

# Admin Information Instructor: Reza Rejaie - Email: reza@cs.uoregon.edu - Office: Deschutes 328 - Office Hour: Wed 2-3:30p (and anytime I am in my office and not having a meeting) GTF: Soheil Jamshidi - Email: jamshidi@cs.uoregon.edu - Office: Deschutes 331 - Office hours: Tue noon-2p, Wed 2-3p • email lists: 432list, 532list@cs.uoreogn.edu All announcements are sent to these email lists and then posted in class web page. • Using your email address on duckweb

# Why you should take this course?



- This introductory course covers:
  - Principles of computer networks
  - Network protocol stack
  - How to design & evaluate network protocol
- This course teaches you a valuable set of skills/concepts that helps you
  - perform network programming or design network protocols (find a good job!)
  - participate in networking research (go to a good graduate program!)

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3

### Pre-reg & textbook



- Prerequisites:
  - · CIS313 (intro to data structure),
  - CIS315 (intro to algorithm),
  - · CIS415 (OS),
  - · Basic probability concepts
  - Textbook: Computer Networking: A Top-Down Approach Featuring the Internet, by <u>James F.</u> <u>Kurose</u> and <u>Keith W. Ross</u>, Addison Wesley, 7th Ed.
    - Is it useful to put a copy of the book on reserve at the library?
    - Some copies of the earlier editions to borrow from me!
    - You should deal with minor differences between different editions.

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### Grading Undergraduate · Midterm 25% 2 Programs 50%

Final



· Midterm 20%

50% 2 Programs

 Final 20%

· Paper Revs 10%

- Increased the points for programming projects
- We might have a couple of in-class guizzes.
- There might be *minor* extra credits in hw and progs.

25%

- Grades in each components are posted on Canvas.
- 4 homeworks are assigned and the solutions are given on due date. There is no need to turn them in.

5

### Lectures & Exams



- Class schedule on the web site shows the covered topics in each class
  - Examine the workload!
  - If you have any problem with the exam times, let me know ASAP.
- Lecture notes are posted online after each chapter
- Class participation is required!!
- Lectures are interactive, Please ask questions!
- Exams are closed-book but you can bring a sheet of notes
  - You don't need to memorize anything
  - You need to learn the main concepts & how to apply them
- Exams test your ability to apply learned concepts in the context of a particular problem.
  - HWs provide exam-level questions to help you prepare (make sure to spend time on your HWs)

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### Programming Assignments



- Substantial part of the course
  - Requires a significant fraction of your time
- Focus on socket programming & protocol design
- Undergrads can work on program assignments in group of 2, grads should work individually
- Programs must be written in C/C++ or Java,
  - Your program should compile and run on department's server (ix-dev).
- Instructor or GTF can not spend time on material that is not related in computer networks (i.e. debugging your code, basic programming questions, makefile, etc).

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7

## Extra components for grad students



- Six classic papers to read and submit technical reviews
  - Trains you in reading/reviewing research papers
  - Covers basic topics & serves as an intro to cis632
  - Reviews should be submitted online before the specified deadline

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4

### Issues to Consider



- This course has a heavy load. Please adjust your overall workload accordingly
  - See the posted class schedule for more details and timing conflicts
- Lots of material to cover => class has a fast pace
  - If you fall behind, it might be hard to catch up
  - > Extending submission deadlines is not really helpful
- Helpful suggestions:
  - Read the relevant chapters of the text book as we cover them
  - Start early and allocate plenty of time to hw & especially programming assignments.
  - · Actively follow and participate in class discussion.
  - Ask questions as often as you need in class & during office hours. I may defer some questions to after class.

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9

### Final Remarks



- This class requires lots of work, but it could/should be lots of fun as well because
  - It has informal class discussions
  - You learn lots of exciting skills/concepts that can apply them in practice, e.g. implement a web server
  - What you learn, would help you in your upcoming job interview, or research project
- The time you invest in reading and coding in this class is a valuable, long-term investment!!
- We invite the best u/grad students in class to join our research group in Winter term.
- If you have any suggestion that helps you better learn the material (perform better in this class), let me know any time throughout the term!

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-10

