

PROGRAM ARTICULATION DEGREE PLAN					
John A. Logan College 2022-2023			Southern Illinois University Carbondale		
AAS Welding Technology - 65 Hours			BS Industrial Management and Applied Engineering Quality Management Specialization- 120 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs		Hrs	
ORI 101	College 101	1	UNIV 101	Saluki Success	NA
COM 115	Speech	3	CMST 101	Intro to Oral Communication	T
ENG 101	English Composition I	3	ENGL 101	English Composition I	T
			ENGL 102		NA
MAT 108	College Algebra	4	MATH 108 (Required for BS degree)	College Algebra	T
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE	See SIUC Equivalency Guide	T
			SOCIAL SCIENCE		3
	IAI HUMANITIES	3	HUMANITIES	See SIUC Equivalency Guide	T
			PHYS 203/253A (Required for BS degree)	College Physics/Lab	4
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		17			16
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		
CMG 107	Construction Document Interpretation	3	The AAS degree in Welding Technology as articulated fulfills the 22 hours of technical electives required for the BS degree in Industrial Management and Applied Engineering (IMAE).		
DRT 185	Computer Graphics I	2			
IND 201	Metallurgy	2			
IDM 210	Hydraulics & Pneumatics	3			
MAC 200	Machine Tool Laboratory	4			
MAC 180	Blueprint Reading	3			
WEL 120	OXYFUEL Welding, Cutting & Brazing	3			
WEL 121	SMAW(STICK) Plate Welding I	3			
WEL 122	GMAW (MIG) Plate Welding	3			
WEL 123	SMAW (Stick) Plate Welding II	3			
WEL 124	GTAW (TIG) Plate Welding I	3			
WEL 125	Weld Testing and Inspection	4			
WEL 126	SMAW (Stick) Welding III	3			
WEL 127	Welding & Metal Fabrication	3			
WEL 128	Pipe Welding	4			
WEL 129	GTAW (TIG) Welding II	3			
		49			
			PHYS 203/253B	College Physics/Lab	4
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calculus for Technology -or- Short Course in Calculus	3-4
			IMAE 340 -or- PSYC 323*	Intro to Supervision -or- Organizational Psychology	3
			IMAE 375	Production and Inventory Management	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Planning & Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated Manufacturing	3
			IMAE 450	Project Management	3
			IMAE 465	Lean Manufacturing	3
			IMAE 470A	Six Sigma Green Belt I	3
			IMAE 470B	Six Sigma Green Belt II	3
			IMAE 476	Supply Chain Design & Strategy	3
			IMAE Electives	(Must be at 300/400 level)	6
					55-56
Total semester hrs completed w/ AAS degree		66	Total semester hrs completed w/ BS degree		71-72
			Total hours to BS degree:		137-138
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		
Degree Plan created on 4/26/2022 by LB					