

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 <i>SIUC Equivalency Guide</i>	T
			SOCIAL SCIENCE		3
	IAI HUMANITIES	3	HUMANITIES	See <i>SIUC Equivalency Guide</i>	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	<p align="center">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).</p>		
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