

PROGRAM ARTICULATION DEGREE PLAN					
Shawnee Community College 2024-2025			Southern Illinois University Carbondale		
AS General - 64 hours			BS Mechanical Engineering (ME) - 126 hrs		
			University Core Curriculum (UCC) - 39 hrs*		
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
SPC 111	Speech	3	CMST 101	Intro to Oral Communication	T
ENG 111	English Composition I	3	ENGL 101	English Composition I	T
ENG 112	English Composition II	3	ENGL 102	English Composition II	T
MAT 209	Calculus I	5	MATH 150	Calculus I	T
ECO 212	Intro to Microeconomics	3	ECON 240	Intro to Microeconomics	T
	Social Sciences	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T
	Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide	T
			HUMANITIES		NA
CHE 114	Inorganic Chemistry I w/Lab	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
			LIFE SCIENCE		NA
	Fine Arts	3	FINE ARTS	See SIUC Transfer Equivalency Guide	T
			HUMAN HEALTH		NA
			MULTICULTURAL		NA
		31			0
			*An AS from a regionally accredited Illinois community college satisfies UCC requirements		
Program Requirements			Program Requirements		
Electives		7	Any unarticulated courses will be used to satisfy general elective credit		
CHE 115	Inorganic Chemistry-Qual Analysis	5	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	T
MAT 211	Calculus II	5	MATH 250	Calculus II	T
MAT 212	Calculus III	5	MATH 251	Calculus III	T
MAT 213	Ordinary Differential Equations I	3	MATH 305	Intro to Differential Equations	T
PHY 216	University Physics I	4	PHYS 205A -and- 255A	University Physics w/Lab	T
PHY 217	University Physics II	4	PHYS 205B -and- 255B	University Physics w/Lab	T
		33			
			BIOL 202	Human Genetics & Human Health	2
			Select 1 Course:	ENGR 222 -or- ENGR 296 -or- ME 222	2
			ENGR 250	Statics	3
			ENGR 261	Dynamics	3
			ENGR 335	Electric Circuits I	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 ME hrs at 400 level and 3 hrs from either IMAE 470A -or- 400-level course used for a Math minor	15
					69
Total semester hrs completed w/AS degree:		64	Total semester hrs completed w/BS degree:		69
			Total semester hrs to BS degree:		133
Degree Plan updated on 9/4/24 by SG					