COURSE DESCRIPTION:
In-depth look at the terminology, technology, and economic realities of Local Area Networks (LANs) and Wide Area Networks (WANs). Network hardware and components will be examined in detail. LAN and WAN design examples will be discussed. Troubleshooting tools and techniques will be presented.

COURSE OBJECTIVES:
Upon completion of this course, the student will be able to:
1. Describe what computer networks are and how they are used.
2. Identify various network strategies and topologies.
3. Identify various hardware components of a computer network and describe their functions.
4. Describe how network software is used to communicate over a network and to use network services.
5. Define standards and protocols and describe how they are used to communicate on a network.
6. Describe how data is transmitted over a network.
7. Identify the OSI model and describe how communication layers interact.
8. Describe what the Internet is and how to use it.
9. Identify the basic functions of network management.
10. Identify future possibilities for computers and computer networks.
11. Provide experiences with installation of different network operating systems.

STUDENT RESOURCES:

ASSIGNMENTS AND TESTS:
Reading assignments are required each week. There will be a total of five (5) homework assignments, fifteen (15) quizzes, one (1) midterm and one (1) final exam. All testing will consist of a combination of multiple choice, fill-in, true/false, and short-answer. LATE homework will NOT be accepted. MISSED quizzes CANNOT be made up.

POLICIES AND PROCEDURES:
Final grades will be determined on an exact percentage scale; there will be no deviation from this scale.

90-100% = A  25%-Quizzes
80-89% = B  25%-Homework
70-79% = C  25%-Midterm Examination
60-69% = D  25%-Final Examination
Below 60% = F

Final grade percentage is determined through a weighted average of quizzes, homework, and tests. Students having the course CREDIT/NO CREDIT must receive 70% or above for CREDIT. It is the STUDENTS RESPONSIBILITY to officially withdraw (DROP) from the class. Students who no longer attend class but do not withdraw will receive a failing grade (F) at semester’s end.