SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Pathway - Mechatronics and Robotics Engineering

Lewis and Clark Community College Associate Degree AES Fall Year 1

Fall Year 1		
	Hours	
First Year English I	3	
General Chemistry I	5	
Recitation	1	
Public & Private Communication	3	
Calculus and Analytic Geo	5	
	17	
Spring Year 1		
	Hours	
First Year English II	3	
Calculus and Analytic Geo II	5	
General Physics I	5	
Macroeconomics	3	
	16	
Fall Year 2		
	Hours	
Calculus and Analytic Geo III	4	
General Physics II	5	
C++ Programing Language	3	
Statics	3	
	15	
Spring Year 2		
	Hours	
IAI Life Science	3	
Differential Equations	3	
Dynamics	3	
IAI Fine Arts	3	
Circuit Analysis	3	
Total		
Associate in Engineering Total		
onsult with LCCC/Pathways advisor for	courses	
	First Year English I General Chemistry I Recitation Public & Private Communication Calculus and Analytic Geo Spring Year 1 First Year English II Calculus and Analytic Geo II General Physics I Macroeconomics Fall Year 2 Calculus and Analytic Geo III General Physics I Calculus and Analytic Geo III General Physics II C++ Programing Language Statics Spring Year 2 IAI Life Science Differential Equations Dynamics IAI Fine Arts Circuit Analysis	

that can be used for SIUE 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.

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

Southern Illinois University Edwardsville Bachelor of Science Degree Summer Year 3

	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

STAT 380Statistics for Applications3Total12Bachelor of Science Total129

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

SIUE. Partnership Advising Office LCCC: Haskell Hall Room B07 618-468-2628(LCCC)

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Pathway - Mechatronics and Robotics Engineering

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.