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Course Description: This course provides an overview of the broad field of data and computer communications, which includes techniques and protocols covering application, transport, network, and data link layers.

Course Outline:

1. Computer Networks and the Internet – Internet, network structure, protocol stack
2. Application Layer – HTTP, FTP, SMTP, DNS, content distribution
3. Transport Layer – UDP, TCP, sliding window, congestion control
4. Network Layer and Routing – Routing principles, IP, IPv6, software defined networking
5. Link Layer and Local Area Networks – Multiple access control, LAN, Ethernet, wireless links

Prerequisite: CMPEN270 or CMPEN271, Concurrent (STAT 301 or STAT 318 or STAT 401 or STAT 414 or STAT 418)


Class Web page: http://www.cse.psu.edu/~gxc27/teach/362

Course Grading:

- Homework/lab: 15%
- Midterm 1 (Oct. 6): 23%
- Midterm 2 (Nov. 10): 24%
- Final: 34%
- Class Participation: 4%

Policies: Assignments are due at the start of class on the date specified. They will be accepted after the due date until the start of the next class period with a 20% penalty. No submission will be accepted after this time (i.e., one class after the due date).

Academic Integrity Statement: Dishonesty of any kind will not be tolerated in this course. Dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Students who are found to be dishonest will receive academic sanctions and will be reported to the University (see Senate Policy G-9). The CSE Department has its statement on Academic Integrity (http://www.eecs.psu.edu/students/resources/EECS-CSE-Academic-Integrity.aspx)

Accessibility: Penn State welcomes students with disabilities into the University’s educational programs (see http://equity.psu.edu/student-disability-resources)

Counseling & Psychological Services (CAPS): Students who experience personal issues that interfere with their academic performance can seek assistance from CAPS center (http://studentaffairs.psu.edu/counseling).