

## Electrical Engineering Degree Plan (2024/25 catalog)

First Year			
<b>Fall</b>			
ENGR 101: Introduction to Engineering	3		
MATH 150: Calculus I	4		
COMP 110: Computational Problem Solving	3.5		
Core Curriculum	3		
Core Curriculum	3		
<b>Total Semester Units</b>		<b>16.5</b>	
<b>Spring</b>			
ENGR 102 or ENGR 103	3		
PHYS 270/270L: Mechanics & Lab	4		
MATH 151: Calculus II	4		
CHEM 151/L: General Chemistry I & Lab	4		
Core Curriculum	3		
<b>Total Semester Units</b>			<b>18</b>
Second Year			
<b>Fall</b>			
ENGR 102 or ENGR 103	3		
PHYS 271/271L: Intro to Elec. and Magnet. & Lab	4		
MATH 310: Applied Math for Sci and Engr I	3		
Core Curriculum	3		
Core Curriculum	3		
<b>Total Semester Units</b>		<b>16</b>	
<b>Spring</b>			
ELEC 201: Electrical Circuits	4		
MATH 250: Calculus III	4		
ISYE 330: Engineering Probability and Statistics	3		
MENG 210: Statics	3		
PHYS 272/MENG 260: Intro to Modern Physics	3		
<b>Total Semester Units</b>			<b>17</b>
Third Year			
<b>Fall</b>			
ELEC 301: Electronics I	4		
ELEC 340: Digital Design	4		
ELEC 311: Semiconductor Elec. Dev.	3		
MATH 311: Applied Math for Sci and Engr II	3		
Core Curriculum	3		
<b>Total Semester Units</b>		<b>17</b>	
<b>Spring</b>			
ELEC 302: Electronics II	4		
ELEC 310: Embedded Systems Design	4		
ELEC 350: Signals and Systems	3		
COMM 203: Public Speaking	3		
Core Curriculum	3		
<b>Total Semester Units</b>			<b>17</b>
Fourth Year			
<b>Fall</b>			
ELEC 320: Principles of Electrical Power	3		
ELEC 430: Applied Electromagnetics	4		
ELEC 470: Communication Princ. & Circuits	4		
ELEC 491: Electrical Eng. Design & Practice I	4		
<b>Total Semester Units</b>		<b>15</b>	
<b>Spring</b>			
ELEC 460: Control Systems Engineering	4		
ELEC 492: Electrical Eng. Design & Practice II	3		
ELEC Program Elective	3		
PHIL 342: Engineering Ethics	3		
Life Science Elective or Core Curriculum	3		
<b>Total Semester Units</b>			<b>16</b>
Final Semester			
<b>Fall</b>			
ELEC Program Elective	3		
Core Curriculum	3		
Core Curriculum	3		
Core Curriculum	3		
Core Curriculum	3		
<b>Total Semester Units</b>		<b>15</b>	
<b>Total ELEC Degree Units</b>			<b>147</b>