Syllabus *October 19, 2007*

Date	Speaker	Topic / Paper
September 4	rek	Introduction TCP Sliding Windows Congestion Control and Queuing
September 11		No Class
September 18	rek rek	TCP Congestion Control #1 Random Early Detection Gateways for Congestion Avoidance by Floyd and Jacobson
September 25	rek rek rek	#2 Tuning RED for Web Traffic by Christiansen et al. #3 Core-Stateless Fair Queueing: a Scalable Architecture to Approximate Fair Bandwidth Allocations in High Speed Networks by Stoica et al. Computer Networking History
October 2	Chris Gianfrancesco & Rick Skowyra Pushkaraj Chitre & Meganne Atkins	#4 The War between Mice and Elephants by Guo and Matta #5 On Designing Improved Controllers for AQM Routers Supporting TCP Flows by Hollet et al.
October 9	Ivor Rodrigues & Syed Zaidi	#6 Emulating AQM from End Hosts by Bhandarkar et al.
	rek Ronak Bhuta & John Keenan	Wireless Primer #7 Enhancing TCP Fairness in Ad Hoc Wireless Networks Using Neighborhood RED by Xu and Gerla
October 16	rek	Routing Primer
	Angel Pagan & Xiang Li	#8 A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols by Broch et al.
	Adwait Belsare	#9 Improving TCP Performance over Mobile Ad Hoc Networks by Exploiting Cross-Layer Information Awareness by Yu

October 23	Chris Gianfrancesco	#10 Characterization and Analysis of Multi-Hop Wireless MIMO Network Throughput by Hamdaoui and Shin
	Suvesh Pratapa	#11 XORs in the Air: Practical Wireless Network Coding by Katti et al.
October 30	Syed Zaidi	#12 Solutions to Performance Problems in VoIP over a 802.11 Wireless LAN by Wang et al.
	Pushkaraj Chitre	#13 802.11 User Fingerprinting by Pang et al.
November 6	rek	. #14 On the Performance Characteristics of WLANs: Revisited by Choi et al.
	Meganne Atkins	#15 Robust Rate Adaptation for 802.11 Wireless Networks by Wong et al.
	rek	#16 CARA: Collision-Aware Rate Adaptation for IEEE 802.11 WLANS by Kim et al.
November 13	Adwait Belsare & Suvesh Pratapa	. #17 Defending against Distributed Denial of Service Attacks: A Tutorial by Chang / . DDOS Defense by Offense by Walfish et al.
	Ivor Rodrigues	. #18 Secure Routing in Wireless Sensor Networks: Attacks and Coutermeasures by Karlof and Wagner
November 27	rek	WSN Primer
	Xiang Li	#19 An Energy-Efficient MAC Protocol for Wireless Sensor Network by Ye et al.
	Angel Pagan	. #20 WiseMAC: An Ultra Low Power MAC Protocol for the Downlink of Infrastructure Wireless Sensor Networks by El-Hoiydi and Decotignie
December 4	Ronak Bhuta	#21 Ultra-Low Duty Cycle MAC with Scheduled Channel Polling by Ye et al.
	Rick Skowyra	. #22 Energy-Efficient Communication Protocol for Wireless Microsensor Networks by Heinzelman et al.
December 11		Final Exam