

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

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
Total		17

Spring Year 1		
SWIC Course		Hours
IAI Social Science	Human Relations S.S (ERGU)	3
MATH 204	Analytical Geom & Calc II	5
PHYS 204	Physics- Mechanics	4
ENG 102	Rhetoric and Composition II	3
HES 151 ²	Personal Health & Wellness	2
Total		17

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
Total		17

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
Total		16

Summer Year 2		
SWIC Course		Hours
ENGR 275	Mechanics of Solids	3
Total		3

Associate in Engineering Science Total 70

²Students 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		Hours
¹ CE 242	Mechanics of Solids	3
Total		3

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
Total		16

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
Total		13

Fall Year 4		
SIUE Course		Hours
³ 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
Total		18

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
Total		16

Bachelor of Science Total 130

³Students need to select ONE of the three courses.

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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.*