

George Mason University
ECE 220: SIGNALS & SYSTEMS I
 Spring 2008 Syllabus

Lec#	Date	Lecture Topic	Reading	Problem Set		Lab Project	
				Out	Due	Out	Due
1	W 1/23	Introduction & brief background review	O/W 1.0-1.1, p. 71	1			
2	M 1/28	Basic signals & signal operations	O/W 1.2-1.4				
3	W 1/30	System properties	O/W 1.5-1.7	2	1	1	
4	M 2/4	LTI systems and the convolution integral	O/W 2.0, 2.2				
5	W 2/6	Graphical convolution	O/W 2.0, 2.2	3	2		
6	M 2/11	LTI system properties	O/W 2.3				
7	W 2/13	Differential equations	O/W 2.4.1, 2.4.3	4	3		
8	M 2/18	Singularity functions	O/W 2.5-2.6				
9	W 2/20	Eigenfunctions	O/W 3.0-3.2		4		
10	M 2/25	Exam 1: covers material through 2/18					
11	W 2/27	Laplace transform	A/S 15.1-15.2	5			
12	M 3/3	Laplace transform properties	A/S 15.3				
13	W 3/5	Inverse Laplace transform	A/S 15.4	6	5		
	M 3/10	<i>Spring Break</i>					
	W 3/12	<i>Spring Break</i>					
14	M 3/17	Problem-solving with Laplace	A/S 15.5				
15	W 3/19	Problem-solving with Laplace	A/S 15.6-15.7	7	6		
16	M 3/24	Eigenfunctions and Fourier series	O/W 3.2-3.3				
17	W 3/26	Fourier series properties	O/W 3.5	8	7		
18	M 3/31	LTI response to periodic inputs	O/W 3.8-3.9				
19	W 4/2	FS convergence and other issues	O/W 3.4, 3.10		8		
20	M 4/7	Exam 2: covers material through 3/31					
21	W 4/9	Fourier transform	O/W 4.0-4.2	9			
22	M 4/14	Fourier transform properties	O/W 4.3				
23	W 4/16	Convolution and multiplication properties	O/W 4.4-4.5	10	9		
24	M 4/21	Frequency analysis of LTI systems	O/W 6.0-6.2				
25	W 4/23	Ideal and practical filters	O/W 6.3-6.4	11	10		
26	M 4/28	Bode plots	O/W 6.5				
27	W 4/30	PZ plots and frequency response	O/W 9.4	12 (practice)	11		
28	M 5/5	LTI systems analysis	O/W 9.7				
	M 5/12	Comprehensive Final: 1:30pm-4:15pm					

Notes: O/W indicates a reading assignment in the Oppenheim/Willsky textbook. A/S indicates a reading assignment in the Alexander/Sadiku textbook.

Other Important Dates

- February 5: Last date to add courses and Last date to drop with no tuition penalty
- February 12: Last date to drop with 33% tuition penalty
- February 22: Last date to drop
- March 10-16: Spring break
 - May 5: Last day of classes
 - May 6: Reading day
 - May 7-14: Exam period