

PROGRAM ARTICULATION DEGREE PLAN			
<i>Elgin Community College</i>	2023-2024	<i>Southern Illinois University Carbondale</i>	
Associate in Science - 60 hours		BS Mechanical Engineering (ME) - 126 hrs	
		University Core Curriculum (UCC)*	
			Hrs
		UNIV 101	Saluki Success
ENG 101	English Composition I	3	ENGL 101
			English Composition I
ENG 102	English Composition II	3	ENGL 102
			English Composition II
CMS 101	Fundamentals of Speech	3	CMST 101
			Intro to Oral Communication
MTH 190	Calculus with Analytic Geometry	5	MATH 150 (Required for BS degree)
			Calculus I
ECN 201	Principles of Microeconomics	3	ECON 240 (Required for BS degree)
			Intro to Microeconomics
	IAI Behavioral Science	3	SOCIAL SCIENCE
			See <i>SIUC Equivalency Guide</i>
	IAI Humanities	3	HUMANITIES
			See <i>SIUC Equivalency Guide</i>
			HUMANITIES
			NA
			LIFE SCIENCE
			Students take 2 physics courses
PHY 211	Engineering Physics	5	PHYS 205A/255A (Required for BS degree)
			University Physics/Lab
	IAI Fine Arts	3	FINE ARTS
			See <i>SIUC Equivalency Guide</i>
BIO 113	Molecular & Cellular Biology	4	BIOL 202 (Required for BS degree)
			Human Genetics and Human Health
			MULTICULTURAL
			NA
		35	0
			*Any AS degree from an accredited Illinois institution satisfies UCC requirements
Program Requirements			Program Requirements
CHM 142	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)
			Intro to Chemical Principles/Lab/Workshop
CHM 143	General Chemistry II	5	CHEM 210/211 (Required for BS degree)
			General and Inorganic Chemistry
MTH 210	Calculus with Analytic Geometry II	5	MATH 250 (Required for BS degree)
			Calculus II
MTH 230	Calculus with Analytic Geometry II	5	MATH 251 (Required for BS degree)
			Calculus III
MTH 250	Differential Equations	4	MATH 305 (Required for BS degree)
			Introduction to Ordinary Differential Equations I
EGR 152	Statics	3	ENGR 250 (Required for BS degree)
			Statics
EGR 252	Dynamics	3	ENGR 261 (Required for BS degree)
			Dynamics
EGR 172	Mechanics of Materials	3	ENGR 350A (Required for BS degree)
			Mechanics of Materials
PHY 212	Engineering Physics II	5	PHYS 205B/255B (Required for BS degree)
			University Physics/Lab
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			ME 102 (Required for BS degree)
			Computer-Aided Engineering Drawing
			ENGR 222
			Computational Methods for Engineers and Technologists
			ENGR 335
			Electric Circuits
			ENGR 350B
			Mechanics of Materials Lab
			ENGR 351
			Numerical Methods
			ENGR 370A
			Fluid Mechanics
			ME 300
			Engineering Thermodynamics II
			ME 302
			Engineering Heat Transfer
			ME 309
			Mechanical Analysis & Design
			ME 312
			Materials Science Fundamentals
			ME 336
			System Dynamics and Control
			ME 401
			Thermal Measurements Lab
			ME 407
			Measurements & Instrumentation
			ME 411
			Manufacturing Methods for Engineering Materials
			ME 475
			Machine Design I
			ME 495A
			Mechanical Engineering Design
			ME 495B
			Mechanical Engineering Design
			ME Electives
			Choose from 400 level ME courses
			59
Total semester hrs completed w/ AS degree:		73	Total semester hrs completed w/ BS degree:
			59
			Total hrs to BS Degree:
			132