

PROGRAM ARTICULATION DEGREE PLAN			
Harper College 2024-2025		Southern Illinois University Carbondale	
AES Engineering Science - 62 hrs		BS Electrical Engineering (EE) - 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	English Composition I	3 ENGL 101	English Composition I T
ENG 102	English Composition II	3 ENGL 102	English Composition II T
MTH 200	Calculus & Analytic Geometry I	5 MATH 150	Calculus I T
	IAI Social Science*	3 SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide T
		3 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 T
		LIFE SCIENCE	3
		FINE ARTS	3
		BIOL 202	Human Genetics & Human Health 2
*One course must satisfy a World Cultures & Diversity requirement		MULTICULTURAL	3
		22	17
Program Requirements		Program Requirements	
Elective		1	Any unarticulated courses will be used to satisfy general elective credit
CSC 121	Computer Science I	4 CS 202 (elective)	Intro to Computer Science T
CSC 214	Java Programming	4 ECE 222	Intro to Digital Computation T
EGR 120	Engineering Graphics I	4 ME 102 (elective)	Computer-Aided Engineering Drawing T
EGR 265	Circuit Analysis	4 ECE 235 -and- 235L	Electric Circuits I w/Lab T
MTH 201	Calculus & Analytic Geometry II	5 MATH 250	Calculus II T
MTH 202	Calculus & Analytic Geometry III	5 MATH 251	Calculus III T
MTH 212	Differential Equations	3 MATH 305	Intro to Differential Equations T
PHY 201	General Physics I-Mech	5 PHYS 205A -and- 255A	University Physics w/Lab T
PHY 202	General Physics II	5 PHYS 205B -and- 255B	University Physics w/Lab T
		40	
		ECE 296 -and- 296L	Intro to Microcontrollers & Robotics w/Lab 4
		ECE 315	Mathematical Methods in ECE 4
		ECE 327 -and- 327L	Digital Circuit Design with HDL w/Lab 4
		ECE 336	Electric Circuits II 3
		ECE 345 -and- 345L	Electronics w/Lab 4
		ECE 355 -and- 355L	Signals & Systems w/Lab 4
		ECE 375	Intro to Electromagnetic Fields 3
		ECE 495E	EE Senior Design I 3
		ECE 495D	ECE Senior Design II 3
		ECE Technical Electives	Two out of the following: ECE 356 & ECE 356L, ECE 385 & ECE 385L, ECE 478. Other approved ECE technical electives by the School: ECE 3XX or 4XX level (except ECE 392, ECE 492 & ECE 493). At least 10 ECE hours not from ECE 412-435. 31
			63
Total semester hrs completed w/AES degree:		62	Total semester hrs completed w/BS degree: 80
		Total hours to BS Degree:	142
<i>Degree Plan updated on 7/17/24 by SG</i>			