

PROGRAM ARTICULATION DEGREE PLAN			
Kankakee Community College 2021-2022		Southern Illinois University Carbondale	
Associate in Engineering Science (AES) - 68+ hrs		BS Civil Engineering (CE) - 127 hrs	
		University Core Curriculum (UCC) - 41 hrs	
		Hrs	Hrs
		UCOL 101	Foundations of Inquiry
ENGL 1613	English I	3	ENGL 101
ENGL 1623	English II	3	ENGL 102
		CMST 101	Intro:Oral Communication
MATH 2515	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)
ECON 1563	Intro to Microeconomics	3	ECON 240 (Required for BS degree)
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE
	IAI HUMANITIES	3	HUMANITIES
			HUMANITIES
CHEM 1614	General Chemistry I	4	CHEM 200/201/202 (Required for BS degree)
PHYS 2614	Physics I	4	PHYS 205/255A (Required for BS degree)
	IAI FINE ARTS	3	FINE ARTS
BIOL 1503	Heredity and Society	3	BIOL 202 (Required for BS degree)
			MULTICULTURAL
		<b>34</b>	
			<b>6</b>
<b>Program Requirements</b>		<b>Program Requirements</b>	
CHEM 1624	General Chemistry II	4	CHEM 210/211/212 (Required for BS degree)
COSC 2613	Computer Programming for Science and Engineering	3	ENGR 222
MATH 2524	Calculus & Analytical Geometry II	4	MATH 250 (Required for BS degree)
MATH 2534	Calculus & Analytical Geometry III	4	MATH 251 (Required for BS degree)
MATH 2613	Differential Equations	3	MATH 305 (Required for BS degree)
PHYS 2624	Physics II	4	PHYS 205/255B (Required for BS degree)
PHYS 2634	Physics III	4	PHYS 205/255C
ENGR 2503	Statics	3	ENGR 250 (Required for BS degree)
ENGR 2523	Dynamics	3	ENGR 261 (Required for BS degree)
ENGR 2533	Mechanics of Materials	3	ENGR 350A (Required for BS degree)
		<b>35</b>	
		CE 251	Probability & Statistics
		CE 263	Basic Surveying
		CE 301	Intro to Sustainability
		CE 310/310L	Environmental Engineering/Lab
		CE 320/320L	Soil Mechanics/Lab
		CE 330	Civil Engineering Materials
		CE 340	Structures
		CE 418	Water & Wastewater Treatment
		CE 421	Foundation Design
		CE 442	Structural Steel Design
		CE 444	Reinforced Concrete Design
		CE 474	Water Resources Engineering
		CE 495A	Civil Engineering Design
		CE 495B	Civil Engineering Design
		ENGR 351	Numerical Methods
		ENGR 370A	Fluid Mechanics
		CE Electives	Choose 12 hrs from CE 331 and CE 400-level courses
			<b>59</b>
<b>Total semester hrs completed with AES degree:</b>		<b>69</b>	<b>Total semester hrs completed with BS degree:</b>
			<b>65</b>
		<b>Total to BS degree:</b>	<b>134</b>