

PROGRAM ARTICULATION DEGREE PLAN					
Waubonsee Community College 2022-2023				Southern Illinois University Carbondale	
AAS Welding Technology - 60 hrs				BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
				University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs		Hrs	
			UNIV 101	Saluki Success	NA
COM 100	Fund of Speech Communication	3	CMST 101	Intro to Oral Communication	T
ENG 101	First-Year Composition I	3	ENGL 101	English Composition I	T
ENG 102	First-Year Composition II	3	ENGL 102	English Composition II	NA
MATH 129	Pre-Calculus I	3	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
			HUMANITIES		3
			HUMANITIES		NA
			PHYS 203/253A	College Physics/Lab	4
			LIFE SCIENCE	Students take 2 physics courses	3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		15			19
Program Requirements		Program Requirements			
WLD 101	Blueprint Reading for Welders	3	The AAS degree in Welding Technology as articulated fulfills the 22 hrs of technical electives required for the BS degree in Industrial Management & Applied Engineering.		
WLD 115	Oxy-Fuel Welding and Cutting	3			
WLD 120	Shielded Metal Arc Welding I	3			
WLD 125	Gas Metal Arc and Flux Cored Arc Welding	3			
WLD 130	Gas Tungsten Arc Welding	3			
WLD 200	Fabrication and Weld Design	3			
WLD 220	Shielded Metal Arc Welding II	3			
WLD 223	Shielded Metal Arc Pipe Welding	3			
WLD 226	Gas Tungsten Arc Pipe Welding	3			
Electives	Choose from Approved Courses	16			
CAD 122 (Recommended Elective)	Geometric Dimensioning & Tolerancing	2	IMAE 110 (Required for BS degree)	Geometric Dimensioning & Tolerancing	T
		45			
			PHYS 203B/253B	College Physics/Lab	4
			IMAE 208	Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calculus for Technology -or- Short Course in Calculus	3
			IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Organizational Psychology	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 Electives	(Must be at 300/400 level)	6
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		52
Total semester hrs completed w/ AAS degree		60	Total semester hrs completed w/ BS degree		71
<i>Degree Plan updated on 11/14/2022 -LB</i>			Total hours to BS degree:		131