

**Pathway - Civil 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         |
| <b>Total</b> |                                | <b>17</b> |

**Spring Year 1**

| LCCC Course  |                              | Hours     |
|--------------|------------------------------|-----------|
| ENGL 132     | First Year English II        | 3         |
| MATH 172     | Calculus and Analytic Geo II | 5         |
| DRFT 131/140 | Gen. or Computer Drafting    | 4         |
| PHYS 141     | General Physics I            | 5         |
| <b>Total</b> |                              | <b>17</b> |

**Fall Year 2**

| LCCC Course      |                               | Hours     |
|------------------|-------------------------------|-----------|
| PHYS 241         | Statics                       | 3         |
| IAI Life Science | Life Science                  | 3         |
| MATH 271         | Calculus and Analytic Geo III | 4         |
| PHYS 142         | General Physics II            | 5         |
| <b>Total</b>     |                               | <b>15</b> |

**Spring Year 2**

| LCCC Course        |                              | Hours     |
|--------------------|------------------------------|-----------|
| MATH 272           | Differential Equations       | 3         |
| PHYS 242           | Dynamics                     | 3         |
| IAI Fine Arts      | IAI Fine Arts                | 3         |
| ECON 151           | Macroeconomics               | 3         |
| CIS 210 or CIS 235 | Java Program or C++ Language | 3         |
| <b>Total</b>       |                              | <b>15</b> |

**Associate in Engineering Total 64**

<sup>1</sup>Students may take PHYS 245 at LCCC in the summer if offered. If 245 is not offered, students will take CE 242 in the summer at SIUE.

<sup>2</sup> IE 106 may no longer be required if AES is earned.

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

**Southern Illinois University Edwardsville  
Bachelor of Science Degree**

| SIUE Course         | Summer Year 3       | Hours    |
|---------------------|---------------------|----------|
| <sup>1</sup> CE 242 | Mechanics of Solids | 3        |
| <b>Total</b>        |                     | <b>3</b> |

**Fall Year 3**

| SIUE Course  |                              | Hours     |
|--------------|------------------------------|-----------|
| CE 206       | Surveying                    | 3         |
| CE 315       | Fluid Mechanics              | 3         |
| CE 342       | Structural Engineering       | 3         |
| CE 330       | Engineering Materials        | 2         |
| CE 330L      | Engineering Materials Lab    | 1         |
| CE 354       | Geotechnical Engineering     | 3         |
| CE 354L      | Geotechnical Engineering Lab | 1         |
| <b>Total</b> |                              | <b>16</b> |

**Spring Year 3**

| SIUE Course         |  | Hours     |
|---------------------|--|-----------|
| CE 343              | Structural Engineering II                | 3         |
| <sup>2</sup> IE 106 | <sup>2</sup> Engineering Problem Solving | 3         |
| EH                  | Experience Health                        | 1         |
| CE 376              | Transportation Engineering               | 3         |
| CE 380              | Environmental Engineering                | 3         |
| STAT 380            | Stats for Application                    | 3         |
| <b>Total</b>        |  | <b>16</b> |

**Fall Year 4**

| SIUE Course    |                                      | Hours     |
|----------------|--------------------------------------|-----------|
| CE 416/455/459 | Eng. Hyd.Foun. Des./ Soil Imp. Meth. | 3         |
| CE 460         | Municipal Infrastructure Design      | 3         |
| CE XXX         | CE Elective I                        | 3         |
| PHIL 323       | Engineering Ethics                   | 3         |
| CE XXX         | CE Selective                         | 3         |
| FE Exam Prep   | Prep for Fund. of Engr Exam          | 0         |
| <b>Total</b>   |                                      | <b>15</b> |

**Spring Year 4**

| SIUE Course  |                           | Hours     |
|--------------|---------------------------|-----------|
| CE 415L      | Applied Fluids Lab        | 1         |
| CE 493       | Engineering Design        | 3         |
| CE XXX       | Elective II               | 3         |
| CE XXX       | Elective III              | 3         |
| IE 345       | Engineering Economics     | 3         |
| IS/EGC       | Interdisciplinary Studies | 3         |
| <b>Total</b> |                           | <b>16</b> |

**Bachelor of Science Total 130**

## Pathway - Civil 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.

**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.*