

**MASTER OF SCIENCE IN ELECTRICAL ENGINEERING (MSEE)
WIRELESS AND MICROWAVE TRACK* OPTIONS**

*Curriculum Program of Study
Advisor Dr. J. Wang*

Name		USF ID #			
Term/Year Admitted					
Address					
Phone					
Email					
Advisor					
Areas of focus: Wireless and Microwave Optional Focus areas: Wireless Circuits, Wireless Systems, or Antenna and Electromagnetics					
Course Title		Number	Credits	Semester	Grade
1. Mathematics: 6 hours					
Linear and Matrix Algebra		EEL 6935	3		
Numerical Methods and Partial Differential Equations		EEL 6935	3		
Optimization Methods		EEL 6935	3		
Statistical Inference		EEL 6936	3		
Random Processes		EEL 6545	3		
Time Series Analysis		STA 6876	3		
Engineering Apps for Vector Analysis **		EEL 6027	3		
Engineering Apps for Partial Diff. Eq. **		EEL 6023	3		
Engineering Apps of Complex Analysis **		EEL 6022	3		
2. Wireless and Microwave Core: 12 hours (2 sets of sequences)					
Sequence 1: Wireless Circuits <i>(Any two courses in this group can form a sequence)</i>					
Wireless Circuits and Systems Laboratory		EEL 5936	3		
RF/Microwave Circuits I		EEL 6426	3		
RF/Microwave Circuits 2		EEL 6427	3		
MMIC Design		EEE 6430	3		
RF/MW Power Amp Design		EEE 6428	3		
RF & Microwave Measurements		EEL 6425	3		
Sequence 2: Wireless Systems <i>(Any two courses in this group can form a sequence)</i>					
Digital Communication Systems		EEL 6534	3		
Mobile and Personal Communication		EEL 6593	3		
Wireless Network Architecture		EEL 6597	3		
Wireless Communications System Laboratory		EEL 6936	3		
Sequence 3: Antenna and EM <i>(Any two courses in this group can form a sequence)</i>					
Electromagnetic Field Theory		EEL 6486C	3		
Antenna Theory		EEL 5462	3		
Advanced Antenna Theory		EEL 6463	3		
Numerical Tech. in Electromagnetism		EEL 6481C	3		
Sequence 4: MEMS and Microsystems					
MEMS I		EEE 6276	3		
MEMS II		EEE 6278	3		
3. Electives: 6 hours <i>(Any two courses listed in the Track Core can be chosen as electives)</i>					
4. Thesis/Coursework Options:					
Thesis Option: 6 hours			6		
Non-Thesis Option: 6 hours of project, additional electives, or independent study hours of electives			6		

*Tracks are for student benefit only. They will not show on scripts or diplomas.

** This course is no longer offered but will be recognized for credit if previously taken.

	Total Credits Outside EE
	Total Credits Independent Study
	Total Credits (30 required)