Syllabus November 11, 2011

Date	Speaker	Topic / Paper
August 29	rek	Introduction, Course Requirements TCP Sliding Windows
September 12	rek rek rek	Review Performance Metrics Congestion Control and Queuing TCP Congestion Control
September 19	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 26	rek Eric Wang	 #3 Core-Stateless Fair Queueing: a Scalable Architecture to Approximate Fair Bandwidth Allocations in High Speed Networks by Stoica et al. #4 The War between Mice and Elephants by Guo and Matta
October 3	rek four students	#5 Congestion Control for High Bandwidth-Delay Product Networks by Katabi et al. TCP Flavors (Vegas, Cubic, Compound, High-Speed TCP)
October 10	rek Jim Gaskell rek	#6 An Implementation and Experimental Study of the eXplicit Control Protocol (XCP) by Zhang and Henderson #7 Defending against Flooding-Based Distributed Denial-of-Service Attacks: A Tutorial by Rocky Chang #8 An Analysis of the Skype Peer-to-Peer Internet Telephony by Baset and Schulzrinne
October 17		No Class
October 24	Steve He Lianmu Chen	 #9 Inferring Internet Denial of Service Activity by Moore et al. #10 DDoS Defense by Offense by Walfish et al.
October 31	rek Eric Wang	Wireless Networking Primer #11 CARA: Collision-Aware Rate Adaptation for IEEE 802.11 WLANs by Kim et al.
November 7	Jim Gaskell rek	#12 802.11 User Fingerprinting by Pang et al. Routing Primer

	Steve He	#13 A Performance Comparison of Multi Hop Wireless
		Ad Hoc Network Routing Protocols by Brock et al.
November 14	Lianmu Chen rek	#14 XORs in the Air: Practical Wireless Network Coding . by Katti et al. Wireless Sensor Network (WSN) Primer
November 21	Eric Wang	. #15 Ultra-Low Duty Cycle MAC with Scheduled Channel Polling by Ye et al.
	Jim Gaskell	. #16 Secure Routing in Wireless Sensor Networks: Attacks and Countermeasures by Karlof and Wagner
November 28	Steve He	#17 An Empirical Study of UHF RFID Performance by Buettner and Wetherall
	Lianmu Chen	#18 Design and Evaluation of a Versatile and Efficient Receiver-Initiated Link Layer for Low-Power Wireless by Dutta et al.
December 5	rek rek	#19 Low-Power Interoperability for the IPv6 Internet of Things by Dunkels et al.
		#20 Leveraging IP for Sensor Network Deployment by Duquennoy et al.
		Student Project Presentations (25 minutes each)
	Steve He & Eric Wang Jim Gaskell Lianmu Chen	Recent Research in Wireless Body Networks
		Telos Mote Implementation
		Security in Near Field Communications
December 12		Final Exam