

December 3, 2013
Final Exam Study Guide

Date	Speaker	Topic / Paper
September 3	rek	Introduction, Course Requirements TCP Sliding Windows
September 10	rek rek rek	Review Performance Metrics Congestion Control and Queuing TCP Congestion Control
September 17	rek rek	*#1 Random Early Detection Gateways for Congestion Avoidance by Floyd and Jacobson #2 Tuning RED for Web Traffic by Christiansen et al.
September 24	Pankaj Didwania rek	P#3 The War between Mice and Elephants by Guo and Matta #4 Core-Stateless Fair Queueing: a Scalable Architecture to Approximate Fair Bandwidth Allocations in High Speed Networks by Stoica et al.
October 1	rek Brett Levasseur	*#5 Congestion Control for High Bandwidth-Delay Product Networks by Katabi et al. #6 TCP Westwood(+) Protocol Implementation in ns-3
October 8	Tran Didwania Levasseur rek	TCP Vegas; TCP Compound; TCP Cubic Wireless Networking Primer
October 15	Chung Tran rek	*#7 Characterization of 802.11 Wireless Networks in the Home by Yarvis et al. *#8 Observing Home Wireless Experience through WiFi APs by Patro et al.
October 22		No Class
October 29	rek Brett Levasseur rek	Cellular Networking Primer B#9 An In-depth Study of LTE: Effect of Network Protocol and Application Behavior on Performance by Huang et al. Wireless Sensor Network Primer
November 5	Pankaj Didwania Chung Tran	#10 Towards MIMO-Aware 802.11n Rate Adaptation by Pefkianakis et al. C#11 Defending against Flooding-Based Distributed Denial-of-Service Attacks: A Tutorial by Rocky Chang

November 12	rek rek	Routing Primer #12 <i>A Performance Comparison of Multi Hop Wireless Ad Hoc Network Routing Protocols</i> by Brock et al.
November 19	rek Chung Tran	Wireless Sensor Network Primer (cont) C#13 <i>Secure Routing in Wireless Sensor Networks: Attacks and Countermeasures</i> by Karlof and Wagner
December 3	Brett Levasseur rek rek	B#14 <i>Ultra-Low Duty Cycle MAC with Scheduled Channel Polling</i> by Ye et al. The Internet of Things #15 <i>The ContikiMAC Radio Duty Cycling Protocol</i> by Dunkels
December 10	Pankaj Didwania	P#16 <i>Containing Denial-of-Service Attacks in Broadcast Authentication in Sensor Networks</i> by Wang et al. Student Project Presentations
December 17	6 p.m. Brett 7 p.m. Chung	Oral Final Exam