Tentative Topic and Exam Schedule, ECE 340, Fall 2011

Day	Date	Topic	Chapters
T	Aug. 23	Intro/Background/Descriptions of Signals	1.1 – 1.5
TR	Aug. 25	Descriptions of Signals/Descriptions of Systems	1.6-1.7
T	Aug. 30	Descriptions of Systems	
TR	Sept. 1	*No class: out of town	
T	Sept. 6	Impulse response and convolution	2.3 – 2.4
TR	Sept. 8	Convolution examples	
T	Sept. 13	Response to a sinusoid/Stability	2.6
TR	Sept. 15	Insights on system behavior	2.7
T	Sept. 20	Periodic signals and trigonometric Fourier Series	6.1
TR	Sept. 22	Convergence/Parseval/Exponential Fourier Series	6.2 – 6.3
T	Sept. 27	Response to periodic inputs/Generalized Fourier Series	6.4 – 6.5
TR	Sept. 29	Exam #1	
T	Oct. 4	Aperiodic signals and the Fourier Transform	7.1
TR	Oct. 6	Fourier Transform pairs, theorems, and properties	7.2 – 7.3
T	Oct. 11	System analysis with the Fourier Transform	7.4
TR	Oct. 13	Parseval's theorem/Filtering	7.5 – 7.6
T	Oct. 18	Laplace Transform review/Relationship to Fourier Transform	4.1
TR	Oct. 20	Properties of Laplace Transform/Stability	4.2 – 4.3
T	Oct. 25	Transfer functions and frequency response	4.8
TR	Oct. 27	Block diagrams/Bode plots	4.5, 4.9
T	Nov. 1	Exam #2	
TR	Nov. 3	Sampling and reconstruction/A-D Conversion	8.1 – 8.2
T	Nov. 8	Time, frequency sampling duality/Representation of discrete-time signals	8.4, 3.1 – 3.2
TR	Nov. 10	Difference equations and unit impulse response	3.5, 3.7
T	Nov. 15	Convolution sum	3.8
TR	Nov. 17	Z-transform	5.1
T	Nov. 22	Properties of the Z-transform/ Transfer function and system stability	5.2 – 5.3
TR	Nov. 24	Thanksgiving Holiday	
T	Nov. 29	Frequency response of discrete-time systems	5.5, 5.8
TR	Dec. 1	State space analysis	
T	Dec. 6	Final catch-up and review	
T	Dec. 13	Final Exam	