

## Pathway - Mechanical 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	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 221 <sup>2</sup>	Dynamics	3
ENG 240 <sup>1</sup>	Mechanics of Materials	4
MAT 235	Differential Equations	4
BIO 101/111	Gen. Biology/Prin. of Biology	4
ENG 270	Circuit Analysis	3
<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
ME 310	Thermodynamics I	3
ME 350	Dynamics of Mechanisms	3
ME 354	Numerical Simulations	1
ME 370	Materials Engineering	3
STAT 380	Statistics for Applications	3
<b>Total</b>		<b>13</b>

#### Spring Year 3

SIUE Course		Hours
ME 312	Thermodynamics II	3
ME 315	Fluid Mechanics	3
ME 356	Dynamic Systems Modeling	3
ME 380	Design of Machine Elements	3
ME 380L	Stress Laboratory	1
PHIL 323	Engineering Ethics	3
<b>Total</b>		<b>16</b>

#### Fall Year 4

SIUE Course		Hours
ME 410	Heat Transfer	3
ME 410L	Thermal Fluid Laboratory	1
ME 482	Mechanical Engineering Design I	2
ME XXX	ME Elective I	3
IE 345	Engineering Economic Analysis	3
IS/EREG	IS/EREG	3
<b>Total</b>		<b>15</b>

#### Spring Year 4

SIUE Course		Hours
ME 356L	Dynamical Systems Laboratory	1
ME 484	Mechanical Engineering Design II	2
ME XXX	Elective II	3
ME XXX	Elective III	3
BFPA	Breadth Fine & Performing Arts	3
EH	Health Experience	1
ENG XXX	Engineering Elective	3
<b>Total</b>		<b>16</b>

**Bachelor of Science Degree Total** **126**

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

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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 requirement will only be counted as 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.*