

Pathway - Mechatronics and Robotics Engineering

Lincoln Land Community College Associate in Engineering Science Degree

Fall Year 1

LLCC Course	Hours
EGL 101 Composition I	3
CHE 101 General Chemistry I	4
ECO 132 Principles of Economics II (Macro)	3
MAT 131 Calculus & Analytic Geometry I	5
Total	15

Spring Year 1

LLCC Course	Hours
EGL 102 Composition II	3
CMN 104 Interpersonal Communication	3
MAT 132 Calculus & Analytic Geometry II	5
PHY 201 Physics I	4
Total	15

Fall Year 2

LLCC Course	Hours
PHY 202 Physics II	4
MAT 233 Calculus & Analytic Geometry III	4
ENG 220 Statics	3
MAT 161 Computer Programming	4
ENG 101 Engineering Graphics	3
Total	18

Spring Year 2

LLCC Course	Hours
ENG 221 Dynamics	3
ENG 270 Circuit Analysis	3
MAT 235 Differential Equations	4
BIO 101/111 Gen. Biology/Prin. of Biology	4
ENG 240 ¹ Mechanics of Materials	4
Total	18

Associate in Engineering Science Total 66

Accepted Hours for Bachelor degree 60

Students must complete 50% or more of SIUE degree requirements at SIUE.

¹ENG 240 may be offered in the summer semester.

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	4
ME 356 Dynamic Systems Modeling	3
ME 354 Numerical Simulation	1
MRE 380 Design of Machine Elements	3
PHIL 323 Engineering Ethics	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
IE 106 Engineering Problem Solving	3
EH Health Experience	1
AP Applications for Upper Division	0
Total	16

Fall Year 4

SIUE Course	Hours
MRE 454 Robotics, Dynamics & Controls	3
MRE 480 Design in Mechatronics & Robotics I	2
MRE XXX Technical Elective I	3
IE 345 Engineering Economics	3
IS/EGC Interdisciplinary Studies	3
Total	14

Spring Year 4

SIUE Course	Hours
MRE XXX Technical Elective II	3
MRE 477 Computer-Integ Manufacturing Sys.	3
MRE 481 Design in Mechatronics & Robotics II	2
BFPA Breadth Fine & Performing Arts	3
STAT 380 Statistics for Application	3
Total	14

Bachelor of Science Degree Total 130

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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.

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.*