EST 404 Syllabus, Spring 2015
Communication Systems Management

Instructor: Martin A. Hebel, Associate Professor

Office/Hours: ASA 211A • 10:00 – 12:00 Mon.
9:30 – 11:20, Tue., Thur.

Telephone: (618) 453-8806

Email: mhebel@siu.edu

Classroom/Time: ASA 204A • 8:00 – 9:15, Tue., Thur.


Supplies: Scientific Calculator. It needs to have Trig. Functions: Sin, Cos, Tan, etc.

Course Description:
This course covers a broad range of material that will introduce the student to maintenance, evaluation, installation, troubleshooting, and management of communication equipment, with an emphasis on computer networks. This course will also provide advanced knowledge about the theory of operation, terminology, and underlying principles associated with the transmission of voice, data, and video information through telephone, satellite, and cellular radio equipment.

Objectives:
Upon successful completion of this course, the student should be able to:

• Identify and describe the major networking systems in the communications industry.

• Describe the advantages and disadvantages, costs, placement requirements, and application of each cable medium.

• Describe the process and identify telephone equipment required in transmitting voice and data in intra-office, local exchange, and long distance services.

• Identify cellular network equipment required to transmit voice and data and describe how calls are processed.

• Identify local area network hardware and software required to transmit data.

• Describe the process of installing and troubleshooting a local area network.

• Identify the major functions of managing a local area network.

• Describe the various protocols used to transmit data through the Internet.
• Identify the major functions of managing a telecommunications department.

• Discuss and compare future trends and emerging technologies in the communications field.

Grading: Approximate Point Distribution:
Homework/Quizzes: 300 points
Exams: 400 points
Technical Paper/Presentation: 100 points
Total Points = 800 points

Grades are based on the percentage of total points earned versus total points available from homework, quizzes, exams, and technical paper/presentation.

    A = 90 to 100%
    B = 80 to 89%
    C = 70 to 79%
    D = 60 to 69%
    F = Below 60%

Late work: Late work will not be accepted. Missed exams can only be made up if arrangements are made prior to exam dates. Exceptions may be made under certain situations, such as family emergencies and documented illness.

Attendance: Attendance for this course is mandatory. Missed class time may result in loss of points due to missed quizzes or other work that may not be made up.

Final Exam: Tuesday, May 12th, 8:00 – 10:00

Class Preparation:
It is expected students will read or review assigned text materials prior to class, have reviewed prior lecture material and are mentally engaged during class time.

Mobile Technology:
Cell phones and other devices will be silenced during class time. Use should be very limited and not distract you or others. Other learning technologies, such as tablets for notes, are welcome.

Incomplete Grade:
An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within a time period designated by the instructor but not to exceed one year from the close of the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, not to exceed one year, or graduation, whichever comes first, the incomplete will be converted to a grade of F and the grade will be computed in the student's grade point average. Students should not reregister for courses in which an
INC has been assigned with the intent of changing the INC grade. Re-registration will not prevent the INC from being changed to an F.

**Technical Paper/Presentation:**
The objective of the technical paper is for the student to research and prepare a short paper and PowerPoint presentation on a topic of special interest to them in the field of telecommunications and/or networking. The paper should highlight new developments in the field. The paper should be organized with an introduction that identifies the problem and introduces the solution, technical information relevant to the topic, and a final conclusion paragraph. Your writing should be clear, logical, and concise. The mechanics of your writing (spelling, punctuation, etc.) will be graded. The bibliography and citations should be in the APA style. The paper should be a minimum of three and a maximum of four double-spaced pages. Title page and bibliography are additional. More information and sample topics will be discussed and made available on the Blackboard site for the course. The paper and presentation is due during the final lecture week of the course.

**Email Policy**
Please check your SIU email regularly as I regularly send announcement to that address. When Emailing me, please include the course number in the subject along with other pertinent information.

**Academic Dishonesty:**
Students may be subject to disciplinary proceedings resulting in an academic penalty or disciplinary penalty for academic dishonesty. Academic dishonesty includes, but is not limited to, cheating on a test, plagiarism, or collusion.

**ADA Statement for Students Requiring Special Accommodations:**
As per 504 of the Vocational Rehabilitation Act of 1973 and the American Disabilities Act (ADA) of 1990, if accommodations are needed, inform the instructor or program advisor as soon as possible.

**BERT Statement**
Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on the BERT website at www.bert.siu.edu, Department of Public Safety’s website at www.dps.siu.edu (disaster drop down) and in Emergency Response Guidelines pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your
instructor in evacuating the building or sheltering within the facility.

Saluki Cares

Are you under distress due to physical, emotional, financial or personal issues? Request assistance or see faculty to make a referral:
http://salukicares.siu.edu/index.html
(618) 453-5714
siucares@siu.edu.