

# SCHEDULE FOR ECE524F

**Table 1: FALL 2002**

Week Starting	Lecture No.	Content	Home-work	Lab	Tutorial
Sept. 2 week#1	1 Th. 9-10 RS310 <b>Starts Sept. 5</b>	Course outline.			<b>Note:</b>  <b>MS=Micah Stickel stickel@wa ves Rm: BA4175 Tel. 978- 6389</b>  <b>AG=Antho ny Grbic grbica@wa ves Rm: BA4175 Tel. 978- 6389</b>
Sept. 9 week#2	2 Wed. 11-12 BA1240	Wave equation. Plane-waves.	HWK#1		
	3	Good dielectrics. Good conductors; skin depth.			TUT01 TUT1 (AG) Fri. 4-5 BA2179 <b>Starts Sept. 13</b>
Sept. 16 week#3	4	Circuit model for a TL; TL equations. Lossless line; low-loss line.	HWK#2	PRA01 LAB1-I (AG) Thu. 4-7 BA3114 <b>Starts Sept. 19</b>	

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	5	Extraction of line parameters from geometry. The terminated lossless line.			TUT02 TUT1 (AG) Mon. 9-10 BA2179 <b>Starts Sept. 16</b>
Sept. 23 week#4	6	Impedance-transformation. Special cases of terminated lines.	HWK#3	PRA02 LAB1-I (AG) Mon. 9-12 BA3114 <b>Starts Sept. 23</b>	
	7	Transients on TLs. Bounce diagrams.			TUT01 TUT2 (AG) Fri. 4-5 BA2179
Sept. 30 week#5	8	Propagation of modulated signals on TLs. Dispersion. Group delay.	HWK#4	PRA01 LAB1-II (AG) Thu. 4-7 GB450	
	9	Mismatch losses. Power transfer. Introduction to matching networks.			TUT02 TUT2 (AG) Mon. 9-10 BA2179
Oct. 7 week#6	10	L-Matching. Smith Chart.	HWK#5	PRA02 LAB1-II (AG) Mon. 9-12 GB450	

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	11	Single-stub tuning. Double-stub tuning.			TUT01 TUT3 (MS) Fri. 4-5 BA2179
Oct. 14 week#7	12	Planar Lines-I: Stripline, microstrip, CPW.		PRA01 LAB2-I (MS) Thu. 4-7 BA3114	
	13	Planar Lines-II: Microstrip Discontinuitie I; DC bias techniques for transistors.			<b>NO TUTO- RIAL (Thanks- giving)</b>
Oct. 21 week#8	14	<b>MIDTERM-Wed. Oct. 23</b> (11-12am, BA1240)		PRA02 LAB2-I (MS) Mon. 9-12 BA3114	
	15	Planar Lines-III: Microstrip Discontinuities. Microstrip lumped elements. MMIC's.			TUT01 TUT4 (MS) Fri. 4-5 BA2179
Oct. 28 week#9	16	Z,Y matrices; The S-Matrix; Matrix conversions;Properties.	HWK#6	PRA01 LAB2-II (MS) Thu. 4-7 GB450	

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	17	Generalized S-matrix. 2-ports; ABCD Matrix; Cascaded networks; Pi and T Equivalent circuits for 2-ports.			TUT02 TUT3 (MS) Mon. 9-10 BA2179
Nov. 04 week#10	18	Properties of 3 ports. Circulators and Isolators.	HWK#7	PRA02 LAB2-II (MS) Mon. 9-12 GB450	
	19	Wilkinson divider/combiner. Even-odd mode analysis technique.			TUT01 TUT5 (MS) Fri. 4-5 BA2179
Nov. 11 week#11	20	Directional Couplers; Reflectometer. Branch line coupler, ring hybrid.	HWK#8	PRA01 LAB3-I (AG) Thu. 4-7 BA3114	
	21	Coupled-line couplers. Lange Coupler.			TUT02 TUT4 (MS) Mon. 9-10 BA2179
Nov. 18 week#12	22	RF Amplifiers-I	HWK#9	PRA02 LAB3-I (AG) Mon. 9-12 BA3114	

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	23	RF Amplifiers-II			TUT01 TUT6 (MS) Fri. 4-5 BA2179
Nov. 25 week#13	24	Filters I: Prototypes.		PRA01 LAB3-II Thu. 4-7 GB450 (AG) <b>Receiver-Demo (MS)</b>	
	25	Filters II: Implementation.			TUT02 TUT5 (MS) Mon. 9-10 BA2179
Dec. 02 week#14	26	RF Receiver Chains. Image suppression.		PRA02 LAB3-II Mon. 9-12 GB450 (AG) <b>Receiver-Demo (MS)</b>	