

PROGRAM ARTICULATION DEGREE PLAN			
Oakton College		Southern Illinois University Carbondale	
2024-2025		BS Mechanical Engineering (ME) - 126 hrs	
Associate of Science in Engineering (ASE) - 64 hrs		University Core Curriculum (UCC) CAPSTONE OPTION - 30 hrs	
	Hrs		Hrs
		UNIV 101	Saluki Success
		CMST 101	Intro to Oral Communication
EGL 101	Composition I	ENGL 101	English Composition I
EGL 102	Composition II	ENGL 102	English Composition II
MAT 250	Calculus I	MATH 150	Calculus I
ECO 202	Principles of Microeconomics	ECON 240	Intro to Microeconomics
	IAI SOCIAL/BEHAVIORAL SCIENCE*	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide
	IAI FINE ARTS/HUMANITIES*	HUMANITIES	See SIUC Transfer Equivalency Guide
CHM 121	General College Chemistry I	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab
		LIFE SCIENCE	
		FINE ARTS	
		BIOL 202	Human Genetics & Human Health
		MULTICULTURAL	
	24		14
*Student must choose courses that fulfill both the Global Studies and U.S. Diversity Studies requirements			
Program Requirements		Program Requirements	
CHM 122	General College Chemistry II	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab
CSC 170	Intro to Numerical Methods	ITEC 1XX -or- IMAE 1XX (elective)	ITEC Tech Elective 100-level -or- IMAE Tech Elective 100-level
CSC 171, 173 -or- 174	C++, Java -or- Python Programming for Engineers	ITEC 1XX -or- IMAE 1XX (elective)	ITEC Tech Elective 100-level -or- IMAE Tech Elective 100-level
ENG 120	Engineering Graphics	ME 102	Computer-Aided Engineering Drawing
ENG 211	Analytic Mechanics (Statics)	ENGR 250	Statics
ENG 212	Analytic Mechanics (Dynamics)	ENGR 261	Dynamics
ENG 217	Strength of Materials	ENGR 350C (elective)	Mechanics of Materials (lecture only)
MAT 251	Calculus II	MATH 250	Calculus II
MAT 252	Calculus III	MATH 251	Calculus III
MAT 262	Ordinary Differential Equations	MATH 305	Intro to Differential Equations
PHY 221	General Physics I	PHYS 205A -and- 255A	University Physics w/Lab
PHY 222	General Physics II	PHYS 205B -and- 255B	University Physics w/Lab
	40		
		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 470A or a 400-level course used for a Math minor.
			15
			59
Total semester hrs completed with ASE degree:	64	Total semester hrs completed w/BS degree:	73
		Total hrs to BS degree:	137
Degree Plan updated on 8/6/24 by SG			