

**Bachelor of Science in Electrical Engineering (BSEE) Degree**  
**Department of Electrical and Computer Engineering**

All engineering & technical elective courses must be completed with a combined minimum GPA of 2.0  
**All courses being taken as General Education courses must earn a grade of C- or better to qualify.**  
 Course sequencing follows the academic year, and assumes beginning the program in the fall semester.  
 For more information visit the ECE Department website.

**Effective: Fall 2019**

P = Prerequisite, C = Co-requisite, DC = Design Content

1 <sup>st</sup> semester 15 credits	<b>MA 16500 (4)</b> P: MA 15400 or MA 15900 (C- or better), or placement	<b>CHM 11500 (4)</b> P: CHM 11100 or 1 yr. H.S. C: MA 15400	<b>ENGR 12700 (4)</b> C: MA 15400	<b>ENGL 13100 (3)</b> P: ENGL 12900 (C or better) or placement		
	Anly. Geometry & Calc. I <b>GenEd A3</b>	General Chemistry <b>GenEd B4</b>	Engr. Fundamentals I	Elem. Composition I <b>GenEd A1</b>		
2 <sup>nd</sup> semester 16 credits	<b>MA 16600 (4)</b> P: MA 16500 (C- or better)	<b>PHYS 15200 (5)</b> C: MA 16600	<b>ENGR 12800 (4)</b> P: ENGR 12700 C: MA 16500, ENGL 13100, or COM 11400 <b>DC</b>	<b>COM 11400 (3)</b> (C or better )		
	Anly. Geometry & Calc. II <b>GenEd A3</b>	Mechanics <b>GenEd B4</b>	Engr. Fundamentals II	Fundament. of Speech <b>GenEd A2</b>		
3 <sup>rd</sup> semester 19 credits	<b>MA 26100 (4)</b> P: MA 16600 (C- or better)	<b>MA 35100 (3)</b> P: MA 16600 (C- or better)	<b>PHYS 25100 (5)</b> P: PHYS 15200 (C or better) C: MA 26100	<b>ECE 20100 (3)</b> C: MA 26100	<b>ECE 22900 (4)</b> P: ENGR 12800	
	Multivariate Calculus	Elem. Linear Algebra	Heat Electricity & Optics <b>GenEd B7</b>	Linear Circuit Anly. I	C/C++ Prog for ECE.	
4 <sup>th</sup> semester 14 credits	<b>MA 36300 (3)</b> P: MA 26100 or MA 26300 (C- or better) C: MA 35100 (C- or better) or current enrollment in MA 35100	<b>ECE 20200 (3)</b> P: ECE 20100 C: MA 36300 <b>DC</b>	<b>ECE 25500 (3)</b> P: ECE 20100 <b>DC</b>	<b>ECE 27000 (4)</b> C: ENGR 12800 <b>DC</b>	<b>ECE 20700 (1)</b> P: ECE 20100 <b>DC</b>	
	Differential Equations	Linear Circuit Anly. II	Intr. Electron Anly. Des.	Intro. Digitl Sys. Desgn.	Elect. Measure. Tech.	
5 <sup>th</sup> semester 12 credits	<b>ECE 20800 (1)</b> P: ECE 25500, ECE 20700 <b>DC</b>	<b>ECE 30100 (3)</b> P: ECE 20200	<b>Technical Elective (3)</b>	<b>Technical Elective (3)</b>	<b>ME 25300 (2)</b> P: MA 26100, PHYS 15200	
	Electron. Dev. Des. Lab	Signals & Systems	<b>Group I.</b>	<b>Group II</b>	Statics & Dynamics	
6 <sup>th</sup> semester 16 credits	<b>ECE 30200 (3)</b> P: MA 36300 C: ECE 30100	<b>ECE 31100 (3)</b> or <b>PHYS 31200 (3)</b> P: MA 36300, PHYS 25100	<b>ECE 33300 (3)</b> P: ECE 30100, ME 25300 <b>DC</b>	<b>ECE 36200 (4)</b> P: ECE 27000, ECE 20700, ECE 22900 <b>DC</b>	<b>General Education Elective (3)</b>	
	Probabilistic Methods	Elec. & Magnetic Fields	Automatic Control Sys.	Micropro. Sys & Infrac.	<b>GenEd B5</b>	
7 <sup>th</sup> semester 12 credits	<b>ECE 40500 (3)</b> Senior standing in the program and permission of the senior design project advisor <b>DC</b>	<b>ECE 42800 (3)</b> P: ECE 30100, ECE 30200 <b>DC</b>	<b>ECE 43600 (3)</b> P: ECE 30100 <b>DC</b>	<b>Technical Elective (3)</b> <b>DC</b>		
	Sr. Engr. Design I <b>GenEd C8</b>	Modern Commun. Syst.	Digital Signal Process.	<b>Group I</b>		
8 <sup>th</sup> semester 16 credits	<b>ECE 40600 (3)</b> P: ECE 40500 <b>DC</b>	<b>Technical Elective (3)</b> <b>DC</b>	<b>Technical Elective (3)</b>	<b>General Education Elective (3)</b>	<b>ECE 46000 (4)</b> P: ECE 20200, ECE 25500 <b>DC</b>	
	Sr. Engr. Design II	<b>Group I</b>	<b>Group II</b>	<b>GenEd B6</b>	Power Electronics	