

PROGRAM ARTICULATION DEGREE PLAN					
McHenry County College 2024-2025			Southern Illinois University Carbondale		
Associate in Engineering Science (AES) - 62 hrs			BS Mechanical Engineering (ME) - 126 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs		Hrs	
			UNIV 101	Saluki Success	NA
			CMST 101	Intro to Oral Communication	3
ENG 151	Composition I	3	ENGL 101	English Composition I	T
ENG 152	Composition II	3	ENGL 102	English Composition II	T
MAT 175	Calculus & Analytical Geometry I	5	MATH 150	Calculus I	T
ECO 251	Microeconomics	3	ECON 240	Intro to Microeconomics	T
	IAI Social/Behavioral Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T
	IAI Humanities/Fine Arts	3	HUMANITIES	See SIUC Transfer Equivalency Guide	T
			HUMANITIES		NA
CHM 165	General Chemistry I	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
			LIFE SCIENCE		3
			FINE ARTS		3
			BIOL 202	Human Genetics & Human Health	2
	Non-Western Cultures w/in the US	3	MULTICULTURAL	See SIUC Transfer Equivalency Guide	T
		28			8
Program Requirements			Program Requirements		
Elective		2	Any unarticulated courses will be used to satisfy general elective credit		
Engineering Specialty		3			
MCC 101	The College Experience	1			
CSC 121	Computer Science I	4	CS 202 -or- ECE 222 (elective)	Intro to Computer Science -or- Intro to Digital Computation	T
EGR 260	Electric Circuits Analysis	4	ENGR 335	Electric Circuits I	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 Differential Equations	T
PHY 291	Principles of Physics I	4	PHYS 205A -and- 255A	University Physics w/Lab	T
PHY 292	Principles of Physics II	4	PHYS 205B -and- 255B	University Physics w/Lab	T
		34			
			CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	4
			Select 1 Course:	ENGR 222 -or- 296 -or- ME 222	2
			ENGR 250	Statics	3
			ENGR 261	Dynamics	3
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods in Engineering	3
			ENGR 370A	Fluid Mechanics	3
			ME 102	Computer-Aided Engineering Drawing	2
			ME 300	Engineering Thermodynamics I	3
			ME 302	Engineering Heat Transfer	3
			ME 309	Mechanical Analysis & Design	3
			ME 312	Materials Science Fundamentals	3
			ME 336	System Dynamics & Control	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Instrumentation	2
			ME 411	Manufacturing Methods for Engineering Materials	3
			ME 475	Machine Design I	3
			ME 495A	Mechanical Engineering Design	3
			ME 495B	Mechanical Engineering Design	3
			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
					68
			Total semester hrs completed with BS degree:		76
Total semester hrs completed with AES degree:		62	Total semester hrs to BS degree:		138
Degree Plan updated on 7/2/24 by SG					