

PROGRAM ARTICULATION DEGREE PLAN				
Waubonsee Community College	2024-2025		Southern Illinois University Carbondale	
Associate in Engineering Science (AES) - 60 hrs			BS Civil Engineering (CE) - 127 hrs	
			University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs		Hrs
			UNIV 101	Saluki Success
			CMST 101	Intro to Oral Communication
ENG 101	First-Year Composition I	3	ENGL 101	English Composition I
ENG 102	First-Year Composition II	3	ENGL 102	English Composition II
MTH 131	Calculus w/Analytic Geometry I	4	MATH 150	Calculus I
ECN 201	Principles of Microeconomics	3	ECON 240	Intro to Microeconomics
	IAI Social Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide
	*IAI Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide
			HUMANITIES	
CHM 121	General Chemistry	4	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab
PHY 221	General Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab
			LIFE SCIENCE	
	*IAI Fine Arts	3	FINE ARTS	
			BIOL 202	Human Genetics & Human Health
*One course satisfying degree requirements must have a Non-Western (N) -or- Diversity (D) emphasis.			MULTICULTURAL	
		31		11
Program Requirements			Program Requirements	
CHM 122 (elective)	Chemistry & Qualitative Analysis	4	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab
CIS 115	Intro to Programming	3	ITEC 209 (elective)	Intro to Programming
EGR 220	Analytical Mechanics - Statics	3	ENGR 250	Statics
EGR 230	Analytical Mechanics - Dynamics	3	ENGR 261	Dynamics
MTH 132	Calculus w/Analytic Geometry II	4	MATH 250	Calculus II
MTH 233	Calculus w/Analytic Geometry III	4	MATH 251	Calculus III
MTH 240	Differential Equations	3	MATH 305	Intro to Differential Equations
PHY 222	General Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab
		29		
			ENGR 350A	Mechanics of Materials
			ENGR 351	Numerical Methods in Engineering
			ENGR 370A	Fluid Mechanics
			CE 251	Intro to Probability & Statistics for Engineering
			CE 263	Basic Surveying
			CE 301	Intro to Resource Sustainability in Civil & Environmental Engineering
			CE 310 -and- 310L	Environmental Engineering w/Lab
			CE 320 -and- 320L	Soil Mechanics w/Lab
			CE 330	Civil Engineering Materials
			CE 340	Structures
			CE 418	Water & Wastewater Treatment
			CE 421	Foundation Design
			CE 442	Structural Steel Design
			CE 444	Reinforced Concrete Design
			CE 474	Water Resources Engineering
			CE 495A	Civil Engineering Design
			CE 495B	Civil Engineering Design
			CE Technical Electives	Choose 12 hrs from CE 331 & CE 400-level courses
				62
Total semester hrs completed with AES degree:		60	Total semester hrs completed with BS degree:	73
			Total to BS degree:	133
Degree Plan updated on 9/3/24 by SG				