

PROGRAM ARTICULATION DEGREE PLAN				
College of Lake County 2022-2023		Southern Illinois University Carbondale		
AAS Welding - 62 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
		University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs	Hrs	
CLC 120	College Success Seminar	2	UNIV 101 Saluki Success	NA
CMM 121*	Fundamentals of Speech	3	CMST 101 Intro to Oral Communication	T
ENG 121	English Composition I	3	ENGL 101 English Composition I	T
			ENGL 102 English Composition II (Capstone)	NA
			MATH 108 College Algebra	3
ECO 110	Economics for Business and Industry	3	ECON 113 Economics of Contemporary Social Issues	T
			SOCIAL SCIENCE	3
	IAI HUMANITIES or FINE ARTS	3	HUMANITIES (See SIUC Equivalency Guide)	T
			HUMANITIES	NA
			PHYS 203/253A College Physics/Lab	4
			LIFE SCIENCE, GRP II Students take 2 physics courses	NA
			FINE ARTS	3
			HUMAN HEALTH	NA
			MULTICULTURAL	3
*Recommended to complete BS requirement		14		16
<b>Program Requirements</b>		<b>Program Requirements</b>		
MTH 114	Applied Mathematics I	3	The AAS degree in Welding as articulated fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering.	
PMT 140	Basic Metallurgy I	3		
WFT 113	Welding Blueprint Reading	3		
WFT 117	Applied Welding Fabrication I	3		
WFT 170	General Welding	3		
WFT 171	Gas Welding, Brazing and Thermal Cutting	3		
WFT 172	Shielded Metal Arc Welding I	3		
WFT 175	Gas Metal Arc Welding I	3		
WFT 176	Welding Certification and Testing	3		
WFT 178	Gas Tungsten Arc Welding I	3		
WFT 180	Robotics Welding I	3		
WFT 217	Welding Fabrication 2	3		
WFT 270	General Welding 2	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		
		48		
			PHYS 203/253B College Physics/Lab	4
			IMAE 208 Fundamentals of Manufacturing Processes	3
			IMAE 110 Geometric Dimensioning & Tolerancing	3
			IMAE 305 Industrial Safety	3
			IMAE 307 -or- MATH 140 Applied Calc for Tech -or- Short Course in Calc	3-4
			IMAE 340 -or- PSYC 323** Intro to Supervision -or- Organizational Psych	3
			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 Electives (Must be at 300/400 level)	3
				52-53
<b>Total semester hrs completed w/ AAS degree</b>		<b>62</b>	<b>Total semester hrs completed w/ BS degree</b>	<b>68-69</b>
			<b>Total hours to BS degree:</b>	<b>130-131</b>
Degree plan updated by SW 3/11/22		**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		