

**FONTBONNE-SIUE**  
**Dual Degree ELECTRICAL ENGINEERING**

**FONTBONNE - YEAR I (Fall Odd / Spring Even)**

ENG 101 Composition I (ENG 101)	3	ENG 102 Composition II (ENG 102)	3
CIS 160 Computer Science I	4	CIS 160 Computer Science II	4
INT 105 Culture and the Common Good	3	MTH 115 Introduction to Statistics	3
LIB 199 Information Navigation & Evaluation	1	MTH 150 Calculus w/ Analytic Geometry I (MATH 150)	4
MTH 120 Discrete Mathematics	3	COM 102 Public Speaking (ACS 103)	3
CHM 108 General Chemistry I w/lab (CHEM 121A/125A)	4	GOV 101 US & Missouri Constitution	1
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>18</b>

**FONTBONNE - YEAR II (Fall Even / Spring Odd)**

CIS 210 Object-Oriented Programming	4	MTH 250 Calculus w/ Analytic Geometry III (MATH 250)	4
MTH 151 Calculus w/ Analytic Geometry I (MATH 152)	4	MTH 288 Portfolio A	0
MTH 315 Advanced Statistics (STAT 380)	3	MTH 300 Modeling & Numerical Approximations	3
PHY 218 Engineering Physics I w/lab (PHYS 141/151L)	4	MTH 310 Differential Equations (MATH 305)	3
ECN 210 Principles of Macroeconomics (ECON 111) or GER	3	PHY 220 Engineering Physics II w/lab (PHYS 142/152L)	4
		GER*	3
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>17</b>

**FONTBONNE - YEAR III (Fall Odd / Spring Even)**

BIO 203 Science & Society (MCII & Intensive Writing)	3	MTH 430 Algebraic Structures	3
MTH 200 Linear Algebra	3	MTH 498 Senior Portfolio	1
MTH 316 Non-Parametric Statistics	3	MTH 499 Senior Synthesis	3
ART 155 Art Appreciation (ART 111) (BFPA)	3	BIO 108 Intro to Life Science w/Lab (BLS)	3
		GER*	3
GER*	3	GER*	3
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>16</b>

\*GERs Required: PHL 260+, Religion and HST 103/104/or107

**Summer coursework or possible additional year at SIUE**

IE 106 – Engineering Problem Solving	3	ECE 211 Circuit Analysis II	3
ECE 210 Circuit Analysis I	3	ECE 282 Digital Systems Design	4

Admission to upper-division courses requires satisfactory completion of lower-division core courses (*see the SIUE Undergraduate catalog for specific requirements*). An “APPLICATION FOR ADMISSION TO UPPER-DIVISION ENGINEERING COURSES” form must also be completed and approved. The form is available online at: <http://www.siu.edu/engineering/student-services> and in the Engineering Student Services Office.

**SIUE - YEAR IV**

FALL		SPRING	
ECE 326 – Electronic Circuits I	4	ECE 340 – Engineering Electromagnetics	3
ECE 351 – Signals and Systems	3	ECE 365 – Control Systems	3
ECE 352 – Stochastic Processes	3	ECE 375 – Introduction to Communications	3
MATH 355 – Engineering Mathematics	5	NON-ECE TECH ELECTIVE (CE 240, MATH 321, ME 310, PHYS 303)	3
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>12</b>

**SIUE - YEAR V**

FALL		SPRING	
ECE 341 – Electromechanical Energy Conv.	4	ECE 405 – ECE Design Laboratory	3
ECE 404 – ECE Design	3	ECE Elective III	3
ECE Elective I	3	ECE Elective IV	3
ECE Elective II	3	IE 345 – Engineering Economic Analysis	3
PHIL 323 – Engr. Ethics and Professionalism (BHUM)	3	Interdisciplinary Studies (IS) (EGC) (EUSC)	3
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MTH 151 Calculus w/ Analytic Geometry I (MATH 152)	4	MTH 288 Portfolio A	0
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ECN 210 Principles of Macroeconomics(ECON 111) or GER	3	BIO 108 Intro to Life Science w/Lab (BLS)	3
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