

2021 ELECTRICAL ENGINEERING: RF and Microwaves Track

DEGREE REQUIREMENT CHECKSHEET

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

UNIVERSITY OF CENTRAL FLORIDA

GENERAL EDUCATION PROGRAM				LOWER AND JUNIOR LEVEL REQUIRED COURSES			SH	Grd	Trans Equiv
* Indicates "C-" minimum required by the Gordon Rule				EGS 1006C Introduction to the Engineering Profession	1	#			
** Indicates minimum "C" or better grade				EGN 1007C Engineering Concepts and Methods	1	#			
COMMUNICATION (9 SEM HRS)	SH	Grd	Trans Equiv	STA 3032 Probability & Statistics for Engineers	GEP				
ENC 1101	3	*		PHY 3101 General Physics Using Calculus III					
ENC 1102	3	*		EEL 3926L Junior Design					
SPC 1603C	3			EGN 3211 Engineering Analysis & Computation		**			
CULTURAL & HISTORICAL (9 SEM HRS)				EEL 3004C Linear Circuits I	3	**			
Select 2: AMH 2010, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WOH 2012, WOH 2022	6	*		EEL 3123C Linear Circuits II	3	**			
Approved Cultural Foundations course:	3			EEE 3307C Electronics I	4				
SOCIAL FOUNDATION - (6 SEM HRS)				EEE 3342C Digital Systems	3	**			
ANT 2000/ PSY 2012/ SYG 2000	3			EEL 3801C Computer Organization	4	**			
ECO 2013 <i>or</i> ECO 2023	3			EEL 3470 Electromagnetic Fields	3				
SCIENCE - 6 SH				JUNIOR LEVEL ELECTIVE COURSES (CHOOSE 2)			SH	Grd	Trans Equiv
GEO 1200 <i>or</i> GEO 2370 (either GEO is preferred) <i>or</i> BSC 1050C <i>or</i> BSC 1005C <i>or</i> GLY 1030	3			EEE 3350 Semiconductor Devices	3				
PHY 2048C General Physics Using Calculus I	4			EEL 3552C Signal Analysis & Analog Communication	4				
MATHEMATICAL - 6 SH				EEL 3657 Linear Control Systems	3				
MAC 2311C Calculus with Analytic Geometry I	4	**		SENIOR LEVEL REQUIRED COURSES			SH	Grd	Trans Equiv
STA 3032 Probability & Statistics for Engineers	3			EEE 4309C Electronics II	4				
GPA Gen Ed Prog =	36			EEL 4742C Embedded Systems	3				
ENGINEERING CORE**				EEL 4436C Microwave Engineering	4				
MAC 2311C Calculus with Analytic Geometry I	GEP	**		RECOMMENDED SENIOR LEVEL ELECTIVE COURSES			SH	Grd	Trans Equiv
MAC 2312 Calculus with Analytic Geometry II	4			(CHOOSE MINIMUM 3 FROM LIST)					
MAC 2313 Calculus with Analytic Geometry III	4	**		EEL 4140C Analog Filter Design	4				
MAP 2302 Ordinary Differential Equations I	3	**		EEL 4515C Fundamentals of Digital Communication	4				
CHS 1440 Principles of Chemistry (or CHM 2045C)	4	**		EEL 4518 Satellite Communications	3				
PHY 2048 & PHY 2048L General Physics Using Calculus I & Lab	GEP	**		EEL 4750 Digital Signal Processing Fundamentals	3				
PHY 2049 & PHY 2049L General Physics Using Calculus II & Lab	4	**		EEL 5462C Antenna Analysis and Design	3				
		**		EEL 5439C RF and Microwave Communications	4				
SUBTOTAL SEM HRS	19			EEE 5557 Introduction to Radar Systems	3				
				EEL 5432 Satellite Remote Sensing	3				
				EEE 5356C Fabrication of Solid State Devices	4				
				EEE 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					
				Technical Electives (EEE or EEL 4XXX or 5XXX)	10-12	~			
				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.

