

**SOUTHERN ILLINOIS UNIVERSITY  
EDWARDSVILLE**

**Pathway - Electrical Engineering**

**Lincoln Land Community College  
Associate in Science Degree  
Fall Year 1**

| LLCC Course   |                                    | Hours     |
|---------------|------------------------------------|-----------|
| EGL 101       | Composition I                      | 3         |
| CHE 101       | General Chemistry I                | 4         |
| ECO 132       | Principles of Economics II (Macro) | 3         |
| MAT 131       | Calculus & Analytic Geometry I     | 5         |
| IAI Fine Arts | IAI Fine Arts                      | 3         |
| <b>Total</b>  |                                    | <b>18</b> |

**Spring Year 1**

| LLCC Course  |                                 | Hours     |
|--------------|---------------------------------|-----------|
| EGL 102      | Composition II                  | 3         |
| CMN 101      | Public Speaking Fundamentals    | 3         |
| MAT 132      | Calculus & Analytic Geometry II | 5         |
| PHY 201      | Physics I                       | 4         |
| <b>Total</b> |                                 | <b>15</b> |

**Fall Year 2**

| LLCC Course  |                                  | Hours     |
|--------------|----------------------------------|-----------|
| PHY 202      | Physics II                       | 4         |
| MAT 233      | Calculus & Analytic Geometry III | 4         |
| IAI HUMN     | IAI Humanities                   | 3         |
| MAT 161      | Computer Programming             | 4         |
| <b>Total</b> |                                  | <b>15</b> |

**Spring Year 2**

| LLCC Course          |                               | Hours     |
|----------------------|-------------------------------|-----------|
| ENG 221 <sup>1</sup> | Dynamics                      | 3         |
| ENG 270              | Circuit Analysis              | 3         |
| MAT 235              | Differential Equations        | 4         |
| BIO 101/111          | Gen. Biology/Prin. of Biology | 4         |
| IAI S/B Science      | IAI Social Behavioral Science | 3         |
| <b>Total</b>         |                               | <b>17</b> |

**Associate in Science Total** **65**

**Accepted Hours for Bachelor degree** **60**

<sup>1</sup>ENG 220 is the prerequisite course required for ENG 221.

**Southern Illinois University Edwardsville  
Bachelor of Science Degree  
Summer Year 3**

| SIUE Course  |                     | Hours    |
|--------------|---------------------|----------|
| ECE 211      | Circuit Analysis II | 3        |
| <b>Total</b> |                     | <b>3</b> |

**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      | Engineering Probability & Statistics | 3         |
| MATH 355     | Engineering Mathematics              | 5         |
| <b>Total</b> |                                      | <b>18</b> |

**Spring Year 3**

| SIUE Course  |                                | Hours     |
|--------------|--------------------------------|-----------|
| ECE 340      | Engineering Electromagnetics   | 3         |
| ECE 365      | Control Systems                | 3         |
| ECE 375      | Introduction to Communications | 3         |
| Non ECE ELEC | Tech Elective                  | 3         |
| <b>Total</b> |                                | <b>12</b> |

**Fall Year 4**

| SIUE Course  |                                | Hours     |
|--------------|--------------------------------|-----------|
| ECE 404      | ECE Design                     | 3         |
| ECE 341      | Electromechanical Energy Conv. | 4         |
| ECE XXX      | ECE Elective I                 | 3         |
| ECE XXX      | ECE Elective II                | 3         |
| PHIL 323     | Engineering Ethics             | 3         |
| <b>Total</b> |                                | <b>16</b> |

**Spring Year 4**

| SIUE Course  |                                | Hours     |
|--------------|--------------------------------|-----------|
| ECE 405      | ECE Design Laboratory          | 3         |
| ECE XXX      | ECE Elective III               | 3         |
| ECE XXX      | Elective IV                    | 3         |
| IE 345       | Engineering Economics Analysis | 3         |
| IS           | Interdisciplinary Studies      | 3         |
| <b>Total</b> |                                | <b>15</b> |

**Bachelor of Science Degree Total** **129**

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

## **Pathway - Electrical Engineering**

### **School of Engineering Transfer Credit Advisory Notes:**

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.

Students must select a life science course other than physics and chemistry. Department approved courses include:

ENSC 340, GEOG 202, BIOL 111, BIOL 140, BIOL 150, BIOL 151, BIOL 203, BIOL 204, BIOL 205, BIOL 220, BIOL 240A, BIOL 240B.