

2020 ELECTRICAL ENGINEERING: Communications and Signal Processing Track
COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEGREE REQUIREMENT CHECKSHEET
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			3		
ENC 1102	3	*		EEL 3926L Junior Design			1		
				EGN 3211 Engineering Analysis & Computation			3	**	
SPC 1603C	3			EEL 3021 Introduction to Applied Randomness for Engineers			3		
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 <u>or</u> ECO 2023	3			EEL 3552C Signal Analysis & Analog Communication			4		
SCIENCE - 6 SH				JUNIOR LEVEL ELECTIVE COURSES (CHOOSE 2)			SH	Grd	Trans Equiv
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 3470 Electromagnetic Fields			3		
PHY 2048C General Physics Using Calculus I	4			EEL 3657 Linear Control Systems			3		
MATHEMATICAL - 6 SH				EEE 3350 Semiconductor Devices			3		
MAC 2311C Calculus with Analytic Geometry I	4	**		SENIOR LEVEL REQUIRED COURSES			SH	Grd	Trans Equiv
STA 3032 Probability & Statistics for Engineers	3			EEL 4750 Digital Signal Processing Fundamentals			3		
GPA Gen Ed Prog =	36			EEL 4515C Fundamentals of Digital Communication Systems			4		
ENGINEERING CORE**				EEL 4742C Embedded Systems			3		
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 2 FROM LIST)					
MAC 2313 Calculus with Analytic Geometry III	4	**		EEL 4140C Analog Filter Design			4		
MAP 2302 Ordinary Differential Equations I	3	**		EEL 4518 Satellite Communications			3		
CHS 1440 Principles of Chemistry (or CHM 2045C)	4	**		EEL 4781 Computer Communication Networks			3		
PHY 2048C General Physics Using Calculus I	GEP	**		EEE 5513 DSP Applications			3		
PHY 2049C General Physics Using Calculus II	4	**		EEE 5542 Random Processes I			3		
SUBTOTAL SEM HRS	19			EEE 5557 Introduction to Radar Systems			3		
				EEL 5432 Satellite Remote Sensing			3		
				EEL 5780 Wireless Networks			3		
				EEL 5820 Image Processing or its equivalent course from CS			3		
				EEL 5582 Fundamentals of Wireless Communication			3		
				EEL 5268 Communications and Networking for Smart Grid			3		
				REQUIRED					
				Technical Electives (EEE or EEL 4XXX or 5XXX)			10	~	
				EEL 4914 Senior Design I			3		
				EEL 4915L Senior Design II			3		
				SUBTOTAL SEM HRS			71		
				GPA Engr Option = (2.250 minimum)					
** A Grade of C (2.00) or higher required				ADVISOR COMMENTS:					
# Transfer students please see your faculty advisor before registering for these classes.				~BS-MS students should choose (3 SH) 5000 level courses as electives.					