

**Bioengineering and Sensing & Exploration**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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	
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
ECE 3040	4		ECE 3005	1	
ECE 3043	2		Elective Hours	3	1
ECE 3025	3		ECE 4390	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
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Bioengineering Topics	3		ECE 3000/4000 Elective	3	
Pick 1 of Sensing & Exploration Topics	3		ECE 3000/4000 Elective	3	
Pick 1 of Bioengineering Topics	3		Elective Hours	3	1
Elective Hours	2	1	Pick 1 of Sensing & Exploration Topics	3	
Social Science Elective	3				
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

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

<b>EE Common Core</b>			
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
<b>Choose 1</b>			
ECE 2035 - Programming for Hardware/Software Systems	3	3	4
ECE 2036 - Engineering Software Design	3	3	4
<b>Total</b>	<b>18</b>	<b>9</b>	<b>26</b>

<b>Bioengineering</b>			
<b>Pick 1 of Bioengineering Foundation (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 2 of Bioengineering Topics (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Sensing &amp; Exploration</b>			
Sensing & Exploration	3	0	3
<b>Pick 2 of Sensing &amp; Exploration Topics (*)</b>	<b>6</b>	<b>0</b>	<b>6</b>
<b>ECE 3000/4000 Elective</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>21</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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
- (\*) Pick 1 of Bioengineering Foundation cannot be a pick for Sensing; ECE4350, ECE4370 are shared picks (see Note 4)