PROGRAM ARTICULATION DEGREE PLAN					
Elgin Community College	***2023-2024***		***Southern Illinois University Carbondale***		
Associate in Science (A.S.) - 60 hours			BS Biomedical Engineering (BME) - 126 hrs		
			University Core Curriculum (UCC)*		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
ENG 101	English Composition I	3	ENGL 101	English Composition I	T
ENG 102	English Composition II	3	ENGL 102	English Composition II	T
CMS 101	Fundamentals of Speech	3	CMST 101	Intro to Oral Communication	T
MTH 190	Calculus with Analytic Geometry	5	MATH 150 (Required for BS degree)	Calculus I	T
	IAI Behavioral Science	3	SOCIAL SCIENCE	*See SIU Transfer Equivalency Guide*	T
	IAI Social Science	3	SOCIAL SCIENCE	*See SIU Transfer Equivalency Guide*	T
	IAI Humanities	3	HUMANITIES	*See SIU Transfer Equivalency Guide*	T
			HUMANITIES		NA
PHY 211	Engineering Physics I	5	PHYS 205A/255A (Required for BS degree)	University Physics/Lab	T
PHY 212	Engineering Physics II	5	PHYS 205B/255B (Required for BS degree)	University Physics/Lab	T
	IAI Fine Arts	3	FINE ARTS	*See SIU Transfer Equivalency Guide*	T
BIO 113	Molecular & Cellular Biology	4	BIOL 211 (Required for BS degree)	Introductory Cell Biology and Genetics	T
			MULTICULTURAL		T
		40			**0**
			*Any AS degree from an accredited Illinois institution satisfies UCC requirements		
Program Requirements			**Program Requirements**		
MTH 210	Calculus with Analytic Geometry II	5	MATH 250 (Required for BS degree)	Calculus II	T
MTH 230	Calculus with Analytic Geometry III	5	MATH 251 (Required for BS degree)	Calculus III	T
MTH 250	Differential Equations	4	MATH 305 (Required for BS degree)	Introduction to Ordinary Differential Equations I	T
CHM 142	General Chemistry I	5	CHEM 200/201 (Required for BS degree)	General Chemistry I/Lab	T
Electives	See approved elective list	1	**Any course not articulated will be used to satisfy general elective credit**		
		20			
			PHSL 201/208	Human Physiology	4
			BME 101	Intro Biomedical Engineering	3
			BME 296/L	Intro Software Tools Robotics w/Lab	4
			BME 337	Bioelectricity	3
			BME 338/L	Biomedical Measurements w/Lab	4
			BME 351	Probability and Statistical Analysis for Engineers	3
			BME 438	Medical Instrumentation: Application and Design	3
			BME 495A	BME Senior Design I	3
			BME 495B	BME Senior Design II	3
			ECE 222	Intro to Digital Computation	3
			ECE 235/L	Electric Circuits I w/Lab	4
			ECE 355/L	Signals and Systems w/Lab	4
			Technical Electives	At least 5 courses from: BME 356, BME 356L, BME 417, BME 418, BME 485, BME 435, ECE 438, ECE 467, ECE 494, ECE 498. Other eligible Technical Electives: ECE 458, ECE 468, ECE 469, ECE 475, and at most 5 credit hours from the following: PHSL 301, PHSL 310, CHEM 210, CHEM 211, CHEM 340, CHEM 341, CHEM 350, CHEM 351, CHEM 442, CHEM 443.	24
					65
Total semester hrs completed w/ AS degree:		**60**	**Total semester hrs completed w/ BS degree:**		**65**
Degree Plan updated 8/8/2023 by SW			**Total hrs to BS Degree:**		**125**