

PROGRAM ARTICULATION DEGREE PLAN								
Sauk Valley Community College 2023-2024		Southern Illinois University Carbondale						
AAS Multicraft Technology - 61 hours		BS Industrial Management and Applied Engineering Quality Management Specialization - 134-345 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			
	IAI Social Science	3	MATH 108	College Algebra	3			
			SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T			
	IAI Humanities	3	SOCIAL SCIENCE		3			
			HUMANITIES	See SIUC Transfer Equivalency Guide	T			
			HUMANITIES		NA			
			LIFE SCIENCE		3			
PHY 201 (recommended)	General Physics I*	5	PHYS 203/253A (Required for BS degree)	College Physics/Lab	T			
			PHYS 203/253B (Required for BS degree)	College Physics/Lab	4			
			FINE ARTS		3			
			HUMAN HEALTH		NA			
			MULTICULTURAL		3			
*Please see SVCC advisor for a substitution form		14			22			
Program Requirements			Program Requirements					
FYE 101	First Year Experience	1	The AAS degree in Multicraft Technology as articulated fulfills the 22 hours of technical electives required for a BS in Industrial Management and Applied Engineering.					
ENG 111	Bus/Technical Communication	3						
EET 245	Programmable Controllers	3						
EET 261	Adv Programmable Controllers	3						
ELT 120	Fund of Elec w/ Applied Math	3						
ELT 259	Industrial and Agric Wiring	3						
ELT 262	Electrical Controls	3						
IND 108	Introduction to CAD	2						
IND 118	Mechanical Systems	3						
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						
Choose 9 hours from One Area of Emphasis Electives		9						
		47						
Electrical Emphasis Electives								
ELT 101	Electrical Wiring	3						
ELT 261	National Electric Code	3						
ENE 130	Photovoltaics	3						
HVAC Emphasis Electives								
HRS 114	Sheet Metal Fabrication	3						
HRS 120	Basic Refrigeration	3						
HRS 130	Basic Heating	3						
Machining & CNC Emphasis Electives (Choose 9 hours)								
IND 125	Machining & Manufacturing Proc	3						
IND 203	Advanced Machining & Manufacturing Proc	3						
IND 207	Computer Numerical Cont Prog I	3						
IND 208	Comp Numerical Control Prog II	3						
Welding Emphasis Electives								
WLD 102 or 103	Shielded Metal Arc Welding or MIG Welding	3						
WLD 104	TIG Welding	3						
WLD 140	Robotic Welding	3						
			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		61	Total semester hrs completed w/ BS degree		73-74			
			Total hours to BS degree:		134-135			
			* Note: PSYC 323 instead of IMAE 340 is an option for on-campus students only					