Electrical & Computer Engineering

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

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Freshman			
Fall	**Cr.**	**Spring**	**Cr.**
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
Semester Total Credits	14	Semester Total Credits	16
Sophomore			
Fall	**Cr.**	**Spring**	**Cr.**
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	4
PS 211 University Physics I (General Education Lab Science)	4		
Semester Total Credits	18	Semester Total Credits	14
Junior			
Fall	**Cr.**	**Spring**	**Cr.**
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		
Semester Total Credits	17	Semester Total Credits	17
Senior			
Fall	**Cr.**	**Spring**	**Cr.**
EE 491 Electrical System Design I (Capstone)	3	EE 411 Infrastructure Control Systems	4
EE 459 Electric Power Systems	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
Semester Total Credits	16	Semester Total Credits	17
Total Credits For This Major: 129			

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).