PROGRAM ARTICULATION DEGREE PLAN					
Southeastern Illinois College 2022-2023			***Southern Illinois University Carbondale***		
Associate in Engineering Science (AES) - 65 hrs			BS Civil Engineering (CE) - 127 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
ENG 121	Rhetoric & Composition I	3	ENGL 101	English Composition I	T
ENG 122	Rhetoric & Composition II	3	ENGL 102	English Composition II	T
COM 121	Principles of Speaking	3	CMST 101	Intro to Oral Communication	T
MATH 162	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I	T
ECON 122	Intro to Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	T
PSYC 121	Intro to Psychology	3	PSYC 102	Intro to Psychology	T
PHIL 122	Fundamentals of Logic	3	PHIL 105	Elementary Logic	T
			HUMANITIES		NA
PHYS 221	General Physics I	5	PHYS 205A/255A (Required for BS degree)	University Physics/Lab	T
			LIFE SCIENCE		NA
IAI FINE ARTS	(See SIUC Equivalency Guide)	3	FINE ARTS		T
			BIOL 202 (Required for BS degree)*	Human Genetics and Human Health	2
			MULTICULTURAL		3
		31			**5**
			*BIOL 202 or approved Life Science course required to fulfill BS degree requirements		
Program Requirements			**Program Requirements**		
CHEM 121	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	**T**
CHEM 122	General Chemistry and Qualitative Analysis II	5	CHEM 210/211/212 (Required for BS degree)	General & Inorganic Chemistry/Lab/Workshop	T
GRAP 121	Engineering Graphics I	3	ME 102	Computer-Aided Engineering Graphics	T
MATH 165	Scientific Programming	3	ENGR 222	Computational Methods for Engineers & Technologists	T
MATH 221	Calculus & Analytical Geometry II	5	MATH 250 (Required for BS degree)	Calculus II	T
MATH 222	Calculus & Analytical Geometry III	5	MATH 251 (Required for BS degree)	Calculus III	T
MATH 225	Differential Equations	3	MATH 305 (Required for BS degree)	Intro to Ordinary Differential Equations I	T
PHYS 222	General Physics II	5	PHYS 205/255B (Required for BS degree)	University Physics/Lab	T
PHYS 241	Statics	3	ENGR 250 (Required for BS degree)	Statics	T
PHYS 242	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
		40			
			CE 251	Intro to Probability & Statistics for Engineers	1
			CE 263	Basic Surveying	3
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods	3
			CE 301	Intro: Resource Sustainability in Civil/Environmental Er	2
			CE 310/310L	Environmental Engineering/Lab	4
			CE 320/320L	Soil Mechanics/Lab	4
			CE 330	Civil Engineering Materials	4
			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
					63
Total semester hrs completed with AES degree:		**71**	**Total semester hrs completed with BS degree:**		**68**
			Total hrs to BS degree:		**139**