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
Total		**16**

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
CSC 128	Computer Science I	4
EGR 121	Engineering Design Graphics	3
Total		**19**

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
IAI Fine Art[1]	IAI Fine Art	3
Total		**16**

Spring Year 2

CLC Course		Hours
MTH 227	Ordinary Differential Equations	3
EGR 225	Engineering Dynamics	3
EGR 260	Introduction to Circuit Analysis	4
PSY 121	Introduction to Psychology	3
ECO 221	Principles of Macroeconomics	3
Total		**16**

Associate in Engineering Science Total 67

[1]Please consult with CLC or SIUE advisor for course options.

Southern Illinois University Edwardsville
Bachelor of Science Degree

Fall Year 3

SIUE Course		Hours
ECE 211	Circuit Analysis II (summer option available)	4
ECE 282	Digital System Design	4
ME 356	Dynamic Systems Modeling	3
ME 354	Numerical Simulation	1
MRE 320	Sensors and Actuators	3
CE 242	Mechanics of Solids	3
Total		**18**

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
MATH 321	Linear Algebra	3
PHIL 323	Engineering, Ethics & Professionalism	3
Total		**18**

Fall Year 4

SIUE Course		Hours
MRE 454	Robotics, Dynamics, & Controls	3
MRE 480	Design in Mechatronics & Robotics I	2
MRE XXX	MRE Elective I	3
IE 345	Engineering Economic Analysis	3
ACS 103	Interpersonal Communication	3
BLS	Breadth Life Science	3
Total		**17**

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
IS	IS (EREG/ERGU - if needed)	3
STAT 380	Statistics for Application	3
Total		**14**

Bachelor of Science Degree Total 134

SIUE Transfer Center
618-650-2133
transfercredit@siue.edu

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School of Engineering Transfer Credit Advisory Notes:

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 Cultures, Race, and Equity Education Experience (EREG) or US Race, Gender, and Equity Experience (ERGU). Please see the SIUE advisor for a current list of course options.