SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Pathway - Mechatronics and Robotics Engineering

College of DuPage Associate in Engineering Science Fall Year 1

Southern Illinois University Edwardsville Bachelor of Science Degree

Summer Year 2

COD Course		Hours
MATH 2231	Calculus & Analytic Geometry I	5
CHEMI 1551	Principles of Chemistry	5
ENGLI 1101	English Composition I	3
ENGIN 1101	Engineering Graphics & Design	3
Total		16

SIUE Course		Hours
ECE 211	Circuit Analysis II	4
Total		4

Fall Year 3

SIUE Course		Hours
ECE 282	Digital System Design	3
ME 356	Dynamic Systems Modeling	3
ME 354	Numerical Simulation	1
MRE 320	Sensors and Actuators	3
MATH 321	Linear Algebra	3
Total		13

Spring Year 1

COD Course		Hours
MATH 2232	Calculus & Analytic Geometry II	5
PHYSI 2111	Physics for Science & Engineer I	5
ENGLI 1102	English Composition II	3
ENGIN 2201	Statics	3
Total		16

Spring Year 3

SIUE Course		Hours
MRE 358	Introduction to Mechatronics	3
ME 450	Automatic Control	3
MRE 380	Design of Machine Elements	3
ECE 381	Microcontroller	3
PHIL 323	Engineering, Ethics & Professionalism	3
Total		15

Fall Year 2

COD Course		Hours
MATH 2233	Calculus & Analytic Geometry III	4
PHYSI 2112	Physics for Science & Engineer II	5
ENGIN 2202	Dynamics	3
ENGIN 2203	Mechanics of Materials	3
IAI LS	IAI Life Science	3
Total		18

Fall Year 4

SIUE Course		Hours
MRE 454	Robotics, Dynamics & Controls	3
MRE 480	Design in Mechatronics & Robotics I	2
MRE XXX	MRE Technical Elective I	3
IE 345	Engineering Economic Analysis	3
IS/EREG	IS/EREG	3
Total		14

Spring Year 2

COD Course	
Differential Equations	4
C++ for Science & Engineer	3
Circuit Analysis I	3
Interpersonal Communication	3
Macroeconomics & Global Economy	3
	16
	Differential Equations C++ for Science & Engineer Circuit Analysis I Interpersonal Communication

Spring Year 4

SIUE Course		Hours
MRE XXX	MRE Technical Elective II	3
MRE 477	Computer-Integ Manufacturing Systems	3
MRE 481	Design in Mechatronics & Robotics II	2
STAT 380	Statistics for Applications	3
BFPA	Breadth Fine & Performing Arts	3
EH	Health Experience	0-2
Total		14

Associate in Engineering Science Degree Total 66

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

Bachelor of Science Degree Total

Transfer Center transfercredit@siue.edu 618-650-2133 126

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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. <u>Please note:</u> 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.