

PROGRAM ARTICULATION DEGREE PLAN				
<b>Elgin Community College</b>	<b>2023-2024</b>		<b>Southern Illinois University Carbondale</b>	
Associate in Science - 60 hours			BS Civil Engineering (CE) - 127 hrs	
			<b>University Core Curriculum (UCC)*</b>	
		<b>Hrs</b>		<b>Hrs</b>
			UNIV 101	Saluki Success
ENG 101	English Composition I	3	ENGL 101	English Composition I
ENG 102	English Composition II	3	ENGL 102	English Composition II
CMS 101	Fundamentals of Speech	3	CMST 101	Intro to Oral Communication
MTH 190	Calculus with Analytic Geometry	5	MATH 150 (Required for BS degree)	Calculus I
ECN 201	Principles of Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics
	IAI Social Science	3	SOCIAL SCIENCE	See SIUC Equivalency Guide
	IAI Humanities	3	HUMANITIES	See SIUC Equivalency Guide
			HUMANITIES	NA
CHM 142	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop
PHY 211	Engineering Physics	5	PHYS 205A/255A (Required for BS degree)	University Physics/Lab
	IAI Fine Arts	3	FINE ARTS	T
BIO 113	Molecular & Cellular Biology	4	BIOL 202 (Required for BS degree)	Human Genetics and Human Health
			MULTICULTURAL	T
		<b>40</b>		<b>0</b>
			*Any AS degree from an accredited Illinois institution satisfies UCC requirements	
<b>Program Requirements</b>			<b>Program Requirements</b>	
CIS 121	Computer Science I	4	CS 202 (Elective)	Intro to Computer Science
MTH 210	Calculus with Analytic Geometry II	5	MATH 250 (Required for BS degree)	Calculus II
MTH 230	Calculus with Analytic Geometry II	5	MATH 251 (Required for BS degree)	Calculus III
MTH 250	Differential Equations	4	MATH 305 (Required for BS degree)	Introduction to Ordinary Differential Equations I
PHY 212	Engineering Physics II	5	PHYS 205B/255B (Required for BS degree)	University Physics/Lab
EGR 152	Statics	3	ENGR 250 (Required for BS degree)	Statics
EGR 252	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics
EGR 172	Mechanics of Materials	3	ENGR 350A (Required for BS degree)	Mechanics of Materials
		<b>32</b>		
			CE 251	Probability & Statistics
			CE 263	Basic Surveying
			CHEM 210	General and Inorganic Chemistry
			ENGR 351	Numerical Methods
			ENGR 370A	Fluid Mechanics
			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
			CE Electives	Choose 12 hrs from CE 331 and CE 400-level courses
				<b>62</b>
<b>Total semester hrs completed w/ AS degree:</b>		<b>72</b>	<b>Total semester hrs completed w/ BS degree:</b>	<b>62</b>
			<b>Total hrs to BS Degree:</b>	<b>134</b>