

Pathway Mechatronics and Robotics Engineering

Kaskaskia College Associate in Engineering Degree

Fall Year 1

KC Course		Hours
ENGL 101	Rhetoric and Composition I	3
CHEM 111	Chemistry I	5
ENGR 103	Engineering Graphics & CAD	3
PHLE 110	Logic	3
MATH 166	Analytical Geometry & Calculus I	5
Total		19

Spring Year 1

KC Course		Hours
SPCH 204	Interpersonal Communication	3
MATH 267	Analytical Geometry & Calculus II	4
PHYS 201	University Physics I	5
ENGL 102	Rhetoric and Composition II	3
ENGR 203	Statics	3
Total		18

Fall Year 2

KC Course		Hours
PHYS 202	University Physics II	5
MATH 268	Analytical Geometry & Calculus III	3
ECON 205	Principles of Economics	3
ENGR 201	Programming for Engineers	3
ENGR 204	Dynamics	3
Total		17

Spring Year 2

KC Course		Hours
MATH 269	Differential Equations	3
ENGR 210	Electrical Circuits	3
ANTH 101	Cultural Anthropology	3
ENGR 205	Mechanics of Materials	3
PHLE 201	Professional Ethics for Engineers	3
Total		15

Associate in Engineering Degree Total ¹ 69

Accepted Hours for Bachelor degree 60

¹Additional hours required for AES degree.

Southern Illinois University Edwardsville Bachelor of Science Degree

Summer Year 3

SIUE Course		Hours
ECE 211	Circuit Analysis II	3
Total		3

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
Total		15

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
BLS	Breadth Life Science	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	3
IE 345	Engineering Economic Analysis	3
BFPA	Fine Arts Breadth	3
IS	Interdisciplinary Studies	3
Total		18

Spring Year 4

SIUE Course		Hours
MRE XXX	MRE Elective	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 Degree Total 132

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

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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.*