

Date: Wednesday, Apr 1
2:30pm to 3:45pm
Location: MCB 307 (usual classroom)

Format:

The midterm exam will consist of 3-5 questions.

It will be **closed book, closed notes, closed computer/without wireless access**. However, you are **allowed to bring one letter-sized sheet of paper with prepared notes** (you may use front and back of that sheet.) You may also bring a copy of the two assigned research papers, as discussed below.

You are responsible for the content of lectures 1 through 15 (up to including the Mar 25 lecture.) This includes, among others:

- General introduction to computer networks: service descriptions, protocols, reference models, circuit vs. packet switching, delay and loss in packet-switched networks, types of delay, models of layering, implementation techniques for layering, operating system issues.
- Application layer protocols: general principles and requirements, HTTP and DNS, XMPP, socket programming using UDP and TCP, server models.
- Transport layer protocols: multiplexing and demultiplexing, UDP, NAT, principles of reliable data transfer, stop-and-wait protocols, pipelined protocols (go-back-N and selective repeat), TCP and the principles employed in it, congestion control.

The Kurose/Ross textbook covers this material in chapters 1 through 3, you may also want to read the Subsection on NAT in Section 4.4.2 starting on pg 339.

Other resources to study for the exam include the Wireshark labs on the book's website as well as the self-assessment quizzes on the same site.

The midterm will also contain questions related to the additional required reading on SDP and DCCP. You may bring your copy of each paper for your reference.