

PROGRAM ARTICULATION DEGREE PLAN			
Harper College 2022-2023		Southern Illinois University Carbondale	
Associate in Engineering Science - 62 hrs		BS Computer Engineering (CEGR) - 126 hrs	
University Core Curriculum (UCC) CAPSTONE OPTION - 30 hrs			
		Hrs	Hrs
		UNIV 101	Saluki Success
ENG 101	Composition	3 ENGL 101	English Composition I
ENG 102	Composition	3 ENGL 102	English Composition II
		CMST 101	Intro:Oral Communication
MTH 200	Calculus I	5 MATH 150 (required for BS degree)	Calculus I
	IAI Social Science*	3 SOCIAL SCIENCE	(See SIUC Transfer Equivalency Guide)
		SOCIAL SCIENCE	3
	IAI Humanities/Fine Arts*	3 HUMANITIES	(See SIUC Transfer Equivalency Guide)
		HUMANITIES	NA
CHM 121	General Chemistry I	5 CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/Lab
PHY 201	General Physics I: Mechanics	5 PHYS 205A/255A (Required for BS degree)	University Physics/Lab
		FINE ARTS	3
		BIOL 202 (Required for BS degree)	Human Genetics and Human Health
		MULTICULTURAL	3
	*One course must satisfy a World Cultures and Diversity requirement		
		27	14
Program Requirements		Program Requirements	
The AES from Harper College fulfills the general electives required for the BS in Electrical Engineering			
CHM 122	General Chemistry II	5 CHEM 210/211/212 (Required for BS degree)	General and Inorganic Chemistry/Lab/Workshop
CSC 122	Computer Science I	4 CS 220	Programming w/Data Structures
CSC 214	Intro to Java Programming	4 ECE 222	Intro to Digital Computation
MTH 201	Calculus II	5 MATH 250 (Required for BS degree)	Calculus II
MTH 202	Calculus III	5 MATH 251 (Required for BS degree)	Calculus III
MTH 212	Differential Equations	3 MATH 305 (Required for BS degree)	Introduction Differential Equations
PHY 202	General Physics II: Electricity & Magnetism	5 PHYS 205B/255B (Required for BS degree)	University Physics/Lab
EGR 265	Circuit Analysis	4 ECE 235/L	Electric Circuits I
		35	
		ECE 296/L	Intro Software Tools Robotics
		ECE 315	Math Methods ECE
		ECE 321/L	Intro Software Engineering
		ECE 327/L	Digital Circuit Design w/HDL
		ECE 329/L	Computer Organization & Design
		ECE 345/L	Electronics
		ECE 355/L	Signals and Systems
		ECE 495C	CEGR Senior Design I
		ECE 495D	ECE Senior Design II
		ECE Electives	At least 20 hours from the following list: ECE 412-432, two approved CS courses from CS 3XX or 4XX level (except CS 300, 393, or 493)
			23
			57
Total semester hrs completed w/ AES degree:		62	Total semester hrs completed w/ BS degree:
			71
		Total to BS Degree:	
			133