PROGRAM ARTICULATION DEGREE PLAN					
McHenry County College	***2022-2023***		***Southern Illinois University Carbondale***		
Associate in Engineering Science (AES) - 60 hrs			BS Civil Engineering (CE) - 127 hrs		
			University Core Curriculum (UCC) Capstone Option		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
			CMST 101	Intro to Oral Communication	3
ENG 151	Composition I	3	ENGL 101	English Composition I	T
ENG 152	Composition II	3	ENGL 102	English Composition II	T
MAT 175	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I	T
ECO 251*	Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	T
			SOCIAL SCIENCE		3
IAI HUMANITIES or FINE ARTS	(See SIUC Equivalency Guide)	3	HUMANITIES	(See SIUC Equivalency Guide)	T
			HUMANITIES		NA
CHM 165	General Chemistry I	5	CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/Lab	T
			LIFE SCIENCE	(Students take 2 Physical Science courses)	NA
			FINE ARTS		3
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
Non-Western Cultures w/in the US	(See SIUC Equivalency Guide)	3	MULTICULTURAL	(See SIUC Equivalency Guide)	T
		25			**11**
Program Requirements			**Program Requirements**		
CSC 121	Computer Science I	4	CS 202 (Not required for BS degree)	Intro to Computer Science	T
MAT 245	Calculus & Analytical Geometry II	5	MATH 250	Calculus II	T
MAT 255	Calculus & Analytical Geometry III	4	MATH 251	Calculus III	T
MAT 260	Differential Equations	3	MATH 305	Intro to Ordinary Differential Equations	T
PHY 291	Principles of Physics I	4	PHYS 205/255A	University Physics/Lab	T
PHY 292	Principles of Physics II	4	PHYS 205/255B	University Physics/Lab	T
EGR 251*	Statics	3	ENGR 250	Statics	T
EGR 252*	Dynamics	3	ENGR 261	Dynamics	T
CHM 166*	General Chemistry II	5	CHEM 210	General and Inorganic Chemistry	T
**Recommended to fulfill BS degree requirements*		**35**			
			CE 251	Intro to Probability & Statistics for Engineers	3
			CE 263	Basic Surveying	3
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods	3
			CE 301	Intro to Resource Sustainability	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
					64
Total semester hrs completed with AES degree:		**60**	**Total semester hrs completed with BS degree:**		**75**
Degree Plan updated on 12/9/2022 by LB			**Total semester hrs to BS degree:**		**135**