

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Pathway - Computer 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
PHYS 141	General Physics I	5
IAI Fine Art	IAI Fine Art	3
Total		16

Fall Year 2

LCCC Course		Hours
MATH 271	Calculus and Analytic Geo III	4
PHYS 142	General Physics II	5
ECON 151	Macroeconomics	3
¹ AI Life Science	Life Science	3
Total		15

Spring Year 2

LCCC Course		Hours
PHYS 210	Circuit Analysis	3
MATH 272	Differential Equations	3
CIS 210	Java Programing	3
¹ ELEC	Elective	3
Total		12

Associate in Engineering Total 60

¹ Students please consult with LCCC/Pathways advisor for courses that can be used for Health requirement or Life Science.

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

Summer Year 3

SIUE Course		Hours
ECE 211	Circuit Analysis II	4
CS 150	Intro to Computing II	3
Total		7

Fall Year 3

SIUE Course		Hours
ECE 282	Digital Systems Design	4
ECE 351	Signals and Systems	3
ECE 352	Stochastic Processes	3
ECE 326	Electronic Circuits I	3
Total		13

Spring Year 3

SIUE Course		Hours
MATH 224	Discrete Math	3
ECE 483	Adv. Digital Systems Engr.	3
ECE 381	Microcontrollers	3
CS 286	Intro to Computer Org.	3
ECE/CS XXX	Elective I	3
Total		15

Fall Year 4

SIUE Course		Hours
IS/EREG	IS/EREG	3
CS 314	Operating Systems	3
ECE 404	ECE Design	3
ECE/CS XXX	Elective II	3
PHIL 323	Engineering Ethics	3
Total		15

Spring Year 4

SIUE Course		Hours
ECE 405	ECE Design Lab	3
ERGU	EXP- US Race Gender and Equity	3
ECE/CS XXX	Elective III	3
IE 345	Engineering Economics	3
CS 340	Algorithms Data Structures	3
BICS	Breath Info. Comm. In Soc.	3
Total		18

Bachelor of Science Total 128

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

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Pathway - Computer 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 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 240B.