

PROGRAM ARTICULATION DEGREE PLAN				
City Colleges of Chicago 2024-2025			Southern Illinois University Carbondale	
Associate in Engineering Science, Mechanical Engineering - 65 hrs			BS Mechanical Engineering (ME) - 126 hrs	
			University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs		Hrs
			UNIV 101	Saluki Success
			CMST 101	Intro to Oral Communication
ENGLISH 101	Composition	3	ENGL 101	English Composition I
ENGLISH 102	Composition II	3	ENGL 102	English Composition II
MATH 207	Calculus & Analytic Geometry I	5	MATH 150	Calculus I
ECON 202	Principles of Economics II	3	ECON 240	Intro to Microeconomics
			SOCIAL SCIENCE	
	Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide
			HUMANITIES	NA
CHEM 201	General Chemistry I	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab
			FINE ARTS	3
			BIOL 202	Human Genetics & Human Health
			MULTICULTURAL	3
		22		14
Program Requirements			Program Requirements	
CHEM 203	General Chemistry II	5	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab
ENGR 190	Computer Programming for Engineers	3	ENGR 222	Computational Methods for Engineers & Technologists
ENGR 225	Intro to Thermodynamics	3	ME 300	Engineering Thermodynamics I
MATH 208	Calculus & Analytic Geometry II	5	MATH 250	Calculus II
MATH 209	Calculus & Analytic Geometry III	5	MATH 251	Calculus III
MATH 210	Differential Equations	3	MATH 305	Intro to Ordinary Differential Equations I
PHYSICS 215	Statics	3	ENGR 250	Statics
PHYSICS 216	Dynamics	3	ENGR 261	Dynamics
PHYSICS 217	Mechanics of Materials	3	ENGR 350A	Mechanics of Materials
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5	PHYS 205A -and- 255A	University Physics w/Lab
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5	PHYS 205B -and- 255B	University Physics w/Lab
		43		
			ENGR 335	Electric Circuits I
			ENGR 351	Numerical Methods in Engineering
			ENGR 370A	Fluid Mechanics
			ME 102	Computer-Aided Engineering Drawing
			ME 302	Engineering Heat Transfer
			ME 309	Mechanical Analysis & Design
			ME 312	Materials Science Fundamentals
			ME 336	System Dynamics & 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
			Mechanical Engineering Electives	At least 12 credit hours must be from 400-level ME courses and 3 credit hours may be from IMAE 470A or a 400-level course used for a Math minor.
				15
				53
Total semester hrs completed with AES degree:		65	Total semester hrs completed with BS degree:	
			Total hrs to BS degree:	
			132	
<i>Degree Plan updated on 8/5/24 by SG</i>				