SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Pathway - Mechatronics and Robotics Engineering

Rend Lake College
Associate Engineering Science Degree

Fall Year 1

RLC Course		Hours
ENGL 1101	Rhetoric and Composition I	3
CHE 1103	Inorganic Chemistry	5
MATH 1121	Calculus and Analytic Geometry I	5
Fine Arts	ART 1101, MUSI 1100 or THEA 1106	3
ORIE 1101	Orientation	1.5
Total		**17.5**

Spring Year 1

RLC Course		Hours
ENGL 1102	Rhetoric and Composition II	3
PHY 1103	University Physics I	5
MATH 2122	Calculus and Analytic Geometry II	5
Total		**13**

Fall Year 2

RLC Course		Hours
CSCI 1104	Introduction to Programming	3
PHY 1104	University Physics II	5
MATH 2123	Calculus and Analytic Geometry III	4
PHY 2101	Statics	3
ECON 2101	Principles of Economics I	3
Total		**18**

Spring Year 2

RLC Course		Hours
Social Science	HIST 2101, HIST 2012 or SOCI 1101	3
PHY 2121	Electrical Engineering Circuits	4
PHY 2102	Dynamics	3
MATH 2130	Differential Equations	3
COMM 1101	Principles of Effective Speaking	3
Total		**16**

Associate in Engineering Total ***64.5***

*Students must complete 50% or more of SIUE degree requirements at SIUE (120 hours required for graduation).

Southern Illinois University Edwardsville
Bachelor of Science Degree

Summer Year 3

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

Fall Year 3

SIUE Course		Hours
ECE 282	Digital System Design	4
ME 356	Dynamic Systems Modeling	3
ME 354	Numerical Simulation	1
MRE 380	Design of Machine Elements	3
IE 106	Engineering Problem Solving	3
MATH 321	Linear Algebra	3
Total		**17**

Spring Year 3

SIUE Course		Hours
MRE 358	Introduction to Mechatronics	3
MRE 320	Sensors and Actuators	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 & Control	3
MRE 480	Design in Mechatronics & Robotics I	2
XXX	Technical Elective I	3
IE 345	Engineering Economic Analysis	3
EH[1]	Health Experience	2
IS/EGC	Interdisciplinary Course	3
Total		**16**

Spring Year 4

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

Bachelor of Science Total ***132.5***

[1]Non-credit experiences available. See advisor.

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

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NOTE: Students must apply for admission to upper-division classes before starting the junior year at SIUE.
The form "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, senior level courses, as shown above, at SIUE, they will meet this requirement. Please note: deviating from the planned curriculum above may jeopardize this requirement.

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 the major or minor requirements.
A course that transfers in as 1xx, 2xx, 3xx, or TRF 1xx, 2xx, 3xx may require a course description and/or course syllabus for further evaluation.