

Course info

Course basics	
Lectures	Monday, Wednesday, Friday, 2:30 p.m.–3:20 p.m. in room 320-105
Lab sessions	Tuesday, 7:30 p.m.–10 p.m. in STLC 114
Exams	<b>Midterm:</b> Wednesday, October 30. <b>Final:</b> Tuesday, December 10, 2019, 9–11 a.m. (Building 420, room 41)
	Practice midterm  Answer key
	Practice final  Answer key
Contact	To contact the course staff, please feel free to use Piazza, the lab sessions, or office hours. For private matters or accommodation letters, please email the instructors (cs144-aut1920-staff@lists.stanford.edu).
Syllabus/logistics	Syllabus/logistics handout
Piazza	CS144 on Piazza
QueueStatus	QueueStatus (for office hours)
Attendance	Attendance Form

Lecturers	
Keith Winstein	Nick McKeown
Email: <a href="mailto:keithw@cs.stanford.edu">keithw@cs.stanford.edu</a>	Email: <a href="mailto:nickm@stanford.edu">nickm@stanford.edu</a>
Office hours: <i>in lab session</i>	Office hours: <i>Monday 4:30-5:30pm in Gates 344</i>

Course Assistants		
Sarah Tollman <span>head CA</span>	Nicholas Hirning	Alex Ozdemir
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Video Weeks and Online Quizzes

- **Week 1, due Sept. 30 before class**
  - Honor Code video & quiz
  - The Internet and IP
- **Week 3, due Oct. 11 before class**
  - Simple Deterministic Queue Model
  - Queuing Model Properties
  - Rate Guarantees
- **Week 5, due Oct. 29 before class**
  - Routing

Please note: videos have moved to SUclass, which also hosts the completion quizzes, but are the same videos posted here originally.

Lab Assignments		
FAQ	Answers to common questions about lab assignments.	
Lab 0: networking warmup	Out: Sept. 23, due <b>Sept. 30, 5 p.m.</b>	<a href="#">Code</a>   <a href="#">Documentation</a>
Lab 1: stitching substrings into a byte stream	Out: Sept. 24, due <b>Oct. 4, 5 p.m.</b>	<a href="#">Code</a>   <a href="#">Documentation</a>
Lab 2: the TCP receiver	Out: Oct. 4, due <b>Oct. 11, 5 p.m.</b>	<a href="#">Code</a>   <a href="#">Documentation</a>
Lab 3: the TCP sender	Out: Oct. 11, due <del>Oct. 18</del> <b>Oct. 23, 5 p.m.</b>	<a href="#">Code</a>   <a href="#">Documentation</a>
Lab 4: the TCP connection	Out: Oct. 23, due <b>Nov. 6, 5 p.m.</b>	<a href="#">Code</a>   <a href="#">Documentation</a>
Lab 5: the network interface	Out: Nov. 16, due <b>Dec. 4, 5 p.m.</b> (extra credit if handed in before <b>Nov. 22, 5 p.m.</b> )	<a href="#">Code</a>   <a href="#">Documentation</a>
Lab 6: the IP router	Out: Dec. 3, due <b>Dec. 6, 11 p.m.</b>	<a href="#">Code</a>   <a href="#">Documentation</a>

Lecture Notes	
Week 1	Monday, Sept. 23 Wednesday, Sept. 25 Friday, Sept. 27
Week 2	Wednesday, Oct. 2 Friday, Oct. 4
Week 3	Monday, Oct. 7 Wednesday, October 9
Week 5	Monday, Oct. 21 Wednesday, October 23 Friday, October 25
Week 6	Monday, October 28
Week 7	Monday, November 4 Friday, November 8
Week 8	Friday, November 15
Week 9	Monday, November 18 Wednesday, November 20 Friday, November 22
Week 10	Wednesday, December 4
	Stuff you should know about CS144
	How the Internet works
	Reliability
	TCP
	Wireshark Exercise  pcap files  Answers
	Packet Switching Part 1
	Packet Switching Part 2
	Routing Game
	Routing in the Internet
	Nandita Dukkupati Guest Lecture
	Applications I (DHCP, DNS, TLS)
	<u>Physical Layer</u> (same slides for Wednesday Nov. 6)
	Ethernet
	Ken Florance (Netflix) Guest Lecture
	Disaggregation
	Jeff Mogul (Google) Guest Lecture
	Omar Baldonado (Facebook) Guest Lecture
	Nick M. Review

Schedule

