

COURSE PREFIX/NO:	EET 142
COURSE TITLE:	Introduction to Network Servers
LEC HRS/WEEK:	3.0
LAB HRS/WEEK:	0.0
CREDIT HRS/SEMESTER:	3.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION:

This is a study of skills required to install, configure, manage, and troubleshoot network servers. The applications include performance enhancement, network products, and portal services.

COURSE COMPETENCIES:

Upon successful completion of this course, the student should be competent to perform the following tasks:

Module A — Introduction to Networking

- Explain the definition of a Network
- Identify the three major network Classifications – LAN, MAN, WAN
- Identify the basic network Topologies- Bus, Star, Ring, Mesh
- Explain the purpose of the OSI Model
- Explain the different protocols associated with network
- Describe the two methods associated with data transmission – Broadband and Baseband
- List the characteristics of IEEE 802.3 and IEEE 802.5 Standards

Module B — Wireless Technology, Digital Encoding and Data Transmission

- List the advantages and disadvantages of wireless technology
- Describe three transmission techniques used in Radio wave based transmission
- Explain how security is provided in wireless networks
- Relate digital encoding and data packaging to the layers of the OSI model
- Describe various data codes such as ASCII, BCD, EBCDIC, Unicode, HTML etc

Module C — Network Operating Systems

- Describe the common traits of all major network operating systems
- Describe the Windows NT domain model
- Describe the Windows 2000 Server and Windows 2003 Active Directory Structure
- Describe the major features in the UNIX/ LINUX operating system
- Describe the file systems associated with UNIX

Module D — Introduction to Servers and TCP/IP Fundamentals

- Describe the various roles of server in a network environment

- Identify and explain major components that distinguish a server from PCs
- Identify and describe common RAID Systems
- Determine the IP address and subnet mask on a workstation
- Explain the purpose and operation of a Domain Name System

MINIMAL STANDARDS/PERFORMANCE OBJECTIVES:

Module A — Given any Network, the student will be able to understand the Network and identify the networking topologies with 100% accuracy. Given any Network, the student will be able to describe how data is packaged and transmitted, explain the purpose of a general network device such as hub, repeater, switch, gateway etc with 100% accuracy.

Module B — Given any Network, the students will be able to describe the three transmission techniques used in a radio wave transmission with 90% accuracy. Given any Network, the students will be able to describe various data codes such as ASCII, BCD, UNICODE, EBCDIC etc with 100% accuracy.

Module C — Given any Network, the students will be able to describe the common traits of all major network operating system with 90% accuracy. Given a Server, the student will be able to set up user accounts, manage permission, and manage the network security with 80% accuracy.

Module D — Given a server, the students will be able to describe the various roles of a server, identify major components that distinguish a server from a PC with 90% accuracy. Given a Windows Server, the student will be able to assign IP address, and use the troubleshooting utilities with 90% accuracy

COURSE REQUIREMENTS

Students are responsible for attaining competencies through completion of the following course requirements:

Attendance

Students are responsible for attending all scheduled meetings in the courses in which they are enrolled **until they have completed all course requirements**. Students are responsible for all material covered and for all assignments made in all classes. Students who are absent from a class more than 20 percent of the hours assigned will be withdrawn. A grade of “W” is assigned if the student’s last date of attendance is on or before mid-term. If a student is withdrawn from a course and the last date of attendance is after mid-term, the grade assigned may be a “W” or a “WF.” The attendance policy also applies to students enrolled in telecourses or online courses. “Attendance” is established for telecourses through contacting the instructor, turning in assignments, and completing tests. “Attendance” is established for online courses by contacting the instructor, logging in to the course on a regular basis, and completing assignments and tests.

Hybrid Course

If this is a hybrid/online course, students are expected to check in daily for any communication via email, calendar, and/or the bulletin board. Students who do not check in for two weeks running will be dropped from the course. Students are expected to attend any labs or review sessions held by the instructor. If a student misses a test because of illness or urgent emergency, then he/she should do the following: Notify the instructor at the earliest possible date. At that time a new date for the make-up test will be scheduled. Students with unexcused absences when a test is given will be allowed to take a make-up test at the discretion of the instructor. The student has the responsibility to be sure that some arrangement is made with the instructor for taking a make-up test.

Missing Class

In case a student does miss a class, he/she is responsible for obtaining the material that was covered during the absence. If a student is aware that he/she will miss a class, then the student should notify the instructor at the earliest possible date.

Missing a Test

If a student misses a test because of illness or urgent emergency, then he/she should notify the instructor prior to the class period, or at the earliest possible date. At that time a new date for the make-up test will be scheduled. Students with unexcused absences during tests will be allowed to take a make-up test at the discretion of the instructor. The student has the burden to be sure that some arrangement is made with the instructor for taking a makeup test.

STUDENT CONDUCT:

York Technical College adheres to the South Carolina TECH Student Code and Grievance Procedure, approved by the State Board for Technical and Comprehensive Education on November 13, 2003. (Copies of this *Student Code and Grievance Procedure* are available in the College Library, the Industrial & Engineering Technologies Division Offices in Building C and D, the Business, Computer, Arts & Sciences Division Office in Building A, the Health & Human Services Division Office in Building A, the Student Government Association Office in the Student Center, in the Student Services Building., and on the College's website.) It is the policy of York Technical College that the *Student Code and Grievance Procedure* shall govern conduct and guarantee due process for students enrolled at the College. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship. The regulations which follow are significant and students are expected to become familiar with them:

1. The College reserves the right to decline admission, to suspend, or to require the withdrawal of anyone whose conduct is disruptive to the educational process.
2. The possession or consumption of alcoholic beverages or other drugs by a student while on College property is prohibited and is grounds for dismissal. York Technical College does not sanction the use of alcoholic beverages at any event involving students of the College.
3. Children are not permitted in classrooms, shops or labs. Children should not be left unattended at any time on campus.
4. Any student caught cheating or involved in any other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action.

5. All students should display a current parking decal on their vehicle and abide by the parking regulations provided.
6. Students are not permitted to eat or drink in the library or labs. Eating and/or drinking in classrooms are left to the discretion of the instructor. Smoking is not permitted in buildings.

PARTICIPATION IN CLASS

Students will be expected to participate in class discussions, to demonstrate problem-solving techniques, to complete tests, homework, lab experiments, lab reports and other assigned work.

EVALUATION STRATEGIES/GRADING

The grading scale will be as follows:

Grade Points

A	90-100
B	80-89
C	70-79
D	60-69
F	00-59

Evaluation Method

Tests may be written or oral and may contain questions that are true or false, short answers, multiple choices, fill in the blank and/or problems.

Each module will carry equal weight. Each test within each module will carry equal weight. Each lab and report within a module will carry equal weight.

Module grades will be determined as follows:

Major Tests (minimum of 1)	60 %
HW	20 %
Instructor options	10%
Work Ethics	10%

Distributed evenly among:

- Attendance
- Team Work
- Safety
- Participation
- Ethical behavior
- Respect for others
- Timeliness
- Quality
- Perseverance
- Cooperation

The instructor options will be discussed with the students during the first week of class. These options may include homework, spot quizzes, or written reports.

ENTRY-LEVEL SKILLS: Familiar with basic computer concepts

PREREQUISITES: RDG 101 or equivalent, MAT 101 or equivalent; CPE 107

CO-REQUISITES: NONE

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.

Effective: 2009FA