

COURSE SYLLABUS
Southeast Missouri State University

Department of Industrial & Engineering Technology Course No: ET- 464/564

Title of Course: Telecommunications and Networking II Revision: Spring 2000

- I. Catalog Description and Credit Hours of Course: A study of technical topics related to managing telecommunications and the internet. Projects and exercises will complement conceptual coverage to provide a real-world context. Implementation strategies will be analyzed using examples of successful implementations. (3 credit hours)

- II. Prerequisite (s): ET-462/ET-562

- III. Purpose or Objectives of the course: Upon completion of this course, the students should able to:
 - A. understand the internet and the web infrastructure.
 - B. run internet services.
 - C. managing internet clients.
 - D. create web pages.
 - E. maintain web content.
 - F. understand internet business issues.
 - G. understand legal and global issues.
 - H. manage internet security and troubleshooting.

- IV. Expectations of Students:
 - A. Students will be expected to attend class regularly and be responsible for all information presented in class.
 - B. Students will be expected to participate and contribute to the class as appropriate.
 - C. Students will be expected to perform satisfactorily on all assignments. (No credit for late work or handwritten assignments).
 - D. Students will be expected to take all examinations.
 - E. **Students taking this class for graduate credit will complete a design project, and present it to the rest of the class before finals week.**

V. Course Content or Outline (Indicate number of class hours per unit or section):

A. **On the Internet (Weeks):**

1. Local Area Network Design (1-4)
2. Interior Gateway Routing Protocol (5-8)
3. EXAM (Cisco Semester 3 Exam)
4. Wide area Networks, Wide Area Network Design (9-12)
5. Point-to-Point Protocol, Integrated Services
6. Digital Network and Frame Relay (13-16)
7. EXAM (Cisco Semester 4 Exam)

B. **In Class (Class Period):**

1. Internet Overview (1)
2. Internet Protocol Addressing, Domain Names, Protocols and Services (2-3)
3. Running IP Services (4)
4. Managing Internet Clients (5)
5. Creating Basic and Interactive Web Pages (6-7)
6. Data Driven Web Services (8-9)
7. Maintaining Web Content (10)
8. Internet Business Issues (11)
9. Internet Legal Concerns and Globalization (12-13)
10. Managing Internet Security (14)
11. Troubleshooting Internet Access (15-16)

VI. Textbook (s) and/or Other Required Materials or Equipment:

I-Net+ Guide to Internet Technologies, Course Technology (2000) ISBN: 0-619-01586-1

VII. Basis for Student Evaluation: Students will be evaluated based upon the following:

- A. Written Exams (60%)
- B. Lab Assignments (10%)
- C. Quizzes, papers and presentations (30%)
- D. Grading scale:
 1. 90 – 100 = A
 2. 80 – 89 = B
 3. 70 – 79 = C
 4. Below 70% = F

VIII. Disabilities Statement: If you have special needs addressed by the Americans With Disabilities Act and need course materials in alternative format, notify your

course instructor immediately. Reasonable efforts will be made to accommodate your special needs.