

Communication Protocols and Internet Architectures
Harvard University
CSCI S-40, Week 5, July 23, 2018
Weekly Course Logistics and Information

Course Information and Logistics

- **Midterm Exam:** The exam is being graded and the grades will be posted by the end of the week.
- **Final Exam:** The Final Exam is on Tuesday August 7th starting at 630pm in Harvard Hall room 102. The exam proctor forms for students who live outside of New England are due by Monday July 30th. Please review the details below.
- **Homework:** Homework #4 is due this Friday July 27th. Homework #5 will be posted this week and it is due at 1PM (Boston time) next Thursday August 2nd.
- **Weekly Section Meetings:** The on-campus section meeting is on Tuesday evening in room L01 at 53 Church Street starting at 7:30PM. The online section meetings are on Thursday evening at 9PM EST, and Saturday morning at 10AM EST. The details about these section meetings are below.
- **Weekly Online Office hours:** We hold online office hours on Wednesdays between 11AM and noon, or, please contact the instructor if you wish to schedule office hours for another time. We use the same Zoom webconference tool we use for the online sections for online office hours.
- **Three lectures are being posted this week, the 5th week of the term.** The lecture on email and Spam given by Joe Pranevich is a required part of the course.
- **Please submit a One-Minute Wrap-Up at the end of each lecture using the online form posted in the weekly module.** This form is anonymous.

Weekly Reading Assignments

- The reading assignments for the next set of lectures have been posted.

Final Exam Information (Tuesday, August 7, 2018)

- The Final Exam is a closed book three-hour long exam. The exam will cover all of the material from the term, including the material from before the midterm exam.
- **The Final Exam will be held on campus on Tuesday evening August 7th starting at 6:30PM in Harvard Hall room 102.** If you live in the New England area you must take the exam on campus at this time. If you live outside New England you must arrange for a proctor to give you the exam in your area.
- **If you live outside New England you must arrange for a proctor to give you the Final Exam on August 7th.** You can find information on arranging a proctored exam in the Academic Policy and Exam section of the School website at the following link:
<https://www.summer.harvard.edu/resources-policies/exams>
You are responsible for finding a proctor in your area and you **need to submit the proctored exam request form by Monday July 30th**. The proctored exam form is

available via DCE Online Services at:

<http://www.summer.harvard.edu/login>

- **The exam will be available for your proctor to download from the Online Services website between 12:01AM and 11:59PM EST on Tuesday the 7th and you must take the exam with your proctor during this same time period.** (Note that the exam will not be available via the course website.) All of these times are EST in Boston and you therefore need to correlate this timeframe to the location where you live. This is especially true if you live in Europe, Africa or Asia. Please note that the proctor system is offline between 1AM and 2:30AM EST for system maintenance and your proctor will not be able to download the exam during this 90 minute period.
- Contact the Academic Services Office (part of the Registrar's Office) if you have any questions about finding a proctor. They can be reached at distance_exams@hudce.harvard.edu or call (617) 495-0977. They have a lot of experience with distance exams. Please remember that you are responsible for finding a proctor in your area and that the Summer School must have all of your proctor information (via the online form) **no later than July 30th.**
- **Exam Format:** The final exam will have the same format as the midterm exam. The exam will include a number of True/False, multiple choice and matching questions. In addition to these types of questions, the exam will include a number of essay questions. The practice exam questions that are posted for the midterm are also applicable to the Final Exam.

Weekly Section Meetings

- The **on-campus section meetings** are held on Tuesday evenings in room L01 at 53 Church Street starting at 7:30pm. The live video of the section will be available via the Lecture Video link on the navigation bar of the website and we will be using a chat room called Backchannel Chat so that online students can ask questions. The link for our chat room is:

<http://backchannelchat.com/chat/vla21>

Please note that this chat room is not managed by Harvard, does not require a login and is not private. Therefore, do not include any personal or private information in your conversations. Also note that you must login to the course website in order to see the links for the video and chat room. The recorded video from this on-campus section will be posted on Wednesday

- The **online section meetings** are held on Thursday evenings at 9PM EST and on Saturday mornings at 10AM EST. We are using an online collaboration tool called Zoom for these online meetings. Zoom is a web conferencing tool used for many different courses here at Harvard, and it is comparable to WebEx or Google Hangouts. The online section meetings will not be recorded.

You can join your online section meeting in a number of different ways. If you are using a laptop or desktop computer then you should use the link below to join the meeting.

<https://harvard-dce.zoom.us/j/5092853098>

If you're using Zoom on a mobile device then you will need to install the Zoom app. Once you have done that you join your meeting by entering ID # 5092853098. Please note that you do not need to sign up for a separate Zoom account to join the online meeting.

Zoom supports Windows and Mac OSX using common browsers, such as Firefox, Chrome and Safari, plus many different tablets and mobile devices. You will need to install and run a Zoom browser plug-in if you are using your computer, or you will need to install

the Zoom app if you are using a mobile device. Please make sure to test your audio and video configuration before you use the system for the first time. You can find more specific technical information on system requirement here:

<https://support.zoom.us/hc/en-us/articles/201362023-System-Requirements-for-PC-and-Mac>

You should use a headset with a microphone in order to improve the quality of your audio, and you should always mute your audio if you are not speaking. As you will learn in this class, the network performance of wireless Ethernet (IEEE 802.11 or Wi-Fi) and cellular service is much worse than wired Ethernet and this means that the quality of your video and audio might not be very good if you use a wireless connection. This is especially true if you are using a Wi-Fi connection at a coffee shop. As we will discuss later this term, the most important parameters that are used to measure network performance are packet error rate, network delay, and network jitter.