

PROGRAM ARTICULATION DEGREE PLAN			
Harper College	2024-2025	Southern Illinois University Carbondale	
Associate in Engineering Science - 64 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
ENG 101	Composition	ENGL 101	English Composition I
ENG 102	Composition	ENGL 102	English Composition II
MTH 200	Calculus & Analytic Geometry I	MATH 150	Calculus I
ECO 211	Microeconomics	ECON 240	Intro to Microeconomics
		SOCIAL SCIENCE	
	IAI Humanities*	HUMANITIES	See SIUC Transfer Equivalency Guide
		HUMANITIES	
CHM 121	General Chemistry I	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab
		LIFE SCIENCE	
		FINE ARTS	
		BIOL 202	Human Genetics & Human Health
	*Must satisfy a World Cultures & Diversity requirement	MULTICULTURAL	
		22	17
Program Requirements		Program Requirements	
CHM 122	General Chemistry II	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab
CSC 121	Computer Science I	CS 202 (elective)	Intro to Computer Science
EGR 120	Engineering Graphics I (CAD)	ME 102	Computer-Aided Engineering Drawing
EGR 210	Analytical Mechanics: Statics	ENGR 250	Statics
EGR 211	Engineering Dynamics	ENGR 261	Dynamics
MTH 201	Calculus & Analytic Geometry II	MATH 250	Calculus II
MTH 202	Calculus & Analytic Geometry III	MATH 251	Calculus III
MTH 212	Differential Equations	MATH 305	Intro to Differential Equations
PHY 201	General Physics I: Mechanics	PHYS 205A -and- 255A	University Physics w/Lab
PHY 202	General Physics II	PHYS 205B -and- 255B	University Physics w/Lab
		42	
		Select 1 Course:	ENGR 222 -or- 296 -or- ME 222
		ENGR 335	Electric Circuits I
		ENGR 350A	Mechanics of Materials
		ENGR 351	Numerical Methods in Engineering
		ENGR 370A	Fluid Mechanics
		ME 300	Engineering Thermodynamics I
		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
			15
			59
Total semester hrs completed w/AES degree:		64	Total semester hrs completed with BS degree:
			76
Degree Plan updated on 7/9/24 by SG		Total semester hrs to BS degree:	
			140