

PROGRAM ARTICULATION DEGREE PLAN					
Southwestern Illinois College	2024-2025	Southern Illinois University Carbondale			
Associate in Engineering Science Civil Engineering Specialty - 68 hrs		BS Civil Engineering (CE) - 127 hrs			
		University Core Curriculum (UCC) Capstone Option - 30 hrs			
		Hrs	Hrs		
COMM 151	Fundamentals of Public Speaking	3	UNIV 101	Saluki Success	NA
ENG 101	Rhetoric & Composition I	3	CMST 101	Intro:Oral Communication	T
ENG 102	Rhetoric & Composition II	3	ENGL 101	English Composition I	T
MATH 203	Calculus I	5	ENGL 102	English Composition II	T
ECON 202	Prin of Economics II Micro	3	MATH 150	Calculus I	T
	Social & Behavioral Sciences	3	ECON 240	Intro to Microeconomics	T
	Humanities	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T
			HUMANITIES	See SIUC Transfer Equivalency Guide	T
CHEM 105	General Chemistry I	5	HUMANITIES		NA
			CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
			LIFE SCIENCE		3
			FINE ARTS		3
HES 151	Personal Health & Wellness	2	PH 101	Foundations of Human Health	T
			MULTICULTURAL		3
		30			9
Program Requirements		Program Requirements			
CHEM 106 (elective)	General Chemistry II	5	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	T
ENGR 103	Engineering Graphics	4	EET 1XX (elective)	EET Tech Elective 100-level	T
ENGR 263	Analytical Mechanics-Statics	3	ENGR 250	Statics	T
ENGR 264	Analytical Mechanics-Dynamics	3	ENGR 261	Dynamics	T
ENGR 275	Mechanics of Solids	3	ENGR 350C (elective)	Mechanics of Materials (lecture only)	T
MATH 204	Calculus II	5	MATH 250	Calculus II	T
MATH 205	Calculus III	4	MATH 251	Calculus III	T
MATH 290	Differential Equations	3	MATH 305	Intro to Differential Equations	T
PHYS 204	Physics Mechanics	4	PHYS 205A -and- 255A	University Physics w/Lab	T
PHYS 205	Physics Heat Electricity Magnetism	4	PHYS 205B -and- 255B	University Physics w/Lab	T
		38			
			BIOL 202	Human Genetics & Human Health	2
			ENGR 350A	Mechanics of Materials (lecture & lab)	3
			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 & Environmental Engineering	2
			CE 310 -and- 310L	Environmental Engineering w/Lab	4
			CE 320 -and- 320L	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 & CE 400-level courses	12
					64
Total semester hrs completed w/AES degree:		68	Total semester hrs completed w/BS degree:		73
			Total hrs to BS Degree:		141
Degree Plan updated on 6/24/24 by SG					