

SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Civil Engineering Pathway

Rend Lake College Associate in 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 ¹	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 II	3
PHY 1103	University Physics I	5
MATH 2122	Calculus and Analytic Geometry II	5
HEA 1101	Health Education	2
ENGG 1101	Engineering Graphics	4
Total		19

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 ¹	HIST 2101, HIST 2102 or SOCI 1101	3
PHY 2102	Dynamics	3
MATH 2130	Differential Equations	3
IAI LS	IAI Life Science	3
COMM 1101/1104	Prin. Effective Speaking/Interpersonal Corr	3
Total		15

Associate in Engineering Science Total 69.5

¹RLC requires a Multiculturalism course. Consult RLC advisor.

*Students must complete 50% or more of SIUE degree requirements at SIUE.

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	3
CE 315	Fluid Mechanics	3
CE 342	Structural Engineering	3
CE 330	Engineering Materials	2
CE 330L	Engineering Materials Lab	1
Total		12

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	Statistics for Application	3
Total		16

Fall Year 4

SIUE Course		Hours
CE 416/455/459	Eng. Hydro./Found Design/Soil Imp.	3
CE 460	Municipal Infrastructure Design	3
CE XXX	CE Elective I	3
CE XXX	CE Selective Course	3
PHIL 323	Engr. Ethics & Professionalism	3
FE Exam Prep	Prep. for Fundamental 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	CE Elective II	3
CE XXX	CE Elective III	3
IE 345	Engineering Economic Analysis	3
IS/ERGU	Interdisciplinary Course	3
Total		16

Bachelor of Science Total 131.5

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EDWARDSVILLE**

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School of Engineering Transfer Credit Advisory Notes:

NOTE: Student must apply for admission to upper-division classes before starting their 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, as stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule above may jeopardize this requirement.

SIUE 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 as 1XX, 2XX, 3XX or TRF 1XX, TRF 2XX, TRF 3XX may require a course description and/or syllabus for further evaluation.

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

Interdisciplinary Studies (IS) Courses must be taken at the junior/senior level class standing. This requirement is not waived with completion of transfer associate degree or IAI-GECC. It is recommended that students choose a course to meet this general education requirement AND Global Culture Race and Equity Experience (EREG). Please see the SIUE advisor for a current list of course options

Students must select a life science course other than physics and chemistry. Department approved courses include:

ENSC 340, GEOG 202, BIOL 111, BIOL 140, BIOL 150, BIOL 151, BIOL 203, BIOL 204, BIOL 205, BIOL 220, BIOL 240A, BIOL 240E