

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Mechanical Engineering Pathway

**Rend Lake College
Associate in 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
Hum/Fine Arts ¹	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
ENGG 1101	Graphics	4
Total		17

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 ¹	HIST 2101, HIST 2012 or SOCI 1101	3
PHY 2121	Electrical Engineering Circuits	4
PHY 2102	Dynamics	3
BIO 1100	Biology for Non-Majors	4
MATH 2130	Differential Equations	3
COMM 1101/1104	Prin. Effective Speaking/Interpersonal Comm.	3
Total		20

Associate in Engineering Science Total 72.5

¹RLC requires a Multiculturalism course. Consult RLC advisor.

²Non-credit experiences available. See SIUE advisor.

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

**Southern Illinois University Edwardsville
Bachelor of Science Degree**

Summer Year 3

SIUE Course		Hours
CE 242	Mechanics of Solids	3
Total		3

Fall Year 3

SIUE Course		Hours
ME 310	Thermodynamics I	3
ME 315	Fluid Mechanics	3
ME 350	Dynamics of Mechanisms	3
ME 354	Numerical Simulation	3
ME 370	Materials Engineering	3
Total		15

Spring Year 3

SIUE Course		Hours
ME 312	Thermodynamics II	3
ME 356	Dynamic Systems Modeling	3
ME 380	Design of Machine Elements	3
ME 380L	Stress Lab	1
PHIL 323	Engr. Ethics & Professionalism	3
STAT 380	Statistics for Application	3
Total		16

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	Elective I	3
IE 345	Engineering Economic Analysis	3
IS/EREG	IS/EREG	3
Total		15

Spring Year 4

SIUE Course		Hours
ME 356L	Dynamical Systems Lab	1
ME 484	Mechanical Engineering Design II	3
ME XXX	Elective II	3
ME XXX	Elective III	3
ELE XXX	Engineering Elective	3
EH ²	Health Experience	0-2
Total		13

Bachelor of Science Total 134.5

**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**

Mechanical Engineering Pathway

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. Please note: 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.