

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Pathway - Computer Engineering

**Lincoln Land Community College
Associate in Science Degree**

Fall Year 1

LLCC Course		Hours
EGL 101	Composition I	3
CHE 101	General Chemistry I	4
ECO 132	Principles of Economics II (Macro)	3
MAT 131	Calculus & Analytic Geometry I	5
IAI Fine Arts	IAI Fine Arts	3
Total		18

Spring Year 1

LLCC Course		Hours
EGL 102	Composition II	3
CMN 101	Public Speaking Fundamentals	3
MAT 132	Calculus & Analytic Geom II	5
PHY 201	Physics I	4
Total		15

Fall Year 2

LLCC Course		Hours
PHY 202	Physics II	4
MAT 233	Calculus & Analytic Geom III	4
CSC 170 ¹	Computer Science I	3
IAI HUMN	IAI Humanities	3
IAI S/B Science	IAI Social Behavioral Science	3
Total		17

Spring Year 2

LLCC Course		Hours
CSC 270	Computer Science II	3
MAT 220	Discrete Structures	3
MAT 235	Differential Equations	4
BIO 101/111	Gen. Biology/Prin. of Biology	4
ENG 270	Circuit Analysis	3
Total		17

Associate in Science Total **67**

Accepted Hours for Bachelor degree **60**

¹See LLCC success coach in first semester to determine proper sequencing of prerequisites required for CSC 170.

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

Summer Year 3

SIUE Course		Hours
ECE 211	Circuit Analysis II	4
Total		4

Fall Year 3

SIUE Course		Hours
ECE 282	Digital System Designs	4
ECE 326	Electronic Circuits I	4
ECE 352	Engineering Probability and Statistics	3
CS 286	Intro to Comp Org & Architecture	3
Total		14

Spring Year 3

SIUE Course		Hours
ECE 351	Signals and Systems	3
ECE 381	Microcontrollers	3
ECE 483	Advanced Digital System Engineering	3
ECE/CS XXX	Elective I	3
Total		12

Fall Year 4

SIUE Course		Hours
CS 314	Operating Systems	3
ECE 404	ECE Senior Design I	3
ECE/CS XXX	Elective II	3
BICS	Breadth Info. Comm. in Soc.	3
PHIL 323	Engineering Ethics	3
Total		15

Spring Year 4

SIUE Course		Hours
ECE 405	ECE Senior Design II	3
ECE/CS XXX	Elective III	3
IE 345	Engineering Economics Analysis	3
CS 340	Algorithms and Data Structures	3
IS	Interdisciplinary Studies	3
Total		15

Bachelor of Science Degree Total **127**

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

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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 240B.