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		***63***

[1] Students please consult with LCCC/Pathways advisor for courses that can be used for SIUE Life Science.

[2]Students 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.

[3]ME 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

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 SIUE.

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

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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 attribute requirement will only be counted as meeting 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.*