

Tentative Schedule – Fall 2018

Day	Date	Topic(s)	Homework Problems Due
Tuesday	August 21	Introduction	
Thursday	August 23	OpAmp Building Blocks, Review of Nodal & Mesh/Loop Analysis	
Tuesday	August 28	Log and Antilog Amplifiers	
Thursday	August 30	An Analog Multiplier	1 – 5
Tuesday	September 04	SPICE Simulation	
Thursday	September 06	SPICE Diode Models	6 – 10
Tuesday	September 11	A Bandpass Filter, Bode Plots with MATLAB/Freemat	
Thursday	September 13	Review of Voltage and Current Dividers	11 – 15
Tuesday	September 18	Review of Thevenin/Norton Equivalence, Superposition	
Thursday	September 20	Reciprocity	16 – 20
Tuesday	September 25	No Class Meetings this Week	
Thursday	September 27	Take-Home Exam #1 due by 4:00PM Friday, September 28	
Tuesday	October 02	Two-Port Network Parameters	
Thursday	October 04	More Two-Port Parameters	21 – 25
Tuesday	October 09	SNAP	
Thursday	October 11	More SNAP	26 – 30
Tuesday	October 16	Cascaded Two-Port Networks, Two-Port Equivalent Circuits	
Thursday	October 18	Simulated Inductor Circuits	31 – 35
Tuesday	October 23	Network Synthesis from Immittance Functions	
Thursday	October 25	Cauer Synthesis	36 – 40
Tuesday	October 30	No Class Meetings this Week	
Thursday	November 01	Take-Home Exam #2 due by 4:00PM Friday, November 02	
Tuesday	November 06	Cauer and Foster Synthesis	
Thursday	November 08	Positive Real Functions & Realization as an RLC Network	41 – 45
Tuesday	November 13	Reactive Functions, LC Networks, Filter Transformations	
Thursday	November 15	LP, BP & HP Frequency Scaling	46 – 50
Tuesday	November 20	No Class Meetings this Week	
Thursday	November 22	***** Fall Recess *****	
Tuesday	November 27	Impedance Scaling, Inductorless Filter Design	
Thursday	November 29	State Equations, Solution by ODE Methods & SFG	51 – 55
Tuesday	December 04	Solution by State Transition Matrix	
Thursday	December 06	Circuit Design from SFG	56 – 60
M-F	December 10-14	No Class Meetings this Week	
	Final Exam Week	Take-Home Final Exam due by 4:00PM Friday, December 14	

Actual classroom discussion may vary from this schedule, and some topics may change based on individual interests.

Class normally meets Tuesday & Thursday, 1:00PM – 2:15PM, in REND 104.

Exams, including the Final Exam, will be take-home.