

**Southwestern Illinois College
Pathway - Computer Engineering**

**Southwestern Illinois College
Associate in Engineering Degree
Fall Year 1**

SWIC Course	Hours
ENG 101 Rhetoric and Composition I	3
CHEM 105 General Chemistry I	5
HES 151 ¹ Personal Health & Wellness	2
MATH 203 Analytic Geom & Calc I	5
Total	15

Spring Year 1

SWIC Course	Hours
IAI Fine Arts ART 103 OR MUS 110	3
MATH 204 Analytic Geom & Calc II	5
PHYS 204 Physics- Mechanics	4
IAI Social Science Human Relations S.S (ERGU)	3
ENG 102 Rhetoric and Composition II	3
Total	18

Fall Year 2

SWIC Course	Hours
PHYS 205 Physics-Heat/EL/Mag	4
MATH 205 Analytic Geom & Calc III	4
ELE XXX ³ CIS 185 - recommended	3
MATH 171 Computer Science I- Java	4
ECON 201 Princ. Of Economics I (Macro)	3
Total	18

Spring Year 2

SWIC Course	Hours
MATH 290 Differential Equations	3
BIOL 100/101 General Biology/Prin. Of Biol I	4
ENGR 271 Electrical Circuits	3
COMM 155 Interpersonal Comm (ERGU or EREG)	3
MATH 271 Computer Science II- Java	4
Total	17

Associate in Engineering Total 68

**Southern Illinois University Edwardsville
Bachelor of Science Degree
Summer Year 3**

SIUE Course	Hours
ECE 211 Circuit Analysis II	4
CS 150 Intro to Computing II	3
Total	7

Fall Year 3

SIUE Course	Hours
ECE 282 Digital Systems Design	4
ECE 351 Signals and Systems	3
ECE 352 Stochastic Processes	3
ECE 326 Electronic Circuits I	3
Total	13

Spring Year 3

SIUE Course	Hours
MATH 224 Discrete Math	3
ECE 483 Adv. Digital Systems Engr.	3
ECE 381 Microcontrollers	3
CS 286 Intro to Computer Org.	3
ECE/CS XXX Elective I	3
Total	15

Fall Year 4

SIUE Course	Hours
IS/EREG IS/EREG	3
CS 314 Operating Systems	3
ECE 404 ECE Design	3
ECE/CS XXX Elective II	3
PHIL 323 Engineering Ethics	3
Total	15

Spring Year 4

SIUE Course	Hours
ECE 405 ECE Design Lab	3
ERGU EXP- US Race Gender and Equity	3
ECE/CS XXX Elective III	3
IE 345 Engineering Economics	3
CS 340 Algorithms Data Structures	3
BICS Breath Info. Comm. In Soc.	3
Total	18

Bachelor of Science Total 136

¹Students may also take HES 152 or HES 130 and 131.

³Students should follow AES speciality curriculum at SWIC.

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

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Students must earn 60 hours from a senior institution for graduation requirements. If students take all SIUE junior and senior level courses, stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule above may jeopardize this requirement.

*A course that satisfies both the ERGU and EREG requirement will only be counted as one and not both.

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 major or minor requirements. A course that transfers in as 1xx, 2xx, 3xx or TRF 1xx; TRF 2xx; TRF 3xx may require a course description and/or syllabus for further evaluation.*

Transfer students should contact the Engineering Student Services office for a review of credentials and placement at least 30 days before the beginning of the term for which entry is desired. Credit will be reviewed using the following guidelines:

300- or 400-level engineering course requirements will not be considered for transfer unless completed within 10 years within an ABET-accredited engineering program.