

Pathway - Industrial Engineering

Rend Lake College Associate 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	5
Fine Arts	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	HIST 2101, HIST 2102 or SOCI 1101	3
PHY 2121	Electrical Engineering Circuits	4
MATH 2130	Differential Equations	3
COMM 1101	Principles of Effective Speaking	3
Total		13

Associate in Engineering Total **65.5**

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
IE 335	Intro to Information Process	3
IE 345	Engineering Economic Analysis	3
STAT 380	Statistics for Application	3
IE 370	Manufacturing Processes	3
IE 375	3-D Modeling in Design	3
Total		15

Spring Year 3

SIUE Course		Hours
IE 415	OR Deterministic Models	3
IE 451	Methods Design & Work Areas	3
IE 465	Design & Control of Quality Sys	3
IE 470	Manufacturing Systems	3
BLS	Breadth Life Science	3
EH ¹	Health Experience	2
Total		17

Fall Year 4

SIUE Course		Hours
IE 468	Operations Research	3
IE 476	Plant Wide Process Control	3
IE 483	Production Planning & Control	3
IE 484	Facilities Planning	3
IE XXX	Elective	3
IE 106	Engineering Problem Solving	3
Total		18

Spring Year 4

SIUE Course		Hours
IE 490	Integrated Engineering Design	3
IE XXX	Elective	3
IE XXX	Elective	3
PHIL 323	Engr. Ethics & Professionalism	3
IS/EGC	Interdisciplinary Course	3
Total		15

Bachelor of Science Total **133.5**

¹Non-credit experiences available. See advisor.

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

Pathway - Industrial Engineering

NOTE: Students must apply for admission to upper-division classes before starting the junior year at SIUE.

The form "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, senior level courses, as shown above, at SIUE, they will meet this requirement. Please note: deviating from the planned curriculum 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 the major or minor requirements. A course that transfers in as 1xx, 2xx, 3xx, or TRF 1xx, 2xx, 3xx may require a course description and/or course syllabus for further evaluation.