PROGRAM ARTICULATION DEGREE PLAN					
City Colleges of Chicago	***2023-2024***		***Southern Illinois University Carbondale***		
Associate in Engineering Science (AES) - 64 hrs			BS Civil Engineering (CE) - 127 hrs		
			University Core Curriculum (UCC) Capstone Option - 39 hrs		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
			CMST 101	Intro to Oral Communication	3
ENGLISH 101	English I	3	ENGL 101	English Composition I	T
ENGLISH 102	English II	3	ENGL 102	English Composition II	T
MATH 207	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I	T
ECON 202	Principles of Economics II	3	ECON 240 (Required for BS degree)	Microeconomics	T
			SOCIAL SCIENCE		3
HUMANITIES		3	HUMANITIES	*See SIUC Transfer Equivalency Guide*	T
			HUMANITIES		NA
CHEM 201	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	T
CHEM 203	General Chemistry II	5	CHEM 210/211/212 (Required for BS degree)	General & Inorganic Chemistry/Lab/Workshop	T
			FINE ARTS		3
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
			MULTICULTURAL		3
		27			**14**
Program Requirements			**Program Requirements**		
General Electives		2	**Any unarticulated courses will be used to satisfy general elective credit**		
ENGR 190-or- CIS 142	Computer Applications in Engineering -or-C++ Object Oriented Programming I	3	ENGR 222	Computational Methods for Engineers & Technologists	T
MATH 208	Calculus & Analytical Geometry II	5	MATH 250 (Required for BS degree)	Calculus II	T
MATH 209	Calculus & Analytical Geometry III	5	MATH 251 (Required for BS degree)	Calculus III	T
MATH 210	Differential Equations	3	MATH 305 (Required for BS degree)	Intro to Ordinary Differential Equations I	T
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5	PHYS 205/255A (Required for BS degree)	University Physics/Lab	T
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5	PHYS 205/255B (Required for BS degree)	University Physics/Lab	T
PHYSICS 215 (Recommended)	Statics	3	ENGR 250 (Required for BS degree)	Statics	T
PHYSICS 216 (Recommended)	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
PHYSICS 217 (Recommended)	Mechanics of Materials	3	ENGR 350A (Required for BS degree)	Mechanics of Materials	T
		37	CE 251	Intro to Probability & Statistics for Engineers	1
			CE 263	Basic Surveying	3
			CE 301	Intro to Resource Sustainability in Civil/Environmental Engineer	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 351	Numerical Methods	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
					59
Total semester hrs completed with AES degree:		**64**	**Total semester hrs completed with BS degree:**		**73**
Degree Plan updated on 7/27/2023 by RP			**Total hrs to BS degree:**		**137**