PROGRAM ARTICULATION DEGREE PLAN					
McHenry County College	***2019-2020***		***Southern Illinois University Carbondale***		
Associate in Engineering Science (AES) - 60 hrs			BS Electrical Engineering (EE) - 126 hrs		
			University Core Curriculum (UCC) Capstone Option		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
ENG 151	Composition I	3	ENGL 101	English Composition I	T
ENG 152	Composition II	3	ENGL 102	English Composition II	T
			CMST 101	Intro to Oral Communication	3
MAT 175	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I	T
IAI SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
			SOCIAL SCIENCE		3
IAI HUMANITIES	(See SIUC Equivalency Guide)	3	HUMANITIES	(See SIUC Equivalency Guide)	T
			HUMANITIES		NA
CHM 165	General Chemistry I	5	CHEM 200/201 (Fulfills BS degree requirement)	Intro to Chemical Principles/Lab	T
			LIFE SCIENCE, GRP II	(Students take 2 Physics courses)	NA
IAI FINE ARTS	(See SIUC Equivalency Guide)	3	FINE ARTS		T
			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
		28			**8**
Program Requirements			**Program Requirements**		
CSC 121	Computer Science I	4	CS 202 (not required for the 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
PHY 293*	Principle of Physics III	4	PHYS 305/355	Modern Physics/Lab	T
EGR 260*	Electrical Circuit Analysis	4	ECE 235/253L	Electric Circuits/Lab	T
		32			
***Recommended to fulfill BS degree requirements**					
			ECE 222	Introduction to Digital Computation	3
			ECE 296/296L	Software Tools for Engineers/Lab	4
			ECE 315	Mathematical Methods in ECE	4
			ECE 327/327L	Digital Circuit Design with HDL/Lab	4
			ECE 336	Electric Circuits II	3
			ECE 345/345L	Electronics/Lab	4
			ECE 355/355L	Signals & Systems/Lab	4
			ECE 356/356L	Linear Control Systems/Lab	4
			ECE 375/375L	Intro to Electromagnetic Fields/Lab	4
			ECE 385/385L	Electromechanical Energy Conversion/Lab	4
			ECE 495E	EE Senior Design I	3
			ECE 495D	ECE Senior Design II	3
			ECE Electives	Select 300/400 level ECE courses	16
			Approved Technical Electives	Select 300/400 level CS or 400 level MATH courses	6
			Science Elective & Lab	Satisfied by CHEM 200/201 or PHYS 305/355	NA
					66
Total semester hrs completed with AES degree:		**60**	**Total semester hrs completed with BS degree:**		**74**
Degree Plan created on 7/22/19 by MH			**Total semester hrs to BS degree:**		**134**