MISSION STATEMENT: The School of Business prepares a diverse student body for successful careers by offering high-quality professional business programs in a student-centered learning environment. As a teaching institution enriched by management practice-related and pedagogical scholarship and service, the School primarily serves undergraduate students while offering strategically-focused graduate programs.

COURSE NUMBER AND TITLE: IS 503 Telecommunications and Networking Applications

CLASS MEETING TIME: 8:00 – 9:20 TR CH 416

PREREQUISITES: IS 213

INSTRUCTOR: Dr. Peggy L. Lane

OFFICE: CH 102

OFFICE HOURS: Tuesday and Thursday 11:00 – 11:45
                Wednesday 9:30 – 11:30
                And by appointment.

TELEPHONE NUMBER: (620) 341-5371

E-Mail: plane@emporia.edu

REQUIRED TEXT:


COURSE DESCRIPTION:

This course presents an examination of the history of telecommunications as well as current telecommunications and networking technology.

COURSE OBJECTIVES:

Upon completion of this course, the students will be able to:

- Demonstrate a working knowledge of the layers in the Internet Model.
Describe the different network technologies
• Demonstrate a working knowledge of network security.
• Describe the steps in designing networks.
• Demonstrate an understanding of basic network management

SPECIAL FEATURES OF THE COURSE:

This course will have a number of assignments – some computer based and some written; some will be individual work and some will require work to be completed by groups. Each project should be prepared on a computer and printed or submitted electronically according to the directions on the assignment.

All assignments will be due on the due date. Late assignments will be penalized at 10% per day (including weekends for those assignments that are electronically submitted.)

When readings are assigned for class, students are expected to read the material and be prepared to participate in a class discussion. Quizzes (announced or unannounced) may be given to provide incentive to be prepared.

COURSE EVALUATION PROCESS:

Basis of Assignment of Grades: The evaluation will be based upon total points obtained from examinations and assigned projects and assignments.

The grading scale will consist of total points earned:

90% - 100% of total points = A
80% - 89% of total points = B
70% - 79% of total points = C
60% - 69% of total points = D
50% - 59% of total points = F

Your grade will be determined by the percent of points accumulated from the following (this is subject to change):

2 Exams 200
Final Exam 150
Projects/assignments/labs 150 - 200

Graduate students only:
Paper/Project 100

Makeup of regular scheduled exams will be allowed (time set by your instructor) only if the instructor is notified in advance of a student's absence and then only if the absence is considered excused.
ATTENDANCE POLICY:
Attendance Requirements: Regular class attendance is crucial to the development of a student's knowledge and skills. Student evaluation is based upon both active class participation and upon completed projects, thus student evaluation will be affected by class attendance.

Students are expected to conduct themselves in a manner that produces the best learning environment for all. Electronic devices must be turned off. If needed for “on call or emergency contact” situations, they should be set to vibrate so that they will not interrupt the class. During exams and quizzes, any electronic devices that need to remain on will be left with the instructor.

WITHDRAWAL POLICY:
The instructor may initiate a withdrawal for excessive student absences. Students who decide to withdraw and receive an automatic "W" must complete the formal withdrawal procedure by Wednesday March 28, 2012. After that date, a student may not withdraw from the class nor may the instructor assign a "W".

ACADEMIC DISHONESTY:
At Emporia State University, academic dishonesty is a basis for disciplinary action. Academic dishonesty includes but is not limited to activities such as cheating and plagiarism (presenting as one's own the intellectual or creative accomplishments of another without giving credit to the source or sources.) The faculty member in whose course or under whose tutelage an act of academic dishonesty occurs has the option of failing the student for the academic hours in question and may refer the case to other academic personnel for further action. Emporia State University may impose penalties for academic dishonesty up to and including expulsion from the university. Cheating and plagiarism will not be tolerated. You are encouraged to share your knowledge and experience with your fellow students; however, the final product of exams and assessments are meant to be individual efforts and those that are not may be punished by failure (score of zero) on that assignment and referral to the appropriate University offices.

DISABLED STUDENT POLICY:
Please contact the instructor immediately if (1) you have or think you have a disability or medical condition which may affect your performance, attendance, or grades in this class and for which you wish to discuss accommodations of class related activities or schedules, (2) you may require medical attention during class, or (3) you may need special emergency evacuation preparations of procedures. Emporia State University will make reasonable accommodations for persons with documented disabilities. Students need to contact the Director of Disability Services and the professor as early in the semester as possible to ensure that classroom and academic accommodations are implemented in a timely fashion. All communication between students, the Office of Disability Services, and the professor will be strictly confidential. Contact the Office of Disability Services and Non-Traditional Student Programs at Room 211 S. Morse Hall, 620/341-6637 Voice, 620/341-6646 TTY, or via e-mail disabser@emporia.edu. Accommodations are provided on an individualized, as-needed basis after needs and circumstances have been evaluated.
COURSE TOPICS:

NOTES:
- As a class we may decide to include alternate topics.
- Also instructor discretion may cause changes in the following sequence and content.

1. Introduction to Data Communications
2. Layers of the Internet Model
   a. Application Layer
   b. Physical Layer
   c. Data Link Layer
   d. Network Layer
   e. Transport Layer

Exam one will cover chapters 1-5.

3. Network Technologies
   a. LAN – Wired and Wireless
   b. Backbone
   c. WAN
   d. The Internet

Exam two will cover chapters 6-9.

4. Network Security
5. Network Design
6. Network Management
7. Other topics as time allows

Final Exam: Tuesday, May 8, 2012 8:00a.m. – 9:50a.m.