

Pathway - Civil Engineering

**Lewis and Clark Community College
Associate Degree AES**

Fall Year 1

LCCC Course		Hours
ENGL 131	First Year English I	3
CHEM 141	General Chemistry I	5
CHEM 121	Recitation	1
SPCH 145	Public & Private Communication	3
MATH 171	Calculus and Analytic Geo	5
Total		17

Spring Year 1

LCCC Course		Hours
ENGL 132	First Year English II	3
MATH 172	Calculus and Analytic Geo II	5
DRFT 131/140	Gen. or Computer Drafting	4
PHYS 141	General Physics I	5
Total		17

Fall Year 2

LCCC Course		Hours
PHYS 241	Statics	3
IAI Life Science	Life Science	3
MATH 271	Calculus and Analytic Geo III	4
PHYS 142	General Physics II	5
Total		15

Spring Year 2

LCCC Course		Hours
MATH 272	Differential Equations	3
PHYS 242	Dynamics	3
IAI Fine Arts	IAI Fine Arts	3
ECON 151	Macroeconomics	3
CIS 210 or CIS 235	Java Program or C++ Language	3
Total		15

Associate in Engineering Total 64

¹Students may take PHYS 245 at LCCC in the summer if offered. If 245 is not offered, students will take CE 242 in the summer at SIUE.

² IE 106 may no longer be required if AES is earned.

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

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

SIUE Course	Summer Year 3	Hours
¹ CE 242	Mechanics of Solids	3
Total		3

Fall Year 3

SIUE Course	Hours	
CE 206	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
² IE 106	² Engineering Problem Solving	3
EH	Experience Health	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	Eng. Hyd.Foun. Des./ Soil Imp. Meth.	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
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/EGC	Interdisciplinary Studies	3
Total		16

Bachelor of Science Total 130

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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.*