

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
Total	17.5

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
Total	17

Fall Year 2

RLC Course	Hours
CSCI 1104 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
Total	18

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 ² Biology for Non-Majors	4
COMM 1101 Principles of Effective Speaking	3
Total	16

Associate in Engineering Degree Total 68.5

¹Non-credit experiences available. See advisor.

²Preferred

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

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

Summer Year 3

SIUE Course	Hours
CE 242 Mechanics of Solids	3
Total	3

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 ¹ Health Experience	2
IE 106 Engineering Problem Solving	3
Total	16

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
Total	15

Fall Year 4

SIUE Course	Hours
CE 354 Geotechnical Engineering	3
CE 354L Geotechnical Engineering Lab	1
CE 460 Municipal Infrastructure Design	3
CE 416/459/455 Hydrology/Soil Improv/Foundations	3
CE XXX CE Elective	3
CE XXX CE Selective	3
XXX Prep. for Fundamental of Engr. Exam	0
Total	16

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
Total	16

Bachelor of Science Total 134.5

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NOTE: Students must apply for admission to upper-division classes before starting the junior year at SIUE.

The form "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 senior level courses, as shown above, at SIUE, they will meet this requirement. Please note: deviating from the planned curriculum 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 the major or minor requirements. A course that transfers in as 1xx, 2xx, 3xx, or TRF 1xx, 2xx, 3xx may require a course description and/or course syllabus for further evaluation.