

PROGRAM ARTICULATION DEGREE PLAN								
Sauk Valley Community College 2024-2025		Southern Illinois University Carbondale						
AAS Multicraft Technology Welding Emphasis - 60 hours		BS Industrial Management & Applied Engineering - 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	Composition I	3	ENGL 101	English Composition I	T			
			ENGL 102	English Composition II	NA			
			MATH 108	College Algebra	3			
	IAI Social/Behavioral Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T			
			SOCIAL SCIENCE		3			
	IAI Humanities/Fine Arts	3	HUMANITIES	See SIUC Transfer Equivalency Guide	T			
			HUMANITIES		NA			
			LIFE SCIENCE		3			
PHY 175	Intro to Physics	4	PHYS 203A -and- 253A	College Physics w/Lab	T			
			FINE ARTS		3			
			HUMAN HEALTH		NA			
			MULTICULTURAL		3			
		13			18			
Program Requirements			Program Requirements					
FYE 101	First Year Experience	1	The AAS degree in Multicraft Technology Welding Emphasis as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).					
IND 218	Fluid Power	3						
IND 219	Industrial Troubleshooting	3						
IND 250	Industrial Internship	1						
WLD 101	Industrial MIG Welding	2						
WLD 102 -or- 103	Shielded Metal Arc Welding -or- MIG Welding	3						
WLD 106	Welding Fundamentals	2						
Welding Emphasis	Select from list of approved WLD Courses	9						
EET 245	Programmable Controllers	3				EET 2XX (elective)	EET Tech Elective 200-level	T
EET 261	Adv Programmable Controllers	3				EET 2XX (elective)	EET Tech Elective 200-level	T
ELT 120	Fund of Elec w/Applied Math	3				EET 1XX (elective)	EET Tech Elective 100-level	T
ELT 259	Industrial & Agric Wiring	3				IMAE 2XX (elective)	IMAE Tech Elective 200-level	T
ELT 262	Electrical Controls	3				EET 2XX (elective)	EET Tech Elective 200-level	T
ENG 111	Bus/Technical Communication	3				MGMT 202 (elective)	Business Communications	T
IND 108	Intro to CAD	2				IMAE 105 (elective)	Computer-Aided Drafting	T
IND 118	Mechanical Systems	3	IMAE 1XX (elective)	IMAE Tech Elective 100-level	T			
		47						
			PHYS 203B -and- 253B	College Physics w/Lab	4			
			IMAE 110	Geometric Dimensioning & Tolerancing	3			
			IMAE 208	Fundamentals of Manufacturing Processes	3			
			IMAE 305	Industrial Safety	3			
			IMAE 307	Applied Calc for Tech	3			
			IMAE 340	Intro to Supervision	3			
			IMAE 375	Production & 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 Elective	300/400 level	3			
					52			
Total semester hrs completed w/AAS degree:		60	Total semester hrs completed w/BS degree:		70			
			Total hours to BS degree:		130			
Degree Plan updated on 5/29/24 by SG								