

PROGRAM ARTICULATION DEGREE PLAN					
Kaskaskia College		2022-2023	Southern Illinois University Carbondale		
AES - Pre-Engineering - 64 Hours			BS - Civil Engineering (CE) - 127 hrs		
		Hrs	UCC Capstone - 30 hrs		Hrs
			UNIV 101	Saluki Success	NA
SPCH 103	Fundamentals of Speech	3	CMST 101	Intro to Oral Communication	T
ENGL 101	English Composition I	3	ENGL 101	English Composition I	T
ENGL 102	English Composition II	3	ENGL 102	English Composition II	T
MATH 166	Calculus & Analytical Geometry I	5	MATH 150	Calculus I	T
ECON 206	Principles of Economics	3	ECON 240	Intro to Microeconomics	T
	IAI Social Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T
PHLE 120	Ethics	3	PHIL 104	Ethics	T
			HUMANITIES		NA
CHEM 111	Chemistry I (Inorganic Chemistry)	5	CHEM 200/201	Intro to Chemical Principles/Lab	T
			LIFE SCIENCE	Students take 2 physics courses	NA
	IAI Humanities/Fine Arts	3	FINE ARTS	See SIUC Transfer Equivalency Guide	T
			BIOL 202	Human Health and Genetics	2
			MULTICULTURAL		3
		31			5
Program Requirements			Program Requirements		
GEDR 103	General Engineering Drawing	3	ME 102 (elective)	Computer-Aided Engineering Drawing	T
MATH 210	Computer Programming for Engineers	3	ECE 222 (elective)	Intro to Digital Computation	T
MATH 267	Calculus & Analytical Geometry II	4	MATH 250 (Required for BS degree)	Calculus II	T
MATH 268	Calculus & Analytical Geometry III	4	MATH 251 (Required for BS degree)	Calculus III	T
MATH 269	Differential Equations	3	MATH 305 (Required for BS degree)	Intro to Differential Equations	T
PHYS 201	University Physics I	5	PHYS 205A, 255A (Required for BS degree)	University Physics w/Lab	T
PHYS 202	University Physics II	5	PHYS 205B, 255B (Required for BS degree)	University Physics w/Lab	T
PSCI 203	Statics	3	ENGR 250 (Required for BS degree)	Statics	T
PSCI 204	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
		33			
*Recommended course					
CHEM 112	Chemistry II Physical & Analytical	5	CHEM 210, 211 (Required for BS degree)	General & Inorganic Chemistry	3
PSCI 205*	Mechanics of Materials	3	ENGR 350A (Required for BS degree)	Mechanics of Materials	3
		38			
			ENGR 351	Numerical Methods in Engineering	3
			ENGR 370A	Fluid Mechanics	3
			CE 251	Intro to Probability & Statistics for Engineering	1
			CE 263	Basic Surveying	3
			CE 301	Intro to Resource Sustainability in Civil & Env Engr	2
			CE 310/L	Environmental Engineering w/Lab	4
			CE 320/L	Soil Mechanics w/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 Technical Electives	Choose 12 hrs from CE 331 and CE 400-level courses	12
					59
Total semester hrs completed w/AES degree:		64-67	Total semester hrs completed w/BS degree:		64-67
			Total hrs to BS degree:		134
Degree Plan updated on 11/29/22 by SW					