

PROGRAM ARTICULATION DEGREE PLAN				
Elgin Community College 2024-2025		Southern Illinois University Carbondale		
Associate in Engineering Science (AES) - 67 hours		BS Civil Engineering (CE) - 127 hrs		
		University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs		Hrs
			UNIV 101	Saluki Success
			CMST 101	Intro to Oral Communication
ENG 101	English Composition I	3	ENGL 101	English Composition I
ENG 102	English Composition II	3	ENGL 102	English Composition II
MTH 190	Calculus with Analytic Geometry I	5	MATH 150	Calculus I
ECN 201	Principles of Microeconomics	3	ECON 240	Intro to Microeconomics
	IAI Behavioral Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide
	IAI Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide
			HUMANITIES	
CHM 142	General Chemistry I	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab
	IAI Fine Arts	3	FINE ARTS	See SIUC Transfer Equivalency Guide
			BIOL 202	Human Genetics & Human Health
			MULTICULTURAL	
		28		8
Program Requirements		Program Requirements		
CHM 143	General Chemistry II	5	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab
EGR 152	Statics	3	ENGR 250	Statics
EGR 252	Dynamics	3	ENGR 261	Dynamics
MTH 123	Computer Science for Engineers	4	CS 202 (elective)	Intro to Computer Science
MTH 210	Calculus with Analytic Geometry II	5	MATH 250	Calculus II
MTH 230	Calculus with Analytic Geometry III	5	MATH 251	Calculus III
MTH 250	Differential Equations	4	MATH 305	Intro to Differential Equations
PHY 211	Engineering Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab
PHY 212	Engineering Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab
		39		
			ENGR 350A	Mechanics of Materials
			ENGR 351	Numerical Methods in Engineering
			ENGR 370A	Fluid Mechanics
			CE 251	Intro to Probability & Statistics for Engineering
			CE 263	Basic Surveying
			CE 301	Intro to Resource Sustainability in Civil & Environmental Engineering
			CE 310 -and- 310L	Environmental Engineering w/Lab
			CE 320 -and- 320L	Soil Mechanics w/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 Technical Electives	Choose 12 hrs from CE 331 & CE 400-level courses
				62
Total semester hrs completed w/AES degree:		67	Total semester hrs completed w/BS degree:	
			Total hrs to BS Degree:	
			137	
<i>Degree Plan updated on 7/16/24 by SG</i>				