PROGRAM ARTICULATION DEGREE PLAN					
Waubonsee Community College	***2024-2025***		***Southern Illinois University Carbondale***		
Associate in Engineering Science (AES) - 61 hours			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 101	First-Year Composition I	3	ENGL 101	English Composition I	T
ENG 102	First-Year Composition II	3	ENGL 102	English Composition II	T
MTH 131	Calculus w/Analytic Geometry I	4	MATH 150	Calculus I	T
ECN 201	Prin of Microeconomics	3	ECON 240	Intro to Microeconomics	T
			SOCIAL SCIENCE		3
	IAI Humanities*	3	HUMANITIES	*See SIUC Transfer Equivalency Guide*	T
			HUMANITIES		NA
CHM 121	General Chemistry	4	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
			LIFE SCIENCE		3
	IAI Fine Arts*	3	FINE ARTS	*See SIUC Transfer Equivalency Guide*	T
			BIOL 202	Human Genetics & Human Health	2
			MULTICULTURAL		3
		23			**14**
**One course must have a non-Western -or- diversity emphasis*					
Program Requirements			**Program Requirements**		
EGR 101	Engineering Graphics	4	**Any courses not articulated will be used to satisfy general elective credit**		
CHM 122 (elective)	Chemistry/Qualitative Analysis	4	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	T
CIS 115	Intro to Programming	3	ITEC 209 (elective)	Intro to Programming	T
EGR 220	Analytical Mech-Statics	3	ENGR 250	Statics	T
EGR 230	Analytical Mech-Dynamics	3	ENGR 261	Dynamics	T
MTH 132	Calculus w/Analytic Geometry II	4	MATH 250	Calculus II	T
MTH 233	Calculus w/Analytic Geometry III	4	MATH 251	Calculus III	T
MTH 240	Differential Equations	3	MATH 305	Intro to Differential Equations	T
PHY 221	General Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab	T
PHY 222	General Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab	T
		38			
			Select 1 Course:	ENGR 222 -or- 296 -or- ME 222	2
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods in Engineering	3
			ENGR 335	Electric Circuits I	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
					61
Total semester hrs completed w/AES degree:		**61**	**Total semester hrs completed w/BS degree:**		**75**
			Total semester hrs to BS degree:		**136**
Degree Plan updated on 9/10/24 by SG					