

Pathway - Computer Engineering

**Rend Lake College
Associate 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	5
Fine Arts	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
ENGG 1101	Graphics	4
Total		17

Fall Year 2

RLC Course		Hours
CSCI 1104	Introduction to Programming	3
PHY 1104	University Physics II	5
HEA 1101	Health Education	2
MATH 2123	Calculus and Analytic Geometry III	4
ECON 2101	Principles of Economics I	3
Total		17

Spring Year 2

RLC Course		Hours
Social Science	HIST 2101, HIST 2102 or SOCI 1101	3
PHY 2121	Electrical Engineering Circuits	4
MATH 2130	Differential Equations	3
COMM 1101	Principles of Effective Speaking	3
BIO 1100	Biology for Non-Majors	3
Total		16

Associate in Engineering Total 67.5

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

¹Non-credit experiences available. See advisor.

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

Summer Year 3

SIUE Course		Hours
CS 150	Intro to Computing II	3
ECE 211	Circuit Analysis II	3
Total		6

Fall Year 3

SIUE Course		Hours
ECE 282	Digital Systems Design	4
ECE 351	Signals and Systems	3
ECE 352	Stochastic Processes	3
CS 240	Intro to Computing III	3
CS 286	Intro to Comp. Org. & Architecture	3
Total		16

Spring Year 3

SIUE Course		Hours
ECE 326	Electronic Circuits I	4
ECE 483	Adv. Digital Systems Engr.	3
ECE 381	Microcontrollers	3
MATH 224	Discrete Mathematics	3
EH ¹	Health Experience	2
BICS	Breadth Infor, Comm & Society	3
Total		18

Fall Year 4

SIUE Course		Hours
ECE 404	ECE Design	3
ECE/CS XXX	Elective	3
CS 314	Operating Systems	3
IE 345	Engineering Economic Analysis	3
PHIL 323	Engr. Ethics & Professionalism	3
IE 106	Engineering Problem Solving	3
Total		18

Spring Year 4

SIUE Course		Hours
ECE 405	ECE Senior Design II	3
ECE/CS XXX	Elective	3
ECE/CS XXX	Elective	3
CS 340	Algorithms & Data Structures	3
IS/EGC	Interdisciplinary Course	3
Total		15

Bachelor of Science Total 140.5

Pathway - Computer Engineering

NOTE: Students must apply for admission to upper-division classes before starting the junior year at SIUE.

The form "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, senior level courses, as shown above, at SIUE, they will meet this requirement. Please note: deviating from the planned curriculum 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 the major or minor requirements. A course that transfers in as 1xx, 2xx, 3xx, or TRF 1xx, 2xx, 3xx may require a course description and/or course syllabus for further evaluation.