

**Pathway - Civil Engineering**

**Southwestern Illinois College  
Associate in Engineering Degree  
Fall Year 1**

SWIC Course	Hours
ENG 101 Rhetoric and Composition I	3
CHEM 105 General Chemistry I	5
ENGR 103 Engineering Graphics	4
MATH 203 Analytical Geom & Calc I	5
<b>Total</b>	<b>17</b>

**Spring Year 1**

SWIC Course	Hours
SOC 230 <sup>1</sup> Race and Ethnicity in U.S. (ERGU)	3
MATH 204 Analytical Geom & Calc II	5
PHYS 204 Physics- Mechanics	4
ENG 102 Rhetoric and Composition II	3
HES 151 <sup>2</sup> Personal Health & Wellness	2
<b>Total</b>	<b>17</b>

**Fall Year 2**

SWIC Course	Hours
PHYS 205 Physics-Heat/EL/Mag	4
MATH 205 Analytical Geom & Calc III	4
ENGR 263 Analytical Mech-Statics	3
IAI Fine Arts ART 103 or MUS 110	3
ENGR 251 Surveying	3
<b>Total</b>	<b>17</b>

**Spring Year 2**

SWIC Course	Hours
MATH 290 Differential Equations	3
BIOL 100/101 General Biology/Prin. Of Biol I	4
COMM 155 Interpersonal Comm (ERGU or EREG)	3
ENGR 264 Analytical Mech-Dynamics	3
ECON 201 Macro-Economics	3
<b>Total</b>	<b>16</b>

**Summer Year 2**

SWIC Course	Hours
ENGR 275 Mechanics of Solids	3
<b>Total</b>	<b>3</b>

**Associate in Engineering Science Total 70**

<sup>1</sup>SOC 230 satisfies both the human relations and ERGU requirements

<sup>2</sup>Students may also take HES 152 or HES 130 and 131.

\*Students must complete 50% or more of degree requirements

**Southern Illinois University Edwardsville  
Bachelor of Science Degree**

SIUE Course	Summer Year 3	Hours
<sup>1</sup> CE 242	Mechanics of Solids	3
<b>Total</b>		<b>3</b>

**Fall Year 3**

SIUE Course	Hours
CE 206 Civil Engineering Surveying	3
CE 315 Fluid Mechanics	3
CE 342 Structural Engineering	3
CE 330 Engineering Materials	2
CE 330L Engineering Materials Lab	1
CE 354 Geotechnical Engineering	3
CE 354L Geotechnical Engineering Lab	1
<b>Total</b>	<b>16</b>

**Spring Year 3**

SIUE Course	Hours
CE 343 Structural Engineering II	3
EH Experience Health	1
CE 376 Transportation Engineering	3
CE 380 Environmental Engineering	3
STAT 380 Stats for Application	3
<b>Total</b>	<b>13</b>

**Fall Year 4**

SIUE Course	Hours
<sup>3</sup> CE 416/455/459 Hydrology/Foundations/Soil Imprv	3
CE 460 Municipal Infrastructure Design	3
CE XXX CE Elective I	3
PHIL 323 Engineering Ethics	3
CE XXX CE Selective	3
FE Exam Prep Prep for Fund. of Engr Exam	0
ERGU EXP- US Race Gender and Equity	3
<b>Total</b>	<b>18</b>

**Spring Year 4**

SIUE Course	Hours
CE 415L Applied Fluids Lab	1
CE 493 Engineering Design	3
CE XXX Elective II	3
CE XXX Elective III	3
IE 345 Engineering Economics Analysis	3
IS/EREG IS/EREG	3
<b>Total</b>	<b>16</b>

**Bachelor of Science Total 130**

<sup>3</sup>Students need to select ONE of the three courses.

## Pathway - Civil Engineering

NOTE: Students must apply for admission to upper-division classes before starting the junior year at SIUE. The form for 'APPLICATION FOR ADMISSION TO UPPER-DIVISION' must be submitted by the deadline to the academic advisor in the School of Engineering at SIUE.

Students must earn 60 hours from a senior institution for graduation requirements. If students take all SIUE junior and senior level courses, stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule above may jeopardize this requirement.

\*A course that satisfies both the ERGU and EREG requirement will only be counted as one and not both.

**School of Engineering Transfer Credit Advisory Note:** *The University may accept transfer "D" grades; however, in the School of Engineering, a grade of C or better is required in all chemistry, computer science, mathematics, physics, and engineering courses applied to major or minor requirements. A course that transfers in as 1xx, 2xx, 3xx or TRF 1xx; TRF 2xx; TRF 3xx may require a course description and/or syllabus for further evaluation.*