SUSSEX COUNTY COMMUNITY COLLEGE

Student Learning Outcomes Syllabus

COMS233	INTERNETWORKING DESIGN	
COURSE NUMBER	COURSE TITLE	CLASSIFICATION
3	2	2
CREDITS	CLASS HOURS	LAB HOURS

TEXTS:
    Title: TBD
    Author:
    Publisher:
    Publication Date:

CATALOG DESCRIPTION:
This course builds upon the student's understanding of the basic concepts of networking technology and design. Router; components, commands, setup and configuration are developed and performed by the students. Juniper router operating systems are discussed. Wide Area Networking, routing and routing protocols, IP addressing and network troubleshooting are introduced and discussed.
Lab Fee Required.

PREREQUSITE: COMS230

TOPICS TO BE INCLUDED
        1.   Wide Area Networks
        2.   Router operations
        3.   Router configuration
        4.   Router command line interfaces
        5.   Juniper operating system
        6.   TCP/IP addressing
        7.   IP subnetting

RATIONALE
        This course is the second of four networking courses offered. Routers are introduced and configured in a laboratory setting. Students construct a five-router network and learn how to test serial and Ethernet connections locally via console and remotely by way of Telnet commands. TCP/IP addressing is explained and demonstrated and subnetting is demonstrated and practiced.

COURSE COMPETENCIES/LEARNING OUTCOMES
        1.   Examine a Wide Area Networking (AAS Computer Information Systems – IT Option, Program Goal 2, 3, 6)
        2.   Identify traffic flow of Local Area Network and Internet (AAS Computer Information Systems – IT Option, Program Goal 2, 3, 6)
        3.   Manage router operation (AAS Computer Information Systems – IT Option, Program Goal 2, 3, 6)
        4.   Determine IP addressing and subnetting (AAS Computer Information Systems – IT Option, Program Goal 2, 3, 6)