

COCONINO COMMUNITY COLLEGE
COURSE OUTLINE

Created by: Jeff Rhode
Revised by: Jeff Jones
Status: Permanent
Effective Term: Spring 2020

September 11, 1999
September 23, 2019

A. Identification:

1. Subject Area: Computer Information Systems (CIS)
2. Course Number: 228
3. Course Title: Networking Essentials
4. Credit Hours: 4
5. Course Description: Prerequisite: CIS 120. This course provides a general introduction to current network technologies including local area networks (LAN), wide area networks (WAN), and the Internet. Students will acquire a strong foundation of knowledge in network terminology, hardware, software, design, topologies, platforms and protocols. This course helps to prepare students to pass Microsoft's Networking Essentials exam number 70-058. Four lecture.

B. Course Goals:

To help students develop a strong foundation of knowledge with respect to current networking technologies and to help prepare students for Microsoft's Networking Essentials exam #70-058. Designed for students either currently working or wishing to work with networks in the information technology field.

C. Course Outcomes:

Students will be able to:

1. explain networking concepts;
2. effectively deploy, install, and configure networking infrastructure;
3. identify and explain network operations;
4. identify and explain network security;
5. explain networking troubleshooting, tools, and methodologies;

D. Course Outcomes Assessment

Must include:

1. midterm and final exams;
2. graded lab simulations.

E. Course Content

Will include:

1. network terminology, concepts and design;
2. network media;
3. the OSI model and IEEE 802 networking standards;
4. network packets, protocols, and access methods;
5. network architectures;
6. networking software;
7. complex networks, interconnectivity, and multivendor solutions;
8. network administration and support;
9. large scale networks and WANs;
10. and, internet resources.