

Pathway - Electrical 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 I	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
Total		13

Fall Year 2

RLC Course		Hours
CSCI 1103	Introduction to Programming	3
PHY 1104	University Physics II	5
MATH 2123	Calculus and Analytic Geometry III	4
ECON 2101	Principles of Economics I	3
Total		15

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 61.5

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

Summer Year 3

SIUE Course		Hours
ECE 211	Circuit Analysis II	3
Total		3

Fall Year 3

SIUE Course		Hours
ECE 282	Digital Systems Design	4
ECE 326	Electronic Circuits I	3
ECE 351	Signals and Systems	3
ECE 352	Stochastic Processes	3
MATH 355	Engineering Mathematics	5
Total		18

Spring Year 3

SIUE Course		Hours
ECE 340	Engineering Electromagnetics	3
ECE 365	Control Systems	3
ECE 375	Intro to Communications	3
XXX	Non-ECE Tech Elective	3
EH ¹	Health Experience	2
BICS	Breadth Infor, Comm & Society	3
Total		17

Fall Year 4

SIUE Course		Hours
ECE 341	Electromechanical Energy Conv	3
ECE 404	ECE Design	3
ECE/CS XXX	Elective	3
ECE/CS XXX	Elective	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
IE 345	Engineering Economic Analysis	3
IS/EGC	Interdisciplinary Course	3
Total		15

Bachelor of Science Total 132.5

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

¹Non-credit experiences available. See advisor.

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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.