

**CISC450/CPEG419**

# **Computer Networks I**

**Dr. Rui Zhang**

# Course Information

- Instructor: Rui (Ray) Zhang
- Office: Smith Hall 448
- Email: [ruizhang@udel.edu](mailto:ruizhang@udel.edu)
- Meeting time: 11:00--12:15PM T/Th
- Meeting location: Gore Hall Room 318

# Course Information

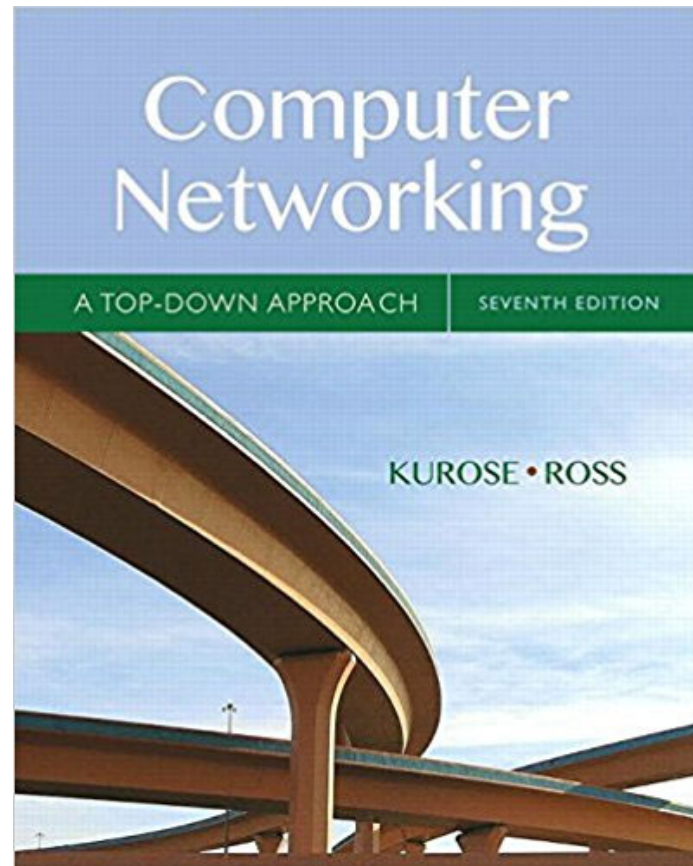
- Office hour
  - 10:00--12:00PM Wed
  - Appointment via email (preferred)
- TA
  - Mr. Zheyuan Liu
  - Office hour:TBD
  - Email: [zyliu@udel.edu](mailto:zyliu@udel.edu)

# Prerequisite

- CISC260 or CPEG222, or course covering assembly language
- Programming skills (C, C++) with a clear appreciation and understanding for modular, well-documented code
- Knowledge of probability and statistics
- (recommended) Working familiarity with Unix
- (recommended) Understanding of finite state machines

# Required Textbook

- James Kurose and Keith Ross, **Computer Networking: A Top-Down Approach**, Pearson; 7th edition, 2016, ISBN-13: 978-0133594140 or ISBN-10: 0133594149.



# Course Outline

- Overview of Internet and networking concepts
- Selected application layer protocols (HTTP/DNS) , network programming
- Transport layer (TCP/UDP)
- Networking layers (IP)
- Link layer in both wired and wireless networks

# Expectations

- Attend each class
- Participate in discussion
- Read all reading assignments
- Work all the homework, Wireshark lab, and programming assignments

# Homework

- There will be 7 homework assignments
- You can discuss homework assignments with others but are required to write up each problem solution yourself and identify your collaborator, if any.
- You are required to type homework assignments using a word processor (e.g., MS Word or Latex). Handwriting will not be accepted
- You should be as clear and precise as possible in your write-up of solutions.
- You are required to turn in via Canvas by 11:59PM on the specified due date.
- Late submission will not be graded



# WireShark Lab

- There will be approximately 8 take-home Wireshark lab assignments
- You can discuss lab assignments with others but are required to write up each lab report yourself
- You are required to type lab reports using a word processor (e.g., MS Word or Latex). Handwriting will not be accepted
- You are required to turn in via Canvas by 11:59PM on the specified due date
- Late submission will not be graded

# Programming Assignment

- There will be two programming assignments
- Details will be discussed at a later time

# Exam

- There will be ONE midterm exams and ONE final exam
  - Midterm is tentatively scheduled for 3/26/2020
  - Final exam is scheduled for 5/20/2020 1:00PM - 3:00PM
- All exams are closed-books/notes
- Make-up exam due to an absence will be given only under the following conditions
  - You have informed me of the absence at least 24 hours in advance of missing the midterm and final exams
  - You miss the midterm and final exams due to some situation beyond your control (such as a serious illness, a death in the family, etc.) which is unexpected, unavoidable, and documented (i.e., verifiable)
  - Will be judged case by case

# Grading

- Final course grade will be based on homework assignments, lab assignment, programming assignment, midterm exam, and the final exam
  - Homework Assignment.....21%
  - Lab assignment .....16%
  - Programming Assignment .....16%
  - Midterm .....20%
  - Final Exam .....25%
  - Course Evaluation.....2%

# Grading

- A:  $\geq 91$
- A-:  $\geq 88$
- B+:  $\geq 84$
- B:  $\geq 81$
- B-:  $\geq 78$
- C+:  $\geq 75$
- C:  $\geq 72$
- C-:  $\geq 69$
- D+:  $\geq 66$
- D:  $\geq 63$
- D-:  $\geq 60$
- F:  $< 60$

Q&A