

**SOUTHERN ILLINOIS UNIVERSITY  
EDWARDSVILLE**

**Pathway - Industrial Engineering**

**Lincoln Land Community College  
Associate in Engineering 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         |
| <b>Total</b> |                                    | <b>15</b> |

**Spring Year 1**

| LLCC Course  |                                 | Hours     |
|--------------|---------------------------------|-----------|
| EGL 102      | Composition II                  | 3         |
| CMN 104      | Interpersonal Communication     | 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         |
| ENG 220 <sup>2</sup> | Statics                          | 3         |
| MAT 161              | Computer Programming             | 4         |
| ENG 101              | Engineering Graphics             | 3         |
| <b>Total</b>         |                                  | <b>18</b> |

**Spring Year 2**

| LLCC Course          |                                  | Hours     |
|----------------------|----------------------------------|-----------|
| ENG Elective         | Program/Support Course Selection | 3         |
| ENG 240 <sup>1</sup> | Mechanics of Materials           | 4         |
| MAT 235              | Differential Equations           | 4         |
| ENG 270              | Circuit Analysis                 | 3         |
| BIO 101/111          | Gen. Biology/Prin. of Biology    | 4         |
| <b>Total</b>         |                                  | <b>18</b> |

**Associate in Engineering Science Total 66**  
**Accepted Hours for Bachelor degree 60**

<sup>1</sup>ENG 240 may be offered in the summer semester.

<sup>2</sup>ENG 220 is the prerequisite course required for ENG 221.

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

| SIUE Course  |                                      | Hours     |
|--------------|--------------------------------------|-----------|
| IE 335       | Intro to information Processing Sys. | 3         |
| IE 345       | Engineering Economics Analysis       | 3         |
| STAT 380     | Statistics for Applications          | 3         |
| IE 370       | Manufacturing Processes              | 3         |
| IE 375       | Three Dim. Mod in Product Design     | 3         |
| <b>Total</b> |                                      | <b>15</b> |

**Spring Year 3**

| SIUE Course  |                                     | Hours     |
|--------------|-------------------------------------|-----------|
| IE 415       | Operations Res- Deterministic Mod.  | 3         |
| IE 451       | Methods Design & Work Meas.         | 3         |
| IE 465       | Design & Control of Quality Systems | 3         |
| IE 470       | Manufacturing Systems               | 3         |
| BFPA         | BFPA                                | 3         |
| EH           | Health Experience                   | 1         |
| <b>Total</b> |                                     | <b>16</b> |

**Fall Year 4**

| SIUE Course  |                                  | Hours     |
|--------------|----------------------------------|-----------|
| IE 468       | Operations Research - Simulation | 3         |
| IE 476       | Plantwide Process Control        | 3         |
| IE 483       | Production Planning & Control    | 3         |
| IE 484       | Facilities Planning              | 3         |
| IE XXX       | Elective I                       | 3         |
| <b>Total</b> |                                  | <b>15</b> |

**Spring Year 4**

| SIUE Course  |                               | Hours     |
|--------------|-------------------------------|-----------|
| IE 490       | Integrated Engineering Design | 3         |
| IE XXX       | IE Elective II                | 3         |
| IE XXX       | IE Elective III               | 3         |
| PHIL 323     | Engineering Ethics            | 3         |
| IS/EREG      | IS/EREG                       | 3         |
| <b>Total</b> |                               | <b>15</b> |

**Bachelor of Science Degree Total 127**

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

## **Pathway - Industrial 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.