CS:3640 Intro to Networks and Their Applications

Semester: Fall 2017  
Classroom: 105 EPB  
Meeting Time: MWF 12:30P to 1:20P

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Department Executive Officer (DEO): Prof. Alberto Segre  
DEO Office: 14 MLH  
DEO Office Phone Number: 319-335-1713  
DEO email: alberto-segre@uiowa.edu

Course webpage: https://sites.google.com/site/saikatcit05/teaching/fall17cs3640  
Lecture summaries and announcements will be posted in the course webpage.

ICON: https://icon.uiowa.edu/  
Slides and assignments will be posted in ICON. Students are encouraged to ask their questions through ICON discussions.

Textbook:  
Kurose and Ross

Course Objectives:  
Upon successful completion of this course, students are expected to:  
- Become familiar with the organization of networking protocols within the layer architecture (OSI, TCP/IP)  
- Understand the client/server model and key application layer protocols such as HTTP.  
- Learn sockets programming.  
- Understand the concepts of reliable data transfer and how TCP implements these concepts.  
- Know the principles of congestion control and trade-offs in fairness and efficiency.  
- Learn the principles of routing and Internet’s IP protocol.
- Understand the basics of error detection including parity, checksums, and CRC.
- Understand the key concepts of wireless networks, and especially mobility support.
- Learn the importance and mechanisms of network management.

**Grading:**
Final grade will be determined by the following components:

- *Homework assignments (50%):* There will be five/six homework assignments during the semester. The assignments will include both theoretical and programming problems.
- *Exams (45%):* There will be one mid-term and one final exam. The mid-term exam will cover 20% and final exam will cover 25% of total grade. Dates and times of the exams will be announced later.
- *Participation (5%):* You are expected to actively participate in the class discussions. You are also encouraged to answer your peers’ questions on the ICON discussion forum. There might be in-class short quizzes. Attendance at lectures will not be recorded or tracked, however there might be pop quizzes if the overall attendance rate drops below an acceptable threshold.

Grades will be curved. CLAS expects that senior level undergraduate classes to have the following approximate grade distribution:

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<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
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<tr>
<td>A</td>
<td>22%</td>
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<tr>
<td>B</td>
<td>38%</td>
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<tr>
<td>C</td>
<td>36%</td>
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<td>D</td>
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<td>F</td>
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**Late policy:**
You may use a quota of three days for the entire semester for late submissions. When you submit an assignment X days late, your quota gets decreased by X irrevocably. You can only be late by an integer number of days. For example, if you submit 5 hours after the deadline, your quota is depleted by one day. Once you use up your quota of three days, any assignment submitted late will not be accepted and you will get 0 points for that assignment.

**Cheating:**
Unless otherwise indicated, it is generally acceptable to discuss high level ideas about assignments. However, it is not acceptable to share code. If you use anyone’s code from internet, please mention the source and write sufficient comments to show your understanding. Software will be used to detect plagiarism. Penalties for plagiarism may be severe.

**The College of Liberal Arts and Sciences Policies**

**Administrative Home**
The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different
colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall, or see the CLAS Academic Policies Handbook at https://clas.uiowa.edu/students/handbook.

Electronic Communication
University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences (Operations Manual, III.15.2, k.11).

Accommodations for Disabilities
The University of Iowa is committed to providing an educational experience that is accessible to all students. A student may request academic accommodations for a disability (which includes but is not limited to mental health, attention, learning, vision, and physical or health-related conditions). A student seeking academic accommodations should first register with Student Disability Services and then meet with the course instructor privately in the instructor's office to make particular arrangements. Reasonable accommodations are established through an interactive process between the student, instructor, and SDS. See https://sds.studentlife.uiowa.edu/ for information.

Academic Honesty
All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College's Code of Academic Honesty: "I pledge to do my own academic work and to excel to the best of my abilities, upholding the IOWA Challenge. I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty." Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled (CLAS Academic Policies Handbook).

CLAS Final Examination Policies
The final examination schedule for each class is announced by the Registrar generally by the fifth week of classes. Final exams are offered only during the official final examination period. No exams of any kind are allowed during the last week of classes. All students should plan on being at the UI through the final examination period. Once the Registrar has announced the date, time, and location of each final exam, the complete schedule will be published on the Registrar's web site and will be shared with instructors and students. It is the student's responsibility to know the date, time, and place of a final exam.

Making a Suggestion or a Complaint
Students with a suggestion or complaint should first visit with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident (Academic Policies Handbook).

Understanding Sexual Harassment
Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be
reported immediately. See the UI Office of the Sexual Misconduct Response Coordinator for assistance, definitions, and the full University policy.

*Reacting Safely to Severe Weather*

In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Department of Public Safety website.