

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Electrical Engineering Pathway

**Rend Lake College
Associate in Engineering Science Degree
Fall Year 1**

RLC Course		Hours
CSCI 1104	Introduction to Programming	4
ENGL 1101	Rhetoric and Composition I	3
PHY 1103	University Physics I	5
MATH 1121	Calculus and Analytic Geometry	5
Total		17

Spring Year 1

RLC Course		Hours
ENGG 1101	Graphics	4
ENGL 1102	Rhetoric and Composition II	3
PHY 1104	University Physics II	5
MATH 2122	Calculus and Analytic Geometry II	5
Total		17

Fall Year 2

RLC Course		Hours
CHE 1103	Inorganic Chemistry	5
COMM 1101	Principles of Effective Speaking	3
MATH 2123	Calculus and Analytic Geometry III	4
PHY 2101	Statics	3
PHIL 2101	Logic	3
Total		18

Spring Year 2

RLC Course		Hours
BIO 1100	Biology for Non-Majors	4
MATH 2130	Differential Equations	3
ECON 2101	Principles of Economics I	3
PHY 2102	Dynamics	3
PHY 2121	Electrical Engineering Circuits	4
Total		17

Associate in Engineering Science Total 69

**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 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
Non-ECE XXX	Non-ECE Elective	3
BFPA/EREG	Breadth Fine & Performing Arts/EREG	3
Total		15

Fall Year 4

SIUE Course		Hours
ECE 341	Electromechanical Energy Conv	3
ECE 404	ECE Design	3
ECE XXX	Elective I	3
ECE XXX	Elective III	3
PHIL 323	Engr. Ethics & Professionalism	3
EH XXX ³	Experience Health	0-2
Total		15

Spring Year 4

SIUE Course		Hours
ECE 405	ECE Senior Design II	3
ECE XXX	Elective III	3
ECE XXX	Elective IV	3
IE 345	Engineering Economic Analysis	3
IS/ERGU	Interdisciplinary Course/ERGU	3
Total		15

Bachelor of Science Total 136

³Options are available. Consult with SIUE advisor.

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School of Engineering Transfer Credit Advisory Notes:

Students must complete 50% or more of their requirements at SIUE.

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.