

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 1103 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 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).