

Bioengineering and Electrical Energy Systems

FIRST YEAR-FALL	HR	Notes	FIRST YEAR-SPRING	HR	Notes
CHEM 1310	4		ECE 2020	3	
CS 1301	3		ENGL 1102	3	
ECE 1100	1		MATH 1552	4	
ENGL 1101	3		PHYS 2211	4	
MATH 1551	2		History/Government Elective	3	5
MATH 1554	4				
TOTAL SEMESTER HOURS	17		TOTAL SEMESTER HOURS	17	

SECOND YEAR-FALL	HR	Notes	SECOND YEAR-SPRING	HR	Notes
ECE 2026	3		ECE 2031	2	
Economics/Social Science Elective	3		ECE 2035 or 2036	4	
Humanities Elective	3		ECE 2040	3	
MATH 2552	4		MATH 2551	4	
PHYS 2212	4		Science Elective	3	
TOTAL SEMESTER HOURS	17		TOTAL SEMESTER HOURS	16	

THIRD YEAR-FALL	HR	Notes	THIRD YEAR-SPRING	HR	Notes
ECE 3040	4		ECE 3005	1	
ECE 3043	2		Elective Hours	3	1
ECE 3025	3		ECE 3072	3	
Prob & Stat Elective	3		Pick 1 of Bioengineering Foundation	3	
APPH 1040 OR 1050	2		Social Science Elective	3	
Humanities Elective	3		Elective Hours	3	1
TOTAL SEMESTER HOURS	17		TOTAL SEMESTER HOURS	16	

FOURTH YEAR-FALL	HR	Notes	FOURTH YEAR-SPRING	HR	Notes
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Bioengineering Topics	3		ECE 3000/4000 Elective	3	
ECE 3300	3		ECE 3000/4000 Elective	3	
Pick 1 of Bioengineering Topics	3		Elective Hours	3	1
Elective Hours	2	1	Pick 1 of Electrical Energy Sys Topics	3	
Social Science Elective	3				
TOTAL SEMESTER HOURS	15		TOTAL SEMESTER HOURS	14	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
Total Hours for Degree	129	129

BIO + EES			
	Lec	Lab	Hours
Institute Core Hours+Prob Stat:	x	x	65
Common Core	x	x	26
Total Thread Hours:	x	x	24
Elective Hours (includes Senior Design Sequence)	x	x	14
Total Degree Hours			129

EE Common Core			
ECE 1100 - ECE Discovery Studio	1	0	1
ECE 2020 - Fundamentals of Digital Design	3	0	3
ECE 2026 -Intro Signal Processing	2	3	3
ECE 2031 - Digital Design Laboratory	1	3	2
ECE 2040 - Circuit Analysis	3	0	3
ECE 3005 - Professional Communications	1	0	1
ECE 3025 - Electromagnetics	3	0	3
ECE 3040 - Microelectronic Circuits	4	0	4
ECE 3043 - Microelectronics Lab	1	3	2
Choose 1			
ECE 2035 - Programming for Hardware/Software Systems	3	3	4
ECE 2036 - Engineering Software Design	3	3	4
Total	18	9	26

Bioengineering			
Pick 1 of Bioengineering Foundation	3	0	3
Pick 2 of Bioengineering Topics	3	0	3
ECE 3000/4000 Elective	3	0	3
Electrical Energy Systems			
ECE 3072 - Electrical Energy Systems	2	3	3
ECE 3300 - Electromech and Electromag Energy Conversion	3	0	3
Pick 1 of Electrical Energy Systems Topics	3	0	3
ECE 3000/4000 Elective	3	0	3
Total (See Notes 3 and 4)	x	x	21

Total Degree Hours:	x	x	129
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- (1) Elective hours depend on thread picks and Senior Design Option
- (2) See degree options for senior design
- (3) Thread hours may depend on thread picks
- (4) For shared thread courses, select an additional ECE 3000/4000 elective or pick
- (5) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000