2023 ELECTRICAL ENGINEERING: Communications and Signal Processing Track

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEGREE REQUIREMENT CHECKSHEET
UNIVERSITY OF CENTRAL FLORIDA

GENERAL EDUCATION PROGRAM			
* Indicates "C-" minimum required by the Gordon Rule			
** Indicates minimum "C" or better grade			
COMMUNICATION (9 SEM HRS)	*SH*	*Grd*	*Trans Equiv*
ENC 1101	3	*	
ENC 1102	3	*	
SPC 1603C	3		
CULTURAL & HISTORICAL (9 SEM HRS)			
Select 2: AMH 2010, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WOH 2012, WOH 2022	6	*	
Approved Cultural Foundations course:	3		
SOCIAL FOUNDATION - (6 SEM HRS)			
ANT 2000/ PSY 2012/ SYG 2000	3		
ECO 2013 or ECO 2023	3		
SCIENCE - 6 SH			
GEO 1200 or GEO 2370 (either GEO is preferred) or BSC 1050C or BSC 1005C or GLY 1030	3		
PHY 2048C General Physics Using Calculus I	4		
MATHEMATICAL - 6 SH			
MAC 2311C Calculus with Analytic Geometry I	4	**	
STA 3032 Probability & Statistics for Engineers	3		
GPA Gen Ed Prog =	36		
*ENGINEERING CORE***	*SH*	*Grd*	*Trans Equiv*
MAC 2311C Calculus with Analytic Geometry I	GEP	**	
MAC 2312 Calculus with Analytic Geometry II	4	**	
MAC 2313 Calculus with Analytic Geometry III	4	**	
MAP 2302 Ordinary Differential Equations I	3	**	
CHS 1440 Principles of Chemistry (or CHM 2045C)	4	**	
PHY 2048 & PHY 2048L General Physics Using Calculus I & Lab	GEP	**	
PHY 2049 & PHY 2049L General Physics Using Calculus II & Lab	4	**	
SUBTOTAL SEM HRS	19		
** A Grade of C (2.00) or higher required			
# Transfer students please see your faculty advisor before registering for these classes.			

LOWER AND JUNIOR LEVEL REQUIRED COURSES	*SH*	*Grd*	*Trans Equiv*
EGS 1006C Introduction to the Engineering Profession	1	#	
EGN 1007C Engineering Concepts and Methods	1	#	
STA 3032 Probability & Statistics for Engineers	GEP		
PHY 3101 General Physics Using Calculus III	3		
EEL 3926L Junior Design	1		
EGN 3211 Engineering Analysis & Computation	3	**	
EEL 3021 Introduction to Applied Randomness for Engineers	3		
EEL 3004C Linear Circuits I	3	**	
EEL 3123C Linear Circuits II	3	**	
EEE 3307C Electronics I	4		
EEE 3342C Digital Systems	3	**	
EEL 3801C Computer Organization	4	**	
EEL 3552C Signal Analysis & Analog Communication	4		
JUNIOR LEVEL ELECTIVE COURSES (CHOOSE 2)	*SH*	*Grd*	*Trans Equiv*
EEL 3470 Electromagnetic Fields	3		
EEL 3657 Linear Control Systems	3		
EEE 3350 Semiconductor Devices	3		
SENIOR LEVEL REQUIRED COURSES	*SH*	*Grd*	*Trans Equiv*
EEL 4750 Digital Signal Processing Fundamentals	3		
EEL 4515C Fundamentals of Digital Communication Systems	4		
EEL 4742C Embedded Systems	3		
RECOMMENDED SENIOR LEVEL ELECTIVE COURSES	*SH*	*Grd*	*Trans Equiv*
(CHOOSE MINIMUM 2 FROM LIST)			
EEL 4140C Analog Filter Design	4		
EEL 4518 Satellite Communications	3		
EEL 4781 Computer Communication Networks	3		
EEE 5513 DSP Applications	3		
EEE 5542 Random Processes I	3		
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)			
ADVISOR COMMENTS: ~BS-MS students should choose (3 SH) 5000 level courses as electives.			