PROGRAM ARTICULATION DEGREE PLAN					
Elgin Community College	2023-2024		Southern Illinois University Carbondale		
Associate in Engineering Science - 60 hours			BS Mechanical Engineering (ME) - 126 hrs		
			University Core Curriculum (UCC) Capstone	Option - 30 hrs	
					Hrs
			UNIV 101	Saluki Success	NA
ENG 101	English Composition I	3	ENGL 101	English Composition I	Т
ENG 102	English Composition II	3	ENGL 102	English Composition II	NA
CMS 101	Fundamentals of Speech	3	CMST 101	Intro to Oral Communication	Т
MTH 190	Calculus with Analytic Geometry	5	MATH 150 (Required for BS degree)	Calculus I	Т
ECN 201	Principles of Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	Т
	IAI Behavioral Science	3	SOCIAL SCIENCE	See SIUC Equivalency Guide	Т
	IAI Humanities	3	HUMANITIES	See SIUC Equivalency Guide	Т
			HUMANITIES		NA
			LIFE SCIENCE	Students take 2 physics courses	NA
PHY 211	Engineering Physics I	5	PHYS 205A/255A (Required for BS degree)	University Physics/Lab	Т
	IAI Fine Arts	3	FINE ARTS	See SIUC Equivalency Guide	Т
BIO 113	Molecular & Cellular Biology	4	BIOL 202 (Required for BS degree)	Human Genetics and Human Health	Т
			MULTICULTURAL		NA
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			Program Requirements		
CHM 142	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	Т
CHM 143	General Chemistry II	5	CHEM 210/211 (Required for BS degree)	General and Inorganic Chemistry	Т
MTH 210	Calculus with Analytic Geometry II	5	MATH 250 (Required for BS degree)	Calculus II	Т
MTH 230	Calculus with Analytic Geometry II	5	MATH 251 (Required for BS degree)	Calculus III	Т
MTH 250	Differential Equations	4	MATH 305 (Required for BS degree)	Introduction to Ordinary Differential Equations I	Т
EGR 152	Statics	3	ENGR 250 (Required for BS degree)	Statics	Т
EGR 252	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	Т
EGR 172	Mechanics of Materials	3	ENGR 350A (Required for BS degree)	Mechanics of Materials	Т
PHY 212	Engineering Physics II	5	PHYS 205B/255B (Required for BS degree)	University Physics/Lab	T
CIS/MTH 123	Computer Science for Engineers	4	CS 202 (Elective)	Intro to Computer Science	Т
		42			
			ME 102 (Required for BS degree)	Computer-Aided Engineering Drawing	2
			ENGR 222	Computational Methods for Engineers and Technologists	2
			ENGR 335	Electric Circuits	3
			ENGR 350B	Mechanics of Materials Lab	1
			ENGR 351	Numerical Methods	3
				Fiuld Mechanics	3
			ME 202		3
			ME 200		3
			ME 212	Meteriale Science Fundementale	3
				Naterials Science Fundamentals	3
				System Dynamics and Control	3 1
				Measuremente & Instrumentation	1
			ME 407	Measurements & Instrumentation	2
			ME 475	Machine Design L	3
			ME 4050	Mechanical Engineering Design	3
			ME 405R	Mechanical Engineering Design	3
			ME Electives	Choose from 400 level ME courses	3
					50
					39
Total semester hrs completed w/ AES de	aree:	77	Total semester hrs completed w/ BS dogroe	•	50
rotar semester m's completed w/ AES u			rotal semester ins completed w/ bo degree.	•	33
			Total hrs to BS Degree		136
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