

2020 ELECTRICAL ENGINEERING: RF and Microwaves Track
COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEGREE REQUIREMENT CHECKSHEET
UNIVERSITY OF CENTRAL FLORIDA

GENERAL EDUCATION PROGRAM				LOWER AND JUNIOR LEVEL REQUIRED COURSES		
* Indicates "C-" minimum required by the Gordon Rule				SH	Grd	Trans Equiv
** Indicates minimum "C" or better grade						
COMMUNICATION (9 SEM HRS)	SH	Grd	Trans Equiv			
ENC 1101	3	*		EGS 1006C Introduction to the Engineering Profession	1	#
ENC 1102	3	*		EGN 1007C Engineering Concepts and Methods	1	#
SPC 1603C	3			STA 3032 Probability & Statistics for Engineers	GEP	
CULTURAL & HISTORICAL (9 SEM HRS)				PHY 3101 General Physics Using Calculus III	3	
Select 2: AMH 2010, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WOH 2012, WOH 2022	6	*		EEL 3926L Junior Design	1	
Approved Cultural Foundations course:	3			EGN 3211 Engineering Analysis & Computation	3	**
SOCIAL FOUNDATION - (6 SEM HRS)				EEL 3004C Linear Circuits I	3	**
ANT 2000/ PSY 2012/ SYG 2000	3			EEL 3123C Linear Circuits II	3	**
ECO 2013 <u>or</u> ECO 2023	3			EEE 3307C Electronics I	4	
SCIENCE - 6 SH				EEE 3342C Digital Systems	3	**
GEO 1200 <u>or</u> GEO 2370 (either GEO is preferred) <u>or</u> BSC 1050C <u>or</u> BSC 1005C <u>or</u> GLY 1030	3			EEL 3801C Computer Organization	4	**
PHY 2048C General Physics Using Calculus I	4			EEL 3470 Electromagnetic Fields	3	
MATHEMATICAL - 6 SH				JUNIOR LEVEL ELECTIVE COURSES (CHOOSE 2)		
MAC 2311C Calculus with Analytic Geometry I	4	**		EEE 3350 Semiconductor Devices	3	
STA 3032 Probability & Statistics for Engineers	3			EEL 3552C Signal Analysis & Analog Communication	4	
GPA Gen Ed Prog =	36			EEL 3657 Linear Control Systems	3	
ENGINEERING CORE**				SENIOR LEVEL REQUIRED COURSES		
MAC 2311C Calculus with Analytic Geometry I	GEP	**		EEE 4309C Electronics II	4	
MAC 2312 Calculus with Analytic Geometry II	4			EEL 4742C Embedded Systems	3	
MAC 2313 Calculus with Analytic Geometry III	4	**		RECOMMENDED SENIOR LEVEL ELECTIVE COURSES		
MAP 2302 Ordinary Differential Equations I	3	**		(CHOOSE MINIMUM 3 FROM LIST)		
CHS 1440 Principles of Chemistry (or CHM 2045C)	4	**		EEL 4436C Microwave Engineering	4	
PHY 2048C General Physics Using Calculus I	GEP	**		EEL 4140C Analog Filter Design	4	
PHY 2049C General Physics Using Calculus II	4	**		EEL 4512C Digital Communications	4	
		**		EEL 4518 Satellite Communications	3	
SUBTOTAL SEM HRS	19			EEL 5437C Microwave Engineering	4	
				EEL 5462C Antenna Analysis and Design	3	
				EEL 5439C RF and Microwave Communications	4	
				EEE 5557 Introduction to Radar Systems	3	
				EEL 5432 Satellite Remote Sensing	3	
				EEE 5356C Fabrication of Solid State Devices	4	
				EEL 5513 DSP Applications	3	
				EEE 5265 Bio-Medical Effects and Applications of EM Energy	3	
				EEE 5370 Operational Amplifiers	3	
				EEE 5378 CMOS Analog and Digital Circuit Design	3	
				REQUIRED		
				<i>Technical Electives (EEE or EEL 4XXX or 5XXX)</i>	10-14	~
				EEL 4914 Senior Design I	3	
				EEL 4915L Senior Design II	3	
				SUBTOTAL SEM HRS	71	

** A Grade of C (2.00) or higher required

Transfer students please see your faculty advisor before registering for these classes.

GPA Engr Option = (2.250 minimum)

ADVISOR COMMENTS:
 ~BS-MS students should choose (3 SH) 5000 level courses as electives.

