



**Associate of Science
Pathway to
B.S. Computer Engineering**

<i>Shawnee Community College</i>						
Year 1	ENG-0111	English Comp I	3	ENG-0112	English Comp II	3
	Elective	Social Science	3	MAT-0209	Calculus I	5
	MAT-0115	Pre-Calculus	5	Elective	Social Science	3
	Elective	Life Science	3	Elective	Humanities	3
	Elective	Fine Arts	3	SPC-0111	Speech	3
	17			17		

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Year 2	PHY-0216	University Physics I	4	MAT-0212	Calculus III	5	
	MAT-0211	Calculus II	5	MAT-0213	Ordinary Differential Equations I	3	
	Elective	Social Science	3	Elective	Fine Arts/Humanities	3	
	Elective	Transfer Elective	3	PHY-0217	University Physics II	4	
	15			15			

<i>Southern Illinois University-Carbondale</i>						
Year 3 & 4	BIOL-202	Human Genetics & Human Health	2	ECE-329, 329L	Computer Organization Design w/lab	4
	ECE-222	Intro to Digital Computation	3	ECE-345, 345L	Electronics w/lab	4
	ECE-235, 235L	Electric Circuits I w/lab	4	ECE-355, 355L	Signals & Systems w/lab	4
	ECE-296, 296L	Intro Microntrl & Robotics w/lab	4	ECE-495C	CEGR Sr. Design I	3
	ECE-315	Mathematical Methods in ECE	4	ECE-495D	ECE Sr. Design II	3
	ECE-321, 321L	Intro Software Engineering w/lab	4	Gen Electives	Select from list of approved courses	6
	ECE-327, 327L	Digital Circuit Design w/HDL w/lab	4	Tech Electives	Select from list of approved courses	23
Total Hours to Bachelor Degree: 136 Hours						

Updated: 3/24/2025