Networked Systems
Revision Lecture

Kyle Jamieson and Brad Karp
UCL Computer Science

CS 3035 / GZ01
29th April, 2014

Module Marking Scheme

- Coursework 1: 8%
- Coursework 2: 8%
- Coursework 3: 8%
- Coursework 4: 8%
- Mid-term exam: 8%
- Final exam: 60%

- 3035: must average >=40% overall to pass
- GZ01: must average >=50% overall to pass

Exam Rubric

- Three multi-part short-answer questions
  - you must answer two of your choice
  - questions on past papers for 3035/GZ01 are representative
- One set of "true/false/don't know" questions, all of which you must answer
- Each question worth 33 marks

True/False/Don't Know Questions

- A scenario followed by up to five lettered statements
- For each, you must fill in your choice of whether the statement is true, false, or if you don't know
- Answers go on multiple-choice answer sheet, must be written in HB pencil
- Anywhere between zero and all five lettered statements may be true
- Marking scheme:
  - Gain a mark for each correct answer filled in
  - Lose a mark for each incorrect answer filled in
  - No change for marking "don't know" or not answering
  - Total marks on T/F/D normalized into [0, 33]

What We Won't Ask You

- "Explain how System X will behave in this utterly bizarre corner case that is insignificant in reality, and was never mentioned in lecture."
  - We're trying to determine whether you understand central themes in the material, and how to apply ideas to practical networking problems.

What We Might Ask You

- "How does this protocol behave in this common situation?"
- "When would you want to use this system vs. this one? And why?"
- "How would this protocol behave better or worse if we made this change to it?"
- "Why does this protocol do this task in this way?"
- "Quantitatively predict performance."
  - If formula simple, and derived in lecture, we won't give formula to you.
- We will do our best to make questions span multiple concepts!

What We Might Ask You

- "How does this protocol behave in this common situation?"
- "When would you want to use this system vs. this one? And why?"
- "How would this protocol behave better or worse if we made this change to it?"

Substantiate your answers! The right conclusion must be supported by relevant details.

  - If formula simple, and derived in lecture, we won't give formula to you.
- We will do our best to make questions span multiple concepts!

How Should You Study?

- Read lecture slides (should already have read and re-read them!)
- Re-read your notes from lectures; refer to slides and readings to understand troublesome bits better
- Discuss material in a group
  - Surprisingly time-efficient
  - Pool your understanding; likely >= one of you understands each aspect of material
  - Only works if you prepare by reading all readings and re-reading slides and your notes from lecture

Master List of Examinable Readings

- Exact readings listed on calendar on class web page
- Non-textbook readings assigned:
  - Ethernet
  - End-to-End Arguments
  - Congestion Avoidance and Control
  - Interconnections (excerpt on calendar page)
  - Lulea forwarding algorithm
  - Balakrishnan BGP lecture notes
- Assigned sections of Peterson & Davie (P & D) textbook
- Assigned sections of Saltzer & Kaashoek (S & K) Chapters 1, 7, and 8