

Pathway - Computer 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
HEA 1101 Health Education	2
MATH 2123 Calculus and Analytic Geometry III	4
ECON 2101 Principles of Economics I	3
Total	17

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
BIO 1100 Biology for Non-Majors	3
Total	16

Associate in Engineering Total 67.5

Southern Illinois University Edwardsville Bachelor Degree

Summer Year 3

SIUE Course	Hours
CS 150 Intro to Computing II	3
ECE 211 Circuit Analysis II	3
Total	6

Fall Year 3

SIUE Course	Hours
ECE 282 Digital Systems Design	4
ECE 351 Signals and Systems	3
ECE 352 Stochastic Processes	3
CS 240 Intro to Computing III	3
CS 286 Intro to Comp. Org. & Architecture	3
Total	16

Spring Year 3

SIUE Course	Hours
ECE 326 Electronic Circuits I	4
ECE 483 Adv. Digital Systems Engr.	3
ECE 381 Microcontrollers	3
MATH 224 Discrete Mathematics	3
BICS Breadth Infor, Comm & Society	3
Total	16

Fall Year 4

SIUE Course	Hours
ECE 404 ECE Design	3
ECE/CS XXX Elective	3
CS 314 Operating Systems	3
IE 345 Engineering Economic Analysis	3
PHIL 323 Engr. Ethics & Professionalism	3
IE 106 Engineering Problem Solving	3
Total	18

Spring Year 4

SIUE Course	Hours
ECE 405 ECE Senior Design II	3
ECE/CS XXX Elective	3
ECE/CS XXX Elective	3
CS 340 Algorithms & Data Structures	3
IS/EGC Interdisciplinary Course	3
Total	15

Bachelor of Science Total 138.5

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