CPS 514: Day 0
Agenda Today

• Survey Quiz
• Introductions
• Course Syllabus
• Typical Class Format
• Format of Paper Reviews
• Networking
Survey Quiz
Introductions!
Course Syllabus

- Exam: 40%
- Project: 30%
  - Presentations at the end of the class.
- HWs: 20% (3 HWs)
- Reviews: 10%
- ExtraCredit: Class Participation: 10%
- No Curves
Typical Class Format

• Prep: Read the assigned reading
  • Write a review

• In class slides and discussion
  • Must be prepared to participate
Paper Reviews

• 5-6 paragraphs
• Paragraph 1: Summary
• Paragraph 2: strengths
• Paragraph 3: weakness
• Paragraph 4: Thoughts about the paper relative to other papers
• Paragraph 5: Thoughts about the paper relative to items you deal with
• Paragraph 6: Answers to my questions
Paper Review Scores

- Check-Minus:
  - Think of this as a B

- Check:
  - Think of this as a B+

- Check-plus: review surprises me.
  - Think of this as an A
What is Networking?
What is the Goal of this Class?

• This is **NOT** undergraduate networking

• Delve deeper in several aspects of networking
  • Develop an understanding of different protocols and problem spaces
  • Become better equipped researchers
  • Become better equipped network S/W
Topics!

• Routing: BGP issues, WAN Traffic Engineering

• Data Center Networks: architecture, congestion control challenges.

• Congestion Control: Multipath TCP

• Web layer: SPDY, QUIC

• Application layer: DHT, Video On Demand

• SDN: Network virtualization

• Middleboxes network functions