

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Pathway - Civil Engineering

**Southwestern Illinois College
Associate in Engineering Science Degree**

Fall Year 1

SWIC Course		Hours
ENG 101	Rhetoric and Composition I	3
MATH 203	Analytic Geometry & Calculus I	5
CHEM 105	General Chemistry I	5
ENGR 103	Engineering Graphics	4
Total		17

Spring Year 1

SWIC Course		Hours
ENG 102	Rhetoric and Composition II	3
MATH 204	Analytic Geometry & Calculus II	5
PHYS 204	Physics- Mechanics	4
COMM 155	Interpersonal Comm (ERGU or EREG)*	3
IAI Social Science	SOC 230 recommended (ERGU)	3
Total		18

Fall Year 2

SWIC Course		Hours
MATH 205	Analytic Geometry & Calculus III	4
MATH 210	Computer Programming for Engineers	3
PHYS 205	Physics-Heat, Elec, & Magnetism	4
ENGR 263	Analytical Mechanics-Statics	3
ECON 201	Principles of Macroeconomics	3
Total		17

Spring Year 2

SWIC Course		Hours
MATH 290	Differential Equations	3
ENGR 264	Analytical Mechanics - Dynamics	3
ENGR 275	Mechanics of Solids	3
ENGR 251	Surveying Fundamentals	3
BIOL 100/101	General Biology/Principles of Biology I	4
Total		16

Associate in Engineering Science Degree Total 68

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

Fall Year 3

SIUE Course		Hours
STAT 380	Stats for Application	3
CE 315	Fluid Mechanics	3
CE 342	Structural Engineering I	3
CE 354	Geotechnical Engineering	3
CE 354L	Geotechnical Engineering Lab	1
EH	Health Experience	2
Total		15

Spring Year 3

SIUE Course		Hours
CE 343	Structural Engineering II	3
CE 330	Engineering Materials	2
CE 330L	Engineering Materials Lab	1
CE 380	Environmental Engineering	3
BFPA	Breadth Fine & Performing Arts	3
PHIL 323	Engineering, Ethics & Professionalism	3
Total		15

Fall Year 4

SIUE Course		Hours
CE 376	Transportation Engineering	3
CE 416/455/459 ¹	Hydrology/Foundations/Soil Improvement	3
CE 460	Municipal Infrastructure Design	3
CE XXX	CE Elective I	3
CE XXX	CE Selective	3
FE Exam Prep	Prep for Fundamental of Engineering Exam	0
Total		15

Spring Year 4

SIUE Course		Hours
CE 415L	Applied Fluids Mechanics Lab	1
CE 493	Engineering Design	3
CE XXX	Elective II	3
CE XXX	Elective III	3
IE 345	Engineering Economics Analysis	3
IS	IS (EREG/ERGU - if needed)	3
Total		16

Bachelor of Science Degree Total 129

*Students should follow AES subplan. Consult SWIC Advisor or Program Coordinator.

¹Students need to select ONE of the three courses.

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Pathway - Civil Engineering

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 Cultures, Race, and Equity Education Experience (EREG) or US Race, Gender, and Equity Experience (ERGU). 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 240B.