CSE 514: Computer Networks

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Office Hours: TR 3:15 - 4:15 PM

TA:
Office, Phone, Email:
Office Hours:

We also read papers that will be posted on the class web page.


Class Web page: http://www.cse.psu.edu/~gcao/teach/514

Course Outline:

1. Computer Networks and the Internet – Internet, network structure, protocol stack
2. Application Layer – HTTP, DNS, socket programming, P2P
3. Transport Layer – UDP, TCP, sliding window, congestion control
4. Network Layer – Router, forwarding, IP, SDN
5. Network layer control plane – Routing algorithms, OSPF, BGP, Openflow
7. Multimedia Networking – Scheduling, RSVP, differentiated service

Course Grading:

- Homework: 10%
- Midterm: 30%
- Projects: 20%
- Final: 37%
- Class Participation: 3%

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).