

2017 ELECTRICAL ENGINEERING: Power and Renewable Energy 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 Intro to Engr Prof	1		#		
** Indicates minimum "C" or better grade				EGN 1007C Engr Concepts and Methods	1		#		
COMMUNICATION (9 SEM HRS)	SH	Grd	Trans Equiv	STA 3032 Probability & Statistics for Engrs	GEP				
ENC 1101	3	*		PHY 3101 Physics for Engr and Sci III	3				
ENC 1102	3	*		EEL 3926L Junior Design	1				
				EGN 3211 Engineering Analysis & Comp.	3		**		
SPC 1603	3			EEL 3004C Electrical Networks	3		**		
CULTURAL & HISTORICAL (9 SEM HRS)				EEL 3123C Networks and Systems	3		**		
Select 2: AMH 2010, AMH 2020, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WOH 2012, WOH 2022	6	*		EEE 3307C Electronics I	4				
Approved Cultural Foundations course:	3			EEE 3342C Digital Systems	3		**		
SOCIAL FOUNDATION - (6 SEM HRS)				EEL 3801C Computer Organization	4		**		
ANT 2000/ PSY 2012/ SYG 2000	3			EEL 3657 Linear Control Systems	3				
ECO 2013 <u>or</u> ECO 2023	3			JUNIOR LEVEL ELECTIVE COURSES (CHOOSE 2)			SH	Grd	Trans Equiv
SCIENCE - 6 SH				EEL 3470 Electromagnetic Fields	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 3552C Signal Analysis & Communications	4				
PHY 2048C Physics I for Engrs	4			EEE 3350 Semiconductor Devices I	3				
MATHEMATICAL - 6 SH				EEL 3290 Global Energy Issues	3				
MAC 2311 Calculus I	4	**		SENIOR LEVEL REQUIRED COURSES			SH	Grd	Trans Equiv
GPA Gen Ed Prog =	38			EEL 4216 Fund. Of Electric Power Systems	3				
				EEL 4742C Embedded Systems	3				
ENGINEERING CORE**	SH	Grd	Trans Equiv	RECOMMENDED SENIOR LEVEL ELECTIVE COURSES			SH	Grd	Trans Equiv
MAC 2311 Calculus I	GEP	**		(CHOOSE MINIMUM 3 FROM LIST)					
MAC 2312 Calculus II	4	**		EEL 4612C Robust Control	4				
MAC 2313 Calculus III	4	**		EEL 4750 Digital Signal Processing Fund.	3				
MAP 2302 Differential Equations	3	**		EEL 4294 Introduction to Smart Grids	3				
CHS 1440 Chem for Engrs (or CHM 2045C)	4	**		EEL 4205 Electric Machinery	3				
PHY 2048C Physics I for Engrs	GEP	**		EEL 5185 Systems Identification	3				
PHY 2049C Physics II for Engrs	4	**		EEL 5268 Communications and Networking for Smart Grid	3				
SUBTOTAL SEM HRS	19			EEL 5291 Distributed Control and Optimization for Smart Grid	3				
				EEL 5173 Linear Systems Theory	3				
				EEL 5XXX Advanced Power Systems Analysis	3				
				EEL 5245 Power Electronics I	3				
				REQUIRED					
				<i>Technical Electives (EEE or EEL 4XXX or 5XXX)</i>	15		~		
				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

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

ADVISOR COMMENTS:

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