Syllabus
Summer 2003
July 29, 2003

Date	Speaker	Topic / Paper
June 3	**rek**	Course Introduction Computer Networks History TCP Sliding Windows
June 10	**rek** **rek**	Congestion Control and Queuing TCP Congestion Control ***"Random Early Detection Gateways for Congestion Avoidance"*** by Floyd and Jacobson
June 17	**Luba Sakharuk** **Eswin Anzueto** **rek**	**"*Tuning RED for Web Traffic"*** by Christiansen et al. ***"The War between Mice and Elephants"*** by Guo and Matta **"*Core-Stateless Fair Queueing: Achieving Approximately Fair Bandwidth Allocations in High Speed Networks*"** by Stoica, Shenker, and Zhang
June 24	**Yixin Hua** **Hareesh Pattipati** **Matthew Packard**	**"*Promoting the Use of End-to-End Congestion Control in the Internet*"** by Floyd and Fall **"*Analysis and Design of an Adaptive Virtual Queue (AVQ) Algorithm for Active Queue Management"*** by Kunniyur and Srikant ***"Congestion Control for High Bandwidth-Delay Product Networks"*** by Katabi, Handley, and Rohrs
July 1	**rek** **Michael Pincott** **Matthew Vidal**	**"A State Feedback Control Approach to Stabilizing Queues for ECN-Enabled TCP Connections"** by Gao and Hou **MANETconf: Configuration of Hosts in a Mobile Ad Hoc Network,** by Nesargi and Prakash **Interworking Internet Telephony and Wireless Telecommunications Networks,** by Lennox et al.
July 8	**Vikrant Karan** **Eswin Anzueto** **Yixin Hua**	**A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols,** by Broch et al. **Comprehensive Performance Analysis if a TCP Session Over a Wireless Fading Link with Queueing,** by Abouzeid and Roy **Understanding TCP fairness over Wireless LAN,** by Pilosof et al.
July 15	**Philip Hardebeck** **Luba Sakharuk** **Hareesh Pattipati**	**The Impact of Multihop Wireless Channel on TCP Throughput and Loss,** by Fu et al. **Packet Leashes: A Defense aginst Wormhole Attacks in Wireless Networks** **Detecting SYN Flooding Attacks,** by Wang, Zhang and Shin
July 22	**Matthew Packard** **Michael Pincott**	**A Technique for Counting NATted Hosts,** by Bellovin **Save: Source Address Validity Enforcement Protocol,** by Li

	Matthew Vidal	et al. **Detecting Network Intrusions via Sampling: A Game Theoretic Approach,** by Kodialam and Lakshman
July 29	**Vikrant Karant** **Matthew Packard** **Michael Pincott** **Matthew Vidal** **Eswin Anzueto** **Yixin Hua** **Hareesh Pattipati** **Luba Sakharuk** **Vikrant Karant**	**The Honeynet Project: Trapping the Hackers,** by Spitzner **Storage Area Networks** **Internet2** **Simulating Web Traffic** **Firewalls** **3Com Network Measurement** **Wireless Security**
August 5		**Oral Final Exams in FL135** **5:00 Matthew Packard** **5:30 Eswin Anzueto** **6:00 Michael Pincott** **6:30 Hareesh Pattipati** **7:00 Matthew Vidal** **7:30 Yixin Hua** **8:00 Luba Sakharuk** **8:30 Vikrant Karant**