

PROGRAM ARTICULATION DEGREE PLAN								
Illinois Central College 2022-2023				Southern Illinois University Carbondale				
Associate in Engineering Science (AES) - 66 hrs				BS Civil Engineering (CE) - 127 hrs				
				University Core Curriculum (UCC) Capstone Option - 30 hrs				
		Hrs				Hrs		
ENGL 110	Composition I	3	UNIV 101	Saluki Success		NA		
			ENGL 101	English Composition I		T		
			ENGL 102	English Composition II		NA		
COMM 110 -or- COMM 212	Communication: Process & Practice -or- Public Speaking	3	CMST 101	Intro to Oral Communication		T		
MATH 222	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I		T		
ECON 111	Principles of Microeconomics	3	ECON 240	Intro to Microeconomics		T		
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE	(See SIUC transfer equivalency guide)		T		
	IAI HUMANITIES	3	HUMANITIES	(See SIUC transfer equivalency guide)		T		
			HUMANITIES			NA		
CHEM 130	General Chemistry	4	CHEM 200/201	Intro to Chemical Principles/Lab		T		
PHYS 211	Engineering Physics: Mechanics	4	PHYS 205/255A (Required for BS degree)	University Physics/Lab		T		
	IAI FINE ARTS	3	FINE ARTS	(See SIUC Equivalency Guide)		T		
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health		2		
			MULTICULTURAL			3		
		31				5		
Program Requirements				Program Requirements				
ENGR 113	Engineering Graphics/CAD	4	Any course not articulated will be used to satisfy general elective credit.					
PHYS 213	Engineering Physics: Thermodynamics	2						
ENGR 110	Intro to Engineering	1						
CHEM 132	General Chemistry	4	CHEM 210(Required for BS degree)	General and Inorganic Chemistry		T		
ENGR 253	Mechanics of Materials	3	ENGR 350C	Mechanics of Materials		T		
ENGR 251	Statics	3	ENGR 250 (Required for BS degree)	Statics		T		
ENGR 252	Dynamics	3	ENGR 261	Dynamics		T		
MATH 223	Calculus & Analytical Geometry II	4	MATH 250 (Required for BS degree)	Calculus II		T		
MATH 224	Calculus & Analytical Geometry III	4	MATH 251 (Required for BS degree)	Calculus III		T		
MATH 250	Differential Equations	3	MATH 305 (Required for BS degree)	Intro to Ordinary Differential Equations I		T		
PHYS 212	Engineering Physics: Electricity & Magnetism	4	PHYS 205/255B (Required for BS degree)	University Physics/Lab		T		
		35						
			CE 251	Probability & Statistics		1		
			CE 263	Basic Surveying		3		
			CE 301	Intro to Sustainability		2		
			CE 310/L	Environmental Engineering		4		
			CE 320/L	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		
			ENGR 350B	Mechanics of Materials Lab		1		
			ENGR 351	Numerical Methods		3		
			ENGR 370A	Fluid Mechanics		3		
			CE Electives	Choose 12 hrs from CE 331 and CE 400-level cou		12		
						60		
Total semester hrs completed with AES degree:		66	Total semester hrs completed w/ BS degree:			65		