SOUTHERN ILLINOIS UNIVERSITY **EDWARDSVILLE**

Pathway - Mechanical Engineering

16

College of DuPage **Associate in Engineering Science** Fall Year 1

Southern Illinois University Edwardsville Bachelor of Science Degree Fall Year 3

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 210	Electrical Circuits	3
ME 315	Fluid Mechanics	3
ME 350	Dynamics of Mechanisms	3
ME 354	Numerical Simulation	1
ME 370	Materials Engineering	3
BFPA	Breadth Fine & Performing Arts	3
Total		16

Spring Year 1

COD Course MATH 2232

PHYSI 2111

ENGLI 1102

ENGIN 2201

Total

Statics

•	Hours
Calculus & Analytic Geometry II	5
Physics for Science & Engineer I	5
English Composition II	3
Statics	3

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SIUE Course		Hours
ME 312	Thermodynamics II	3
ME 356	Dynamics Systems Modeling	3
ME 380	Design Machine Elements	3
ME 380L	Stress Laboratory	1
PHIL 323	Engineering Ethics	3
STAT 380	Statistics for Application	3
Total		16

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
ME 410	Heat Transfer	3
ME 410L	Thermal Fluid Laboratory	1
ME 482	Mechanical Engineering Design I	2
ME XXX	ME Elective I	3
IE 345	Engineering Economic Analysis	3
IS/EREG	IS/EREG	3
Total		15

Spring Year 2

COD Course		Hours
MATH 2270	Differential Equations	4
CIS 2485	C++ for Science & Engineer	3
ENGIN 2205	Engineering Thermodynamics	3
SPEEC 1160	Interpersonal Communication	3
ECONO 2201	Macroeconomics & Global Economy	3
Total		16

Spring Year 4

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SIUE Course		Hours
ME 356L	Dynamical Systems Laboratory	1
ME 484	Mechanical Engineering Design II	2
ME XXX	Elective II	3
ME XXX	Elective III	3
ELE XXX	Engineering Elective	3
EH	Health Experience	0-2
Total		12

Associate in Engineering Science Degree Total

Bachelor of Science Degree Total

125

66

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

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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.