

PROGRAM ARTICULATION DEGREE PLAN			
Southwestern Illinois College 2023-2024		Southern Illinois University Carbondale	
AAS Welding - 65 hours		BS Industrial Management and Applied Engineering Quality Management Specialization - 120 hrs	
		University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs	Hrs
			UNIV 101 Saluki Success NA
			CMST 101 Intro:Oral Communication 3
ENG 101	Rhetoric & Composition	3	ENGL 101 English Composition I T
			ENGL 102 English Composition II NA
MATH 112	College Algebra	4	MATH 108 (Required for BS degree) College Algebra T
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE See SIUC Transfer Equivalency Guide T
			SOCIAL SCIENCE 3
	IAI HUMANITIES	3	HUMANITIES See SIUC Transfer Equivalency Guide T
			HUMANITIES NA
			LIFE SCIENCE 3
			PHYS 203/253A (Required for BS degree) College Physics/Lab 4
			PHYS 203/253B (Required for BS degree) College Physics/Lab 4
			FINE ARTS 3
			HUMAN HEALTH NA
			MULTICULTURAL 3
		13	23
Program Requirements		Program Requirements	
HES 152	First Aid Medical Self Help	2	The AAS degree in Welding as articulated fulfills the 22 hours of technical electives required for a BS in Industrial Management and Applied Engineering.
WLDT 100	Welding Technology Orientation	0.5	
WLDT 101	Introduction to Welding	5	
WLDT 102	Principles of Welding	4.5	
WLDT 106	Weld Fabrication Blueprint Reading	3	
WLDT 152	All Position Arc Welding	5	
WLDT 201	Advanced Arc Welding	6	
WLDT 251 OR WLDT 252	Structural Fabrication Welding OR Pipe Welding	4	
WLDT 253	GTAW/GMAW/FCAW/PAC	4	
WLDT 254 OR WLDT 256	Tstg & Insp of Welds OR Qual&Cert Proc-Weld Insp	3	
WLDT 255	Layout & Fitup for Welders	3	
WLDT 260	Welding Automation	5	
WLDT 107	Advanced Blueprint Reading	2	
WLDT 270	Robotic Welding & CNC Cutting	5	
		52	
			IMAE 110 Geometric Dimensioning & Tolerancing 3
			IMAE 208 Fundamentals of Manufacturing Processes 3
			IMAE 305 Industrial Safety 3
			IMAE 307 or MATH 140 Appl Calc for Tech -or- Short Course in Calculus 3-4
			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 Management 3
			IMAE 340 -or- PSYC 323 Intro to Supervision/Organizational Psychology 3
			IMAE Electives (Must be at 300/400 level) 6
			51-52
Total semester hrs completed w/ AAS degree		65	Total semester hrs completed w/ BS degree
			74-75
			Total hours to BS degree:
			139-140
Degree Plan created by SW 3/28/2023		* Note: PSYC 323 instead of IMAE 340 is an option for on-campus students only	