PROGRAM ARTICULATION DEGREE PLAN					
John A. Logan College	***2024-2025***		***Southern Illinois University Carbondale***		
Associate in Engineering Science - Mechanical Engineering - 71 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 101	English Composition I	3	ENGL 101	English Composition I	T
ENG 102	English Composition II	3	ENGL 102	English Composition II	T
MAT 131	Calculus I	5	MATH 150	Calculus I	T
ECO 202	Intro to Microeconomics	3	ECON 240	Intro to Microeconomics	T
	IAI Social Science	3	SOCIAL SCIENCE	*See SIUC Transfer Equivalency Guide*	T
	IAI Humanities (IAI Elective)	3	HUMANITIES	*See SIUC Transfer Equivalency Guide*	T
			HUMANITIES		NA
CHM 151	Chemical Principles	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
	IAI Life Science	3	LIFE SCIENCE	*See SIUC Transfer Equivalency Guide*	T
			FINE ARTS		3
			BIOL 202	Human Genetics & Human Health	2
			MULTICULTURAL		3
		28			**11**
Program Requirements			**Program Requirements**		
ORI 100 -or- SCI 100	College 101 -or- STEM Fundamentals	1	**Any unarticulated courses will be used to satisfy general elective credit**		
CHM 152	Chemical Principles w/Qualitative Analysis	5	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	T
EGR 101	Engineering Graphics	3	ME 102	Computer-Aided Engineering Drawing	T
MAT 201	Calculus II	5	MATH 250	Calculus II	T
MAT 202	Calculus III	3	MATH 251	Calculus III	T
MAT 205	Differential Equations	3	MATH 305	Intro to Differential Equations	T
PHY 201	Statics	3	ENGR 250	Statics	T
PHY 202	Dynamics	3	ENGR 261	Dynamics	T
PHY 203	Mechanics of Materials	3	ENGR 350A	Mechanics of Materials	T
PHY 205	University Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab	T
PHY 206	University Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab	T
PHY 224	Intro to Circuit Analysis w/Lab	4	ENGR 335	Electric Circuits I	T
		43			
			Select 1 Course:	ENGR 222 -or- 296 -or- ME 222	2
			ENGR 351	Numerical Methods in Engineering	3
			ENGR 370A	Fluid Mechanics	3
			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
					53
Total semester hrs completed w/AES degree:		**71**	**Total semester hrs completed w/BS degree:**		**64**
			Total hrs to BS Degree:		**135**
Degree Plan updated on 7/17/24 by SG					