

**Pathway - Civil Engineering**

**Rend Lake College  
Associate Engineering Science Degree**

**Fall Year 1**

RLC Course		Hours
ENGL 1101	Rhetoric and Composition I	3
CHE 1103	Inorganic Chemistry	5
MATH 1121	Calculus and Analytic Geometry I	5
Fine Arts	ART 1101, MUSI 1100 or THEA 1106	3
ORIE 1101	Orientation	1.5
<b>Total</b>		<b>17.5</b>

**Spring Year 1**

RLC Course		Hours
ENGL 1102	Rhetoric and Composition I	3
PHY 1103	University Physics I	5
MATH 2122	Calculus and Analytic Geometry II	5
ENGG 1101	Engineering Graphics	4
<b>Total</b>		<b>17</b>

**Fall Year 2**

RLC Course		Hours
CSCI 1103	Introduction to Programming	3
PHY 1104	University Physics II	5
PHY 2101	Statics	3
MATH 2123	Calculus and Analytic Geometry III	4
ECON 2101	Principles of Economics I	3
<b>Total</b>		<b>18</b>

**Spring Year 2**

RLC Course		Hours
Social Science	HIST 2101, HIST 2102 or SOCI 1101	3
PHY 2102	Dynamics	3
MATH 2130	Differential Equations	3
BIO 1100 <sup>2</sup>	Biology for Non-Majors	4
COMM 1101	Principles of Effective Speaking	3
<b>Total</b>		<b>16</b>

**Associate in Engineering Degree Total 68.5**

<sup>1</sup>Non-credit experiences available. See advisor.

<sup>2</sup>Preferred

\*\* Students must complete 50% or more of SIUE degree requirements at SIUE (120 hours required for graduation).

**Southern Illinois University Edwardsville  
Bachelor Degree**

**Summer Year 3**

SIUE Course		Hours
CE 242	Mechanics of Solids	3
<b>Total</b>		<b>3</b>

**Fall Year 3**

SIUE Course		Hours
CE 206	Civil Engineering Surveying	2
CE 315	Fluid Mechanics	3
CE 342	Structural Engineering	3
STAT 380	Statistics for Application	3
EH <sup>1</sup>	Health Experience	2
IE 106	Engineering Problem Solving	3
<b>Total</b>		<b>16</b>

**Spring Year 3**

SIUE Course		Hours
CE 330	Engineering Materials	2
CE 330L	Engineering Materials Lab	1
CE 343	Structural Engineering II	3
CE 376	Transportation Engineering	3
CE 380	Environmental Engineering	3
PHIL 323	Engr. Ethics & Professionalism	3
<b>Total</b>		<b>15</b>

**Fall Year 4**

SIUE Course		Hours
CE 354	Geotechnical Engineering	3
CE 354L	Geotechnical Engineering Lab	1
CE 460	Municipal Infrastructure Design	3
CE 416	Hydrology (Fall)	3
CE 459/CE 455	Soil Improv. (Fall)/Foundations (Sp)	3
CE XXX	CE Elective	3
CE XXX	CE Selective	3
	Prep. for Fundamental of Engr. Exam	0
<b>Total</b>		<b>19</b>

**Spring Year 4**

SIUE Course		Hours
CE 415L	Applied Fluids Lab	1
CE 493	Engineering Design	3
CE XXX	CE Elective	3
CE XXX	CE Elective	3
IS/EGC	Interdisciplinary Course	3
IE 345	Engineering Economic Analysis	3
<b>Total</b>		<b>16</b>

**Bachelor of Science Total 137.5**