

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/Pathways advisor for courses that can be used for SIUE Health requirement and Life Science.

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

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 I | 4 |
| ECE 351 | Signals and Systems | 3 |
| ECE 352 | Engineering Probability & Statistics | 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 |
| ERGU | EXP- US Race Gender and Equity | 3 |
| Total | | 15 |

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 Senior Design II | 3 |
| ECE/CS XXX | Elective III | 3 |
| ECE/CS XXX | Elective IV | 3 |
| IE 345 | Engineering Economics Analysis | 3 |
| IS/EREG | IS/EREG | 3 |
| BICS | Breadth Info. & Comm. in Society | 3 |
| Total | | 18 |

Bachelor of Science Total **130**

Pathway - Electrical Engineering

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.

A course that satisfies both the ERGU and EREG attribute requirement will only be counted as meeting one and not both.

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.*