

Pathway - Electrical 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 Arts	Fine Arts Course	3
Total		16

Fall Year 2

LCCC Course		Hours
CIS 235	C++ Programing Language	3
ECON 151	Macroeconomics	3
MATH 271	Calculus and Analytic Geo III	4
PHYS 142	General Physics II	5
Total		15

Spring Year 2

LCCC Course		Hours
PHYS 210	Circuit Analysis	3
MATH 272	Differential Equations	3
¹ IAI Life Science	Life Science Course	3
¹ ELEC	Elective	3
Total		12

Associate in Engineering Total **60**

¹ Students please consult with LCCC advisor for courses that can be used for SIUE Health requirement and Life Science.

²E 106 may no longer be required if AES is earned.
More details coming.

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

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 Designs	4
ECE 326	Electronic Circuits II	4
ECE 351	Signals and Systems	3
ECE 352	Stochastic Processes	3
MATH 355	Engineering Math	3
Total		17

Spring Year 3

SIUE Course		Hours
NON-ECE Tech	NON-ECE Tech Elective	3
ECE 340	Engineering Electromagnetics	3
ECE 365	Control Systems	3
ECE 375	Intro to Communications	3
EH	Experience Health ¹	1
² IE 106	² Engineering Problem Solving	3
Total		16

Fall Year 4

SIUE Course		Hours
ECE 341	Electromechanical Energy Conv.	4
ECE 404	ECE Senior Design I	3
ECE/CS XXX	Elective I	3
ECE/CS XXX	Elective II	3
PHIL 323	Engineering Ethics	3
Total		16

Spring Year 4

SIUE Course		Hours
ECE 405	ECE Design Laboratory	3
ECE/CS XXX	Elective III	3
ECE/CS XXX	Elective IV	3
IE 345	Engineering Economics Analysis	3
IS/EGC	Interdisciplinary Studies	3
BICS	Breadth Info. & Comm. in Soc.	3
Total		18

Bachelor of Science Total **131**

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NOTE: Students must apply for admission to upper-division classes before starting the 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, stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule 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 major or minor requirements. A course that transfers in as 1xx, 2xx, 3xx or TRF 1xx; TRF 2xx; TRF 3xx may require a course description and/or syllabus for further evaluation.*