

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 Fine Arts ART 103 or MUS 110	3
MATH 204 Analytical Geom & Calc II	5
PHYS 204 Physics- Mechanics	4
ENG 102 Rhetoric and Composition II	3
HES 151 ¹ 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 SS ³ IAI Human Relations Social Science	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 ² Interpersonal Communications	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

¹Students may also take HES 152 or HES 130 and 131.

²Students may substitute with COMM 151.

³Students should follow Civil Engineering specialty curriculum at SWIC.

Hum/SS is within the AES at SWIC but not the BS at SIUE.

⁴IE 106 may no longer be required if AES is earned.

More details coming.

Southern Illinois University Edwardsville Bachelor of Science Degree Fall Year 3

SIUE Course	Hours
CE 315 Fluid Mechanics	3
CE 342 Structural Engineering	3
CE 330 Engineering Materials	2
CE 330L Engineering Materials Lab	1
CS 145 Intro Computing for Engrs	3
IE 106 ⁴ Engineering Problem Solving	3
Total	15

Spring Year 3

SIUE Course	Hours
CE 343 Structural Engineering II	3
CE 354 Geotechnical Engineering	3
CE 354L Geotechnical Engineering Lab	1
CE 376 Transportation Engineering	3
CE 380 Environmental Engineering	3
STAT 380 Stats for Application	3
Total	16

Fall Year 4

SIUE Course	Hours
CE 416/455/459 Hydrology/Foundations/Soil Improvement	3
CE 460 Municipal Infrastructure Design	3
CE XXX CE Elective I	3
CE XXX CE Elective II	3
PHIL 323 Engineering Ethics	3
FE Exam Prep Prep for Fund. of Engr Exam	0
Total	15

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	3
IS Interdisciplinary Studies	3
Total	16

Bachelor of Science Total 132

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

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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.

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.*