

PROGRAM ARTICULATION DEGREE PLAN			
College of Lake County	2024-2025	Southern Illinois University Carbondale	
AAS Welding Technology - 63 hrs		BS Industrial Management & Applied Engineering (IMAE) - 120 hrs	
		University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs	Hrs
CMM 121	Fundamentals of Speech	3	UNIV 101 Saluki Success
ENG 121	English Composition I	3	CMST 101 Intro to Oral Communication
			ENGL 101 English Composition I
			ENGL 102 English Composition II (Capstone)
MTH 122	College Algebra	5	MATH 108 College Algebra
	IAI Social & Behavioral Sciences	3	SOCIAL SCIENCE See SIUC Transfer Equivalency Guide
			SOCIAL SCIENCE 3
	IAI Humanities/Fine Arts	3	HUMANITIES See SIUC Transfer Equivalency Guide
			HUMANITIES NA
			PHYS 203A -and- 253A College Physics w/Lab 4
			LIFE SCIENCE 3
			FINE ARTS 3
			HUMAN HEALTH NA
			MULTICULTURAL 3
		17	16
Program Requirements		Program Requirements	
CLC 120	College Success Seminar	2	The AAS degree in Welding Technology as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).
PMT 140	Metallurgy for Metalworking	2	
WFT 113	Welding Blueprint Reading	3	
WFT 117	Applied Welding Fabrication I	3	
WFT 170	General Welding I	3	
WFT 171	Gas Welding, Brazing & Thermal Cutting	3	
WFT 172	Shielded Metal Arc Welding I	3	
WFT 175	Gas Metal Arc Welding I	3	
WFT 176	Welding Certification & Testing	3	
WFT 178	Gas Tungsten Arc Welding I	3	
WFT 180	Robotics Welding I -or- other WFT Elective	3	
WFT 217	Applied Welding Fabrication I	3	
WFT 270	General Welding II	3	
WFT 272	Shielded Metal Arc Welding II	3	
WFT 275	Gas Metal Arc Welding II	3	
WFT 278	Gas Tungsten Arc Welding II	3	
		46	
			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:		63	Total semester hrs completed w/BS degree:
			68
		Total hours to BS degree:	
			131
<i>Degree Plan updated on 5/24/24 by SG</i>			