

PROGRAM ARTICULATION DEGREE PLAN					
Elgin Community College 2023-2024			Southern Illinois University Carbondale		
Associate in Engineering Science - 60 hours			BS Civil Engineering (CE) - 127 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
ENG 101	English Composition I	3	ENGL 101	English Composition I	T
ENG 102	English Composition II	3	ENGL 102	English Composition II	T
			CMST 101	Intro to Oral Communication	3
MTH 190	Calculus with Analytic Geometry	5	MATH 150 (Required for BS degree)	Calculus I	T
ECN 201	Principles of Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	T
	IAI Behavioral Science	3	SOCIAL SCIENCE	See <i>SIUC Equivalency Guide</i>	T
	IAI Humanities	3	HUMANITIES	See <i>SIUC Equivalency Guide</i>	T
			HUMANITIES		NA
CHM 142	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	T
PHY 211	Engineering Physics	5	PHYS 205A/255A (Required for BS degree)	University Physics/Lab	T
	IAI Fine Arts	3	FINE ARTS	See <i>SIUC Equivalency Guide</i>	T
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
			MULTICULTURAL		3
		33			8
Program Requirements			Program Requirements		
CIS/MTH 123	Computer Science for Engineers	4	CS 202 (Elective)	Intro to Computer Science	T
MTH 210	Calculus with Analytic Geometry II	5	MATH 250 (Required for BS degree)	Calculus II	T
MTH 230	Calculus with Analytic Geometry II	5	MATH 251 (Required for BS degree)	Calculus III	T
MTH 250	Differential Equations	4	MATH 305 (Required for BS degree)	Introduction to Ordinary Differential Equations I	T
PHY 212	Engineering Physics II	5	PHYS 205B/255B (Required for BS degree)	University Physics/Lab	T
EGR 152	Statics	3	ENGR 250 (Required for BS degree)	Statics	T
EGR 252	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
EGR 172	Mechanics of Materials	3	ENGR 350A (Required for BS degree)	Mechanics of Materials	T
		32			
			CE 251	Probability & Statistics	1
			CE 263	Basic Surveying	3
			CHEM 210	General and Inorganic Chemistry	3
			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
					62
Total semester hrs completed w/ AES degree:		65	Total semester hrs completed w/ BS degree:		70
			Total hrs to BS Degree:		135