Course ID: CS 340  Title: Computer Networks I  Prerequisite(s): CS 220 or CS 101 and CS 145

Catalog Description:
This course explores the role of communications as an enabling technology for both information systems and the organizations, which they support. The course explores issues in the areas of interconnectivity requirements and computer network design in the support of business practices. (Covers communications terminology, principles and standards, and surveys the state of the art data communications technology and architecture.)

Course Objective:
1. To develop awareness and associated terminology of the different network devices and underlying technology, media and devices necessary for data communications.
2. To develop an awareness of how data communication systems are used to support organizational communication infrastructure including information systems.
3. To familiarize the student with the data communication standards, with regulatory organizations and their standards.
4. To discuss and explain underlying principles and issues of distributed versus centralized computer systems.
5. To present architectures, topologies, and protocols of data communications
6. To present the hardware and software components of data communications systems and how they are organized to provide required services.
7. To provide awareness of the responsibilities inherent in providing data communications services, including security, privacy, reliability and performance.

Pedagogical Approach:  Classroom lectures, outside assignments, and research

Evaluation Estimate:
In-Class Exams  90%  Please, No make-up exams
Other Assignments including attendance and class participation  10%  Please, No late assignments accepted; Please do not be late for class or leave class early. 100% attendance is expected.
