

Pathway - Electrical Engineering

3 **15**

64

Southwestern Illinois College Associate in Engineering Science Degree Fall Year 1

Fall Year 1			
SWIC Course		Hours	
ENG 101	Rhetoric and Composition I	3	
CHEM 105	General Chemistry I	5	
COMM 155	Interpersonal Comm (ERGU or EREG)	3	
HES 151 ¹	Personal Health & Wellness	2	
MATH 203	Analytic Geom & Calc I	5	
Total		18	
	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	
SOC 230 ²	Race and Ethnicity in U.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 171 ³	Computer Science I-Java	4	

Spring Year 2

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SWIC Course		Hours	
MATH 290	Differential Equations	3	
BIOL 100/101	General Biology/Prin. Of Biol I	4	
ENGR 271	Electrical Circuits	3	
ECON 201	Macro-Economics	3	
Total		13	

Analytic Geom & Calc III

Analytical Mech-Statics

Associate in Engineering Science Total

²SOC 230 satisfies both the human relations and ERGU requirements. Spring only

MATH 205

ENGR 263

Total

Southern Illinois University Edwardsville Bachelor of Science Degree Summer Year 3

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	Hours
Circuit Analysis II	4
	4
Fall Year 3	
	Hours
Digital Systems Designs	4
Electronic Circuits I	4
Signals and Systems	3
Engineering Probability & Statistics	3
Engineering Math	3
	17
Spring Year 3	
	Hours
NON-ECE Tech Elective	3
Engineering Electromagnetics	3
Control Systems	3
Intro to Communications	3
EXP- US Race Gender and Equity	3
	15
Fall Year 4	
	Hours
Electromechanical Energy Conv.	4
ECE Senior Design I	3
Elective I	3
Elective II	3
Engineering Ethics	3
	16
Spring Year 4	
	Hours
ECE Senior Design II	3
Elective III	3
Elective IV	3
Engineering Economics Analysis	3
IS/EREG	3
IS/EREG Breadth Info. & Comm. in Society	3
	Circuit Analysis II Fall Year 3 Digital Systems Designs Electronic Circuits I Signals and Systems Engineering Probability & Statistics Engineering Math Spring Year 3 NON-ECE Tech Elective Engineering Electromagnetics Control Systems Intro to Communications EXP- US Race Gender and Equity Fall Year 4 Electromechanical Energy Conv. ECE Senior Design I Elective II Engineering Ethics Spring Year 4 ECE Senior Design II Elective III Elective III Elective III Elective III

Bachelor of Science Total

130

³MATH 210 may substitute.

^{*}Students should follow AES specialty 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. <u>Please note:</u> 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.