PROGRAM ARTICULATION DE	EGREE PLAN				
Harper College	2024-2025		Southern Illinois University Carbondale		
AES Engineering Science - 62 h	hrs		BS Computer Engineering (CEGR) - 126 hrs		
			University Core Curriculum (UCC) (CAPSTONE OPTION - 30 hrs	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
			CMST 101	Intro to Oral Communication	3
ENG 101	Composition	3	ENGL 101	English Composition I	Т
ENG 102	Composition	3	ENGL 102	English Composition II	Т
MTH 200	Calculus & Analytic Geometry I	5	MATH 150	Calculus I	Т
	IAI Social Science*	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T
			SOCIAL SCIENCE		3
	IAI Humanities/Fine Arts*	3	HUMANITIES	See SIUC Transfer Equivalency Guide	T
			HUMANITIES		NA
CHM 121	General Chemistry I	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	Т
			LIFE SCIENCE		3
			FINE ARTS		3
			BIOL 202	Human Genetics & Human Health	2
*One course must satisfy a Wor	rld Cultures and Diversity requirement		MULTICULTURAL		3
		22			17
Program Requirements			Program Requirements		
Engineering Specialty Courses	Select from list of approved courses	5		d courses will be used to satisfy general elective credit	
CSC 121	Computer Science I	4	CS 202 (elective)	Intro to Computer Science	Т
CSC 214	Java Programming	4	ECE 222	Intro to Digital Computation	Т
EGR 265	Circuit Analysis	4		Electric Circuits I w/Lab	Т
MTH 201	Calculus & Analytic Geometry II	5	MATH 250	Calculus II	Т
MTH 202	Calculus & Analytic Geometry III	5	MATH 251	Calculus III	Т
MTH 212	Differential Equations	3	MATH 305	Intro to Differential Equations	Т
PHY 201	General Physics I: Mechanics		PHYS 205A -and- 255A	University Physics w/Lab	Т
PHY 202	General Physics II:	5	PHYS 205B -and- 255B	University Physics w/Lab	Т
		40			
			ECE 296 -and- 296L	Intro to Microcontrollers & Robotics w/Lab	4
			ECE 315	Mathematical Methods in ECE	4
			ECE 321 -and- 321L	Intro to Software Engineering w/Lab	4
			ECE 327 -and- 327L	Digital Circuit Design with HDL w/Lab	4
			ECE 329 -and- 329L	Computer Organization & Design w/Lab	4
			ECE 345 -and- 345L	Electronics w/Lab	4
			ECE 355 -and- 355L	Signals & Systems w/Lab	4
			ECE 495C	CEGR Senior Design I	3
			ECE 495D	ECE Senior Design II	3
			-Technical Electives	23 hours of ECE electives. At least 20 hours from: ECE 412-435. 3 hours	29
			reclinical Electives	can be approved CS courses.	
					63
Total semester hrs completed	d w/AES degree:	62	Total semester hrs completed w/BS	degree:	80
			Total to BS Degree:		142
			Total to BS Degree:		142
Degree Plan updated on 7/17/2	4 bv SG				
. J = 2 - 1.2 2.paa.coa 5 1/11/2					