

## Pathway - Industrial 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
PHYS 141	General Physics I	5
ECON 151	Macroeconomics	3
<b>Total</b>		<b>16</b>

#### Fall Year 2

LCCC Course		Hours
MATH 271	Calculus and Analytic Geo III	4
PHYS 142	General Physics II	5
DRFT 131 or 140	Gen. Drafting or Comp. Drafting	4
PHYS 241	Statics	3
<b>Total</b>		<b>16</b>

#### Spring Year 2

LCCC Course		Hours
<sup>1</sup> IAI Life Science	IAI Life Science	3
MATH 272	Differential Equations	3
CIS 210	Java Programing	3
IAI Fine Arts	IAI Fine Arts	3
PHYS 210	Circuit Analysis	3
<b>Total</b>		<b>15</b>

**Associate in Engineering Total** **64**

<sup>1</sup>Students please consult with LCCC/Pathways advisor for courses that can be used for Life Science.

<sup>2</sup>Students may take PHYS 245 in the summer at LCCC if offered. If 245 is not offered, students will take CE 242 in the summer at SIUE.

### Southern Illinois University Edwardsville Bachelor of Science Degree

#### Summer Year 3

SIUE Course		Hours
<sup>2</sup> CE 242	Mechanics of Solids	3
<b>Total</b>		<b>3</b>

#### Fall Year 3

SIUE Course		Hours
IE 335	Intro to Infor. Proc. Systems	3
IE 345	Engineering Economic Analysis	3
STAT 380	Statistics for Application	3
IE 370	Manufacturing Processes	3
IE 375	3-D Modeling Product Design	3
ERGU	EXP- US Race Gender and Equity	3
<b>Total</b>		<b>18</b>

#### Spring Year 3

SIUE Course		Hours
IE 415	Oper.Deterministic Models	3
IE 451	Methods Design & Work Areas	3
IE 465	Design & Control of Quality Sys	3
IE 470	Manufacturing Systems	3
<b>Total</b>		<b>12</b>

#### Fall Year 4

SIUE Course		Hours
IE 468	Operations Research	3
IE 476	Plant Wide Process Control	3
IE 483	Production Planning & Control	3
IE 484	Facilities Planning	3
IE XXX	Elective I	3
EH	Health Experience	1
<b>Total</b>		<b>16</b>

#### Spring Year 4

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

**Bachelor of Science Total** **128**

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

## Pathway - Industrial 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.*