SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Pathway - Electrical Engineering

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		
IΔI Fine Δrts	ΔRT 103 OR MUS 110	3		

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	

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SWIC Course		Hours	
PHYS 205	Physics-Heat/EL/Mag	4	
MATH 171 ³	Computer Science I-Java	4	
MATH 205	Analytic Geom & Calc III	4	
ENGR 263	Analytical Mech- Statics	3	
Total		15	

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	
ECON 201	Macro-Economics	3	
Total		13	

Associate in Engineering Science Total 64

Southern Illinois University Edwardsville Bachelor of Science Degree Summer Year 3

Summer Year 3				
SIUE Course		Hours		
ECE 211	Circuit Analysis II	4		
Total		4		
	Fall Year 3			
SIUE Course		Hours		
ECE 282	Digital Systems Designs	4		
ECE 326	Electronic Circuits I	4		
ECE 351	Signals and Systems	3		
ECE 352	Engineering Probability & Statistics	3		
MATH 355	Engineering Math	3		
Total		17		
	Spring Year 3			
SIUE Course		Hours		
NON-ECE Tech	NON-ECE Tech Elective	3		
ECE 340	Engineering Electromagnetics	3		
ECE 365	Control Systems	3		
ECE 375	Intro to Communications	3		
ERGU	EXP- US Race Gender and Equity	3		
Total		15		
	Fall Year 4			
SIUE Course		Hours		
ECE 341	Electromechanical Energy Conv.	4		
ECE 404	ECE Senior Design I	3		
ECE/CS XXX	Elective I	3		
ECE/CS XXX	Elective II	3		
PHIL 323	Engineering Ethics	3		
Total		16		
	Spring Year 4			
SIUE Course		Hours		
ECE 405	ECE Senior Design II	3		
ECE/CS XXX	Elective III	3		
ECE/CS XXX	Elective IV	3		
IE 345	Engineering Economics Analysis	3		
IS/EREG	IS/EREG	3		
BICS	Breadth Info. & Comm. in Society	3		

Bachelor of Science Total

18

130

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

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.