

# Electrical & Computer Engineering

## B.S. in Electrical and Computer Engineering - Curriculum Map 2016-2017 Catalog

<b>Freshman</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
CH 103 General Chemistry I (General Education Lab Science)	4 EG 110 Introduction to Engineering II	3
EG 109 Introduction to Engineering I	3 EE 200 Engineering Programming	3
EN 101 Composition and Literature I	3 EN 102 Composition and Literature II	3
MA 121 Calculus I (General Education Math)	4 General Education History / Literature / Arts & Humanities / Social Science	3
	MA 122 Calculus II (General Education Math)	4
<b>Semester Total Credits</b>	<b>14 Semester Total Credits</b>	<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
EE 215 Fundamentals of Digital Design	4 EE 356 Electrical Circuits II	3
EE 204 Electrical Circuits I	3 EG 206 Thermodynamics I	3
General Education History / Literature / Arts & Humanities / Social Science	3 MA 224 Differential Equations	4
MA 223 Calculus III	4 PS 212 University Physics II (General Education Lab Science)	4
PS 211 University Physics I (General Education Lab Science)	4	
<b>Semester Total Credits</b>	<b>18 Semester Total Credits</b>	<b>14</b>
<b>Junior</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
EE 321 Embedded Systems	4 EE 303 Electromagnetic Field Theory I	3
EE 350 Linear Systems	3 EE 323 Computer Architecture	3
EE 357 Electronics I	3 EE 366 Electronics II	4
EE 359 Electrical Engineering Laboratory	1 EE 373 Electrical Energy Conversion	4
MA 306 Discrete Mathematics	3 EN 204 Professional and Technical Writing	3
General Education History / Literature / Arts & Humanities / Social Science	3	
<b>Semester Total Credits</b>	<b>17 Semester Total Credits</b>	<b>17</b>
<b>Senior</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
EE 491 Electrical System Design I (Capstone)	3 EE 411 Infrastructure Control Systems	4
EE 459 Power Systems Analysis	3 EE 478 Control Systems	3
EE 463 Communication Systems	4 EE 486 Digital Signal Processing	3
EG 450 Professional Issues (General Education Ethics)	3 EE 487 Digital Signal Processing Lab	1
MA 311 Statistical Methodology	3 EE 494 Electrical System Design II	3
	General Education History / Literature / Arts & Humanities / Social Science	3
<b>Semester Total Credits</b>	<b>16 Semester Total Credits</b>	<b>17</b>
<b>Total Credits For This Major: 129</b>		

An undergraduate student, who has completed all degree requirements except for attaining a 2.00 average, must take at least 50 percent of all subsequent course work in technical material (subject to approval by the Director of the David Crawford School of Engineering).