PROGRAM ARTICULATION DEGREE PLAN					
Harper College	***2024-2025***		***Southern Illinois University Carbondale***		
Associate in Engineering Science - 62 hrs			BS Civil Engineering (CE) - 127 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	T
ENG 102	Composition	3	ENGL 102	English Composition II	T
MTH 200	Calculus & Analytic Geometry I	5	MATH 150	Calculus I	T
ECO 211	Microeconomics	3	ECON 240	Intro to Microeconomics	T
			SOCIAL SCIENCE		3
	IAI Humanities*	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
*Must satisfy a World Cultures & Diversity requirement			MULTICULTURAL		3
		22			**17**
Program Requirements			**Program Requirements**		
Engineering Specialty Course	Select from list of approved courses	2	**Any unarticulated courses will be used to satisfy general elective credit**		
CHM 122	General Chemistry II	5	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	T
CSC 121	Computer Science I	4	CS 202 (elective)	Intro to Computer Science	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: Mechanics	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
EGR 210	Analytical Mechanics: Statics	3	ENGR 250	Statics	T
EGR 211	Analytical Mechanics: Dynamics	3	ENGR 261	Dynamics	T
		40			
			ENGR 350A	Mechanics of Materials (lecture & lab)	3
			ENGR 351	Numerical Methods in Engineering	3
			ENGR 370A	Fluid Mechanics	3
			CE 251	Intro to Probability & Statistics for Engineering	1
			CE 263	Basic Surveying	3
			CE 301	Intro to Resource Sustainability in Civil & Environmental Engineering	2
			CE 310 -and- 310L	Environmental Engineering w/Lab	4
			CE 320 -and- 320L	Soil Mechanics w/Lab	4
			CE 330	Civil Engineering Materials	3
			CE 340	Structures	3
			CE 418	Water & Wastewater Treatment	3
			CE 421	Foundation Design	3
			CE 442	Structural Steel Design	3
			CE 444	Reinforced Concrete Design	3
			CE 474	Water Resources Engineering	3
			CE 495A	Civil Engineering Design	3
			CE 495B	Civil Engineering Design	3
			CE Technical Electives	Choose 12 hrs from CE 331 & CE 400-level courses	12
					62
Total semester hrs completed w/AES degree:		**62**	**Total semester hrs completed w/BS degree:**		**79**
			Total to BS Degree:		**141**