SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Pathway - Mechatronics and Robotics 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
Total		17

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
Total		16

Fall Year 2

LCCC Course		Hours
MATH 271	Calculus and Analytic Geo III	4
PHYS 142	General Physics II	5
CIS 235	C++ Programing Language	3
PHYS 241	Statics	3
Total		15

Spring Year 2

LCCC Course		Hours
¹ IAI Life Science	IAI Life Science	3
MATH 272	Differential Equations	3
PHYS 242	Dynamics	3
IAI Fine Arts	IAI Fine Arts	3
PHYS 210	Circuit Analysis	3
Total		15

Associate in Engineering Total

¹ Students please consult with LCCC/Pathways advisor for courses	
that can be used for SILIE Life Science	

²Students may take PHYS 245 at LCCC in the summer if offered.

If not offered, students will take CE 242 and ECE 111 in the summer at SIUE.

Southern Illinois University Edwardsville Bachelor of Science Degree

Summer Year 3

SIUE Course		Hours
² CE 242	Mechanics of Solids	3
² ECE 211	Circuit Analysis II	3
Total		6

Fall Year 3

SIUE Course		Hours
ECE 282	Digital Systems Design	3
ME 356	Dynamic Systems Modeling	3
ME 354	Numerical Simulation	3
MRE 380	Design of Machine Elements	3
MATH 321	Linear Algebra	3
ERGU	EXP- US Race Gender and Equity	3
Total	_	18

Spring Year 3

SIUE Course		Hours
MRE 358	Introduction to Mechatronics	3
MRE 320	Sensors and Actuators	3
³ ME 450	Automatic Control	3
ECE 381	Microcontroller	3
PHIL 323	Engr. Ethics & Professionalism	3
Total		15

Fall Year 4

SIUE Course		Hours
MRE 454	Robotics, Dynamics & Controls	3
MRE 480	Design in Mechatronic & Robotics I	3
MRE XXX	MRE Elective I	3
IE 345	Engineering Economic Analysis	3
IS/EREG	IS/EREG	3
Total		15

Spring Year 4

SIUE Course		Hours
MREXXX	MRE Elective II	3
MRE 477	Comp. Integ. Manufac. Systems	3
MRE 481	Design in Mechatronic & Robotics II	2
EH	Health Experience	1
STAT 380	Statistics for Applications	3
Total		12
Bachelor of Science Total		129

^{*}Students must complete 50% or more of the degree requirements at

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³ME 450 may be substituted by the two-course series of ECE 365 (control systems) and ECE 465 (control systems design).

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School of Engineering Transfer Credit Advisory Notes:

NOTE: Student 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.

Students must select a life science course other than physics and chemistry. Department approved courses include:

ENSC 340, GEOG 202, BIOL 111, BIOL 140, BIOL 150, BIOL 151, BIOL 203, BIOL 204, BIOL 205, BIOL 220, BIOL 240A, BIOL 240B.