

**SOUTHERN ILLINOIS UNIVERSITY  
EDWARDSVILLE**

**Pathway - Mechatronics and Robotics Engineering**

**College of Lake County  
Associate in Engineering Science Degree  
Fall Year 1**

CLC Course		Hours
CLC 120	College Success Seminar	2
MTH 145	Calculus & Analytic Geometry I	5
EGR 120	Introduction to Engineering	1
CHM 121	General Chemistry I	5
ENG 121	English Composition I	3
<b>Total</b>		<b>16</b>

**Spring Year 1**

CLC Course		Hours
MTH 146	Calculus & Analytic Geometry II	4
ENG 122	English Composition II	3
PHY 123	Physics for Science & Eng. I	5
MCS 140/141	Comp. Programming/Comp Science	3/4
PSY 121	Introduction to Psychology	3
<b>Total</b>		<b>18/19</b>

**Fall Year 2**

CLC Course		Hours
PHY 124	Physics for Science & Eng. II	5
EGR 125	Engineering Statics	3
MTH 246	Calculus & Analytic Geometry III	5
CMM 121	Public Speaking	3
IAI Fine Art <sup>1</sup>	IAI Fine Art	3
<b>Total</b>		<b>19</b>

**Spring Year 2**

CLC Course		Hours
MTH 227	Ordinary Differential Equations	3
EGR 225	Engineering Dynamics	3
EGR 260	Introduction to Circuit Analysis	4
EGR 222	Engineering Mechanics of Materials	3
ECO 221	Principles of Macroeconomics	3
<b>Total</b>		<b>16</b>

**Associate in Engineering Science Total 69/70**

<sup>1</sup>Please consult with CLC or SIUE advisor for course options.

**Southern Illinois University Edwardsville  
Bachelor of Science Degree  
Summer Year 2**

SIUE Course		Hours
ECE 211	Circuit Analysis II	4
<b>Total</b>		<b>4</b>

**Fall Year 3**

SIUE Course		Hours
ECE 282	Digital System Design	4
ME 356	Dynamic Systems Modeling	3
ME 354	Numerical Simulation	1
MRE 320	Sensors and Actuators	3
MATH 321	Linear Algebra	3
<b>Total</b>		<b>14</b>

**Spring Year 3**

SIUE Course		Hours
MRE 358	Introduction to Mechatronics	3
ME 450	Automatic Control	3
MRE 380	Design of Machine Elements	3
ECE 381	Microcontroller	3
PHIL 323	Engineering Ethics	3
<b>Total</b>		<b>15</b>

**Fall Year 4**

SIUE Course		Hours
MRE 454	Robotics, Dynamics, & Controls	3
MRE 480	Design in Mechatronics & Robotics I	2
MRE XXX	MRE Technical Elective I	3
IE 345	Engineering Economic Analysis	3
IS/EREG	IS/EREG	3
<b>Total</b>		<b>14</b>

**Spring Year 4**

SIUE Course		Hours
MRE XXX	MRE Technical Elective II	3
MRE 477	Computer-Integ Manufacturing Systems	3
MRE 481	Design in Mechatronics & Robotics II	2
BLS	Breadth Life Science	3
STAT 380	Statistics for Application	3
<b>Total</b>		<b>14</b>

**Bachelor of Science Degree Total 130/131**

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

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School of Engineering Transfer Credit Advisory Notes:

NOTE: For students majoring in Civil, Industrial, Mechanical or Mechatronics & Robotics Engineering they 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.