

PROGRAM ARTICULATION DEGREE PLAN				
John A. Logan College 2021-2022		Southern Illinois University Carbondale		
Associate in Engineering Science - Mechanical Engineering- 67 hrs		BS Mechanical Engineering (ME) - 126 hrs		
		University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs	Hrs	
ORI 100	College 101	1	UNIV 101 Saluki Success	NA
ENG 101	English Composition I	3	ENGL 101 English Composition I	T
ENG 102	English Composition II	3	ENGL 102 English Composition II	T
COM 115	Speech	3	CMST 101 Intro to Oral Communication	T
MAT 131	Calculus I	5	MATH 150 (Required for BS degree) Calculus I	T
ECO 202	Intro to Microeconomics	3	ECON 240 (Required for BS degree) Intro to Microeconomics	T
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE See SIUC Equivalency Guide	T
			HUMANITIES	3
			HUMANITIES	NA
CHM 151	Chemical Principles	5	CHEM 200/201/202 (Required for BS degree) Intro to Chemical Principles/Lab/Workshop	T
PHY 205	University Physics I	5	PHYS 205A/255A (Required for BS degree) University Physics/Lab	T
			FINE ARTS	3
			BIOL 202 (Required for BS degree) Human Genetics and Human Health	2
			MULTICULTURAL	3
		31		11
Any additional courses may be taken at John A Logan College provided they are IAI designated courses or have been articulated to meet a category within the University Core Curriculum.				
Program Requirements		Program Requirements		
CHEM 152	Chem Principles w/ Qualitative Analysis	5	CHEM 210/211 (Required for BS degree) General and Inorganic Chemistry	T
EGR 101	Engineering Graphics	3	ME 102 (Required for BS degree) Computer-Aided Engineering Drawing	T
MAT 201	Calculus II	5	MATH 250 (Required for BS degree) Calculus II	T
MAT 202	Calculus III	3	MATH 251 (Required for BS degree) Calculus III	T
MAT 205	Differential Equations	3	MATH 305 (Required for BS degree) Introduction to Ordinary Differential Equations I	T
PHY 201	Statics	3	ENGR 250 (Required for BS degree) Statics	T
PHY 202	Dynamics	3	ENGR 261 (Required for BS degree) Dynamics	T
PHY 203	Mechanics of Materials	3	ENGR 350A (Required for BS degree) Mechanics of Materials	T
PHY 206	University Physics II	5	PHYS 205B/255B (Required for BS degree) University Physics/Lab	T
PHY 214	Intro to Circuit Analysis	3	ENGR 335 (Required for BS degree) Electric Circuits	T
		36		
			ENGR 222 Computational Methods for Engineers and Technologists	2
			ENGR 351 Numerical Methods	3
			ENGR 370A Fluid Mechanics	3
			ME 300 Engineering Thermodynamics II	3
			ME 302 Engineering Heat Transfer	3
			ME 309 Mechanical Analysis & Design	3
			ME 312 Materials Science Fundamentals	3
			ME 336 System Dynamics and 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
			ME Electives Choose from 400 level ME courses	15
				53
Total semester hrs completed w/ AES degree:		67	Total semester hrs completed w/ BS degree:	64
Degree Plan created on 2/14/2022 by SW		Total hrs to BS Degree:		131