- explain the OSI model of network computing
- distinguish between the parts of a network
- identify the benefits of various protocols.

General Education Outcomes:

1) Read effectively, constructively, and critically.
Students will be required to read from the assigned text, reference manuals, and industry journals to retrieve, analyze, and synthesize information into design, repair, and troubleshooting situations.

4) Retrieve, evaluate, interpret, and deliver information through a variety of traditional and electronic media.
Students will research technical issues through the internet, industry journals, and reference manuals.

5) Apply a cultural and historical awareness to a variety of phenomena.
Students will be aware of the changing nature of the computer field and how it impacts use of dated software with newer and older hardware. An awareness of the history and development of computers is a must for professional preparation.

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:

- Demonstration of mastery of concepts also is shown by performance in subsequent related courses.
- Scores on the CNE and the MCSE Certification exams will also indicate performance in course.

Representative Text and/or Supplies:

- David James Clarke, IV, *Novell s CNE Study Guide for Core Technologies*, current edition, San Jose, Novell Press.
- Supplementary materials: Current articles from trade literature in this rapidly developing area of technology.

Optimum Class Size: 20
Maximum Class Size: 32

Signatures:

I hereby submit this course syllabus:

_____

, ,

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)