

### Course Schedule and Assignments for ELC 3335 – Spring 2019

Date	Day	Lect.	Lecture Topics	Chapter	Pages	Problems
1/15	T	1	Introduction, Syllabus, Preliminaries, Complex Numbers	B	1-19	-
1/17	R	2	Size of a Signal, Classification of Signals	1	51-61	1.1-1, 1.1-2, 1.1-6
1/22	T	3	QUIZ 1, Some Useful Signal Operations, Some Useful Signal Models	1	61-75	1.3-1, 1.3-3, 1.4-1, 1.4-2, 1.4-5, 1.4-11
1/24	R	4	Even and Odd Functions	1	75-77	1.5-1
1/29	T	5	QUIZ 2, Systems, Classification, System Model	1	77-93	1.7-1, 1.7-2, 1.7-7
1/31	R	6	Introduction to Time-Domain Analysis, Zero-Input Response	2	104-115	2.2-1, 2.2-4, 2.2-6, 2.2-7
2/5	T	7	QUIZ 3, The Unit Impulse Response	2	115-118 161-163	2.3-1, 2.3-4
2/7	R	8	Zero-State Response (Part 1)	2	118-136	2.4-4, 2.4-5, 2.4-7, 2.4-9
2/12	T	9	QUIZ 4, Zero-State Response (Part 2)	2	104-108	2.4-14, 2.4-15, 2.4-16
2/14	R	10	Classical Solution of Differential Equations, System Stability, Intuitive Insights	2	139-161	2.5-1, 2.5-3, 2.5-4, 2.6-1, 2.6-3
2/19	T	11	QUIZ 5, Signals and Vectors, Signal Comparison: Correlation	3	171-182	3.1-2, 3.1-4, 3.2-1
2/21	R	12	Signal Representation by Orthogonal Signal Set, Trigonometric Fourier Series (Part 1)	3	183-198	3.3-1, 3.4-1, 3.4-2, 3.4-3
2/26	T		TEST 1: Chapters 1,2, and 3.1, Closed Book/Closed Notes, 1 hour and 15 minutes			
2/28	R	13	Trigonometric Fourier Series (Part 2)	3	198-209	3.4-4, 3.4-6
3/5	T	14	QUIZ 6, Exponential Fourier Series	3	209-216	3.5-1, 3.5-2, 3.5-3
3/7	R	15	Aperiodic Signal Representation by Fourier Integral (Part 1)	4	235-239	4.1-4, 4.1-5
3/11-3/15			NO CLASS: Spring Break			
3/19	T	16	QUIZ 7, Aperiodic Signal Representation by Fourier Integral (Part 2), Transforms of Some Useful Functions	4	239-251	4.1-6, 4.1-7
3/21	R	17	Some Properties of the Fourier Transform	4	251-266	4.3-1, 4.3-3, 4.3-6
3/26	T	18	QUIZ 8, Signal Transmission through LTIC Systems, Ideal and Practical Filters, Signal Energy	4	267-277	4.4-1, 4.4-2, 4.6-1, 4.6-4
3/28	R	19	The Sampling Theorem	5	319-331	5.1-1, 5.1-2, 5.1-3
4/2	T	20	QUIZ 9, The Laplace Transform (Part 1)	6	361-371	6.1-1, 6.1-2
4/4	R		TEST 2: Chapters 3 (except 3.1), 4, and 5			
4/9	T		NO CLASS: Diadeloso			
4/11	R	21	QUIZ 10, The Laplace Transform (Part 2)	6	371-381	6.1-3
4/16	T	22	QUIZ 11, Some Properties of the Laplace Transform	6	381-390	6.2-1, 6.2-3
4/18	R	23	Solution of Differential and Integro-Differential Equations	6	390-398	6.3-2, 6.3-3, 6.3-5, 6.3-6, 6.3-7
4/23	T	24	QUIZ 12, Block Diagrams, System Realization	6	411-422	6.6-1, 6.6-2, 6.6-5
4/25	R	25	Some Useful Discrete-Time Signal Models	8	540-557	8.2-1, 8.2-3, 8.2-9, 8.2-10
4/30	T	26	QUIZ 13, Sampling Continuous-Time Sinusoids, Useful Signal Operations, Examples of Discrete-Time Systems	8	557-568	8.3-1, 8.3-3, 8.4-1, 8.4-3
5/2	R	27	Discrete-Time System Equations, Zero-Input Response, Final Exam Review	9	573-582	9.1-1, 9.1-4, 9.2-1, 9.2-3
5/8	W		FINAL EXAM: Cumulative, 2:00 – 4:00 p.m., Closed Book/Closed Notes, 2 hours			