ECSE-6600 Internet Protocols.
Spring 2007 Tentative Schedule:

Note: Exam dates: Feb 23\textsuperscript{rd} 2007, March 30\textsuperscript{th} 2007, May 1\textsuperscript{st} 2007

JANUARY:

1/2 January 16\textsuperscript{th}/Jan 19\textsuperscript{th}, 2007
Lecture 1: Course Introduction, Review of networking (Chap 1-7)
Lecture 2: Review of networking (Chap 1-7 readings)

3/4 January 23\textsuperscript{rd}/Jan 26\textsuperscript{th}, 2007

\textbf{Lab 1 assigned}
Lecture 3: Review of networking, Architecture (Chap 1-7, readings)
Lecture 4: IP, Packet format, Addresses, Fragmentation, ARP (Chap 3, 10)

Jan 30\textsuperscript{th} (see below)

FEBRUARY:

5/6 Jan 30/Feb 2nd, 2007
[\textit{Instructor away: substitute online video lecture (details to be announced)}]
Lecture 5: Comparison with other internetworking models (CLNP, IPX, Appletalk)
Lecture 6: UDP, TCP data flow & Congestion control (chap 12,13)

7/8 February 6\textsuperscript{th}/Feb 9\textsuperscript{th}, 2007
Lecture 7: Congestion Control Techniques (Chap 13 + readings)
Lecture 8: Congestion Control Techniques (Chap 13 + readings)

9/10 February 13\textsuperscript{th}/Feb 16\textsuperscript{th}, 2007
\textbf{Lab 1 due (Feb 16\textsuperscript{th}), Lab 2 Assigned}
Lecture 9: Routing I: Basic Ideas (Chap 11)
Lecture 10: Routing I: Basic Ideas (Chap 11) … Continued
11 February 20th/Feb 23rd, 2007
NOTE: February 20 Follow Monday class schedule. No class.
Lecture 11: EXAM 1 (Feb 23rd)

Feb 27th (see below)

MARCH:

12/13 February 27th/March 2nd, 2007
Lecture 12: Routing II: Protocols & Advanced Intra-domain Topics
( RIP, OSPF, EIGRP, IS-IS, PNNI: Chap 11)
Lecture 13: Routing III: Inter-domain Routing (Chap 11+ readings)

{March 5-9 - NO CLASSES - Spring Break.}

14/15 March 13th/March 16th, 2007
Lecture 14: Routing III: Inter-domain Routing (Chap 11 + readings)… Continued
Lecture 15: Multicast: IGMP, multicast routing (Chap 11, 8.6)

16/17 March 20th/Mar 23rd, 2007
Lab 2 Due (March 23rd)
Lecture 16: Multicast Transport, Multicast Congestion Control (Chap 11+)
Lecture 17: Multicast deployment issues, Source-specific Multicast (Chap 16+)

18/19 March 27th/Mar 30th, 2007
Lecture 18: Auto-Configuration/Network Mgmt/NAT
(BOOTP, DHCP, SNMP, NAT)
Case Study Choices Communicated to TA (March 27th)
Lecture 19: EXAM 2: (March 30th)

APRIL:

20/21 April 3rd/Apr 6th, 2007
Lecture 20: IPv6 Design & Comparison with IPX, Appletalk, CLNP
Lecture 21: Naming (DNS), Overlay & Peer-to-Peer Networks (Chap 10+)
22/23  April 10\textsuperscript{th}/April 13\textsuperscript{th}, 2007
Lecture 22: Beyond Best Effort: (Scheduling, Shaping, RTP, RSVP, integrated, differentiated services, IP Telephony: Chap 4,9,14)
Lecture 23: Beyond Best Effort: Continued…

24/25  April 17\textsuperscript{th}/April 20\textsuperscript{th}, 2007
\textit{[Instructor may be away: substitute online video lecture (details to be announced)]}
Lecture 24: Traffic Engineering: MPLS, IP-over-ATM, COPS (4, 14+)
\textbf{[TIME PERMITTING]}
Lecture 25: Security: Firewalls, IPSEC, VPNs
\textbf{[TIME PERMITTING]}

26/27  April 24\textsuperscript{th}/April 27\textsuperscript{th}, 2007
\textbf{Case Study Due} (April 27\textsuperscript{th})
Lecture 26: Security: Firewalls, IPSEC, VPNs (Continued) \textbf{[TIME PERMITTING]}
Lecture 27: residual topics + review/wrapup.

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28  May 1\textsuperscript{st} 2007

\textbf{EXAM 3:}  1\textsuperscript{st} part of class