

PROGRAM ARTICULATION DEGREE PLAN					
<b>Harper College</b>		<b>2021-2022</b>		<b>Southern Illinois University Carbondale</b>	
Associate in Engineering Science - 62 hrs		BS Civil Engineering (CE) - 127 hrs			
			<b>University Core Curriculum (UCC) -39 hrs</b>	Capstone Option	
		<b>Hrs</b>			<b>Hrs</b>
			UNIV 101	Saluki Success	NA
ENG 101	Composition	3	ENGL 101	English Composition I	T
ENG 102	Composition	3	ENGL 102	English Composition II	T
			CMST 101	Intro:Oral Communication	3
MTH 200	Calculus I	5	MATH 150 (required for BS degree)	Calculus I	T
ECO 211	Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	T
			SOCIAL SCIENCE		3
PHI 115 or PHI 101	Ethics or Critical Thinking	3	PHIL 104 or PHIL 105	Ethics or Elementary Logic	T
			HUMANITIES		NA
CHM 121	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	T
PHY 201	General Physics I: Mechanics	5	PHYS 205A/255A (Required for BS degree)	University Physics/Lab	T
			FINE ARTS		3
			BIOL 202	Human Genetics and Human Health	2
			MULTICULTURAL		3
		<b>27</b>			<b>14</b>
<b>Program Requirements</b>		<b>Program Requirements</b>			
CHM 122	General Chemistry II	5	CHEM 210/211/212 (Required for BS degree)	General and Inorganic Chemistry/Lab/Workshop	T
CSC 121	Computer Science I	4	CS 202	Intro to Computer Science	T
MTH 201	Calculus II	5	MATH 250 (Required for BS degree)	Calculus II	T
MTH 202	Calculus III	5	MATH 251 (Required for BS degree)	Calculus III	T
MTH 212	Differential Equations	3	MATH 305 (Required for BS degree)	Introduction Differential Equations	T
PHY 202	General Physics II: Electricity & Magnetism	5	PHYS 205B/255B (Required for BS degree)	University Physics/Lab	T
EGR 210	Analytical Mechanics - Statics	3	ENGR 250 (Required for BS degree)	Statics	T
EGR 211	Analytical Mechanics - Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
EGR 212	Mechanics of Solids	3	ENGR 350C (Required for BS degree)	Mechanics of Materials (LECTURE only)	T
		<b>36</b>			
			CE 251	Probability & Statistics	1
			CE 263	Basic Surveying	3
			ENGR 350B	Mechanics of Materials Lab	1
			ENGR 351	Numerical Methods	3
			ENGR 370A	Fluid Mechanics	3
			CE 301	Intro to Sustainability	2
			CE 310/310L	Environmental Engineering/Lab	4
			CE 320-320L	Soil Mechanics/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 Electives	Choose 12 hrs from CE 331 and CE 400-level courses	12
					<b>60</b>
<b>Total semester hrs completed w/ AES degree:</b>		<b>63</b>	<b>Total semester hrs completed w/ BS degree:</b>		<b>74</b>
			<b>Total to BS Degree:</b>		<b>137</b>