

PROGRAM ARTICULATION DEGREE PLAN					
Southwestern Illinois College 2022-2023			Southern Illinois University Carbondale		
Associate in Engineering Science - 65 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	Foundations of Inquiry	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
			MATH 150 (Required for BS degree)	Calculus I	T
			ECON 240 (Required for BS degree)	Intro to Microeconomics	3
SOC 153	Introductory Sociology	3	SOC 108	Intro to Sociology	T
			HUMANITIES		3
			HUMANITIES		NA
PHYS 204	Engineering Physics: Mechanics	4	PHYS 205A/255A (Required for BS degree)	University Physics/Lab	T
			FINE ARTS		3
Human Well-Being Requirement	Select from: HES 130, 131, 151 or 152	2	BIOL 202 (Required for BS degree)*	Human Genetics and Human Health	2
HIST 286 -or- PHIL 155	History of Religion -or- Non-Western Philosophy	3	HIST 282 -or- PHIL 308I	American Religious Diversity -or- Asian Philosophy	T
		26			11
			*BIOL 202 or approved Life Science course required to fulfill BS degree requirements		
Program Requirements			Program Requirements		
CHEM 105	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	T
MATH 204	Calculus II	5	MATH 250 (Required for BS degree)	Calculus II	T
MATH 205	Calculus III	4	MATH 251 (Required for BS degree)	Calculus III	T
MATH 290	Differential Equations	3	MATH 305 (Required for BS degree)	Introduction to Ordinary Differential Equations I	T
PHYS 205	Engineering Physics: Heat,Elec,Magnt	4	PHYS 205B/255B (Required for BS degree)	University Physics/Lab	T
		21			
Civil Engineering Specialization					
CHEM 106	General Chemistry II	5	CHEM 210/211/212 (Required for BS degree)	General and Inorganic Chemistry/Lab/Workshop	T
ENGR 103	Engineering Graphics	4	ME 102	Computer-Aided Engineering Drawing	T
ENGR 251	Surveying	3	CE 263 (Required for BS degree)	Basic Surveying	T
ENGR 263	Analytical Mechanics-Statics	3	ENGR 250 (Required for BS degree)	Statics	T
ENGR 264	Analytical Mechanics-Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
ENGR 275	Mechanics of Solids	3	ENGR 350C (Required for BS degree)	Mechanics of Materials (LECTURE only)	T
		21			
			CE 251	Intro to Probability & Statistics for Engineers	1
			ENGR 350B	Mechanics of Materials (LAB only)	1
			ENGR 351	Numerical Methods	3
			CE 301	Intro: Resource Sustainability in Civil/Environmental Engine	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
			ENGR 370A	Fluid Mechanics	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	Hydraulic Engineering Design	3
			CE 495A	Civil Engineering Design	3
			CE 495B	Civil Engineering Design	3
			CE Electives	See dept. for approved list	12
					57
Total semester hrs completed w/ AES degree:		68	Total semester hrs completed w/ BS degree:		65
			Total hrs to BS Degree:		133