

PROGRAM ARTICULATION DEGREE PLAN			
Lake Land College		2021-2022	Southern Illinois University Carbondale
AAS Welding - 60.5 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
		University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs	Hrs
ENG 120	Composition I	3	UNIV 101 ENGL 101 ENGL 102 English Success English Composition I English Composition II
SPE 111	Intro to Speech Communication	3	CMST 101 Intro to Oral Communication
MAT 130	College Algebra	3	MATH 108 (Required for BS degree) College Algebra
	SOCIAL SCIENCE	3	SOCIAL SCIENCE (See SIUC Equivalency Guide)
			SOCIAL SCIENCE
			HUMANITIES
			HUMANITIES
			PHYS 203/253A (Required for BS degree)
			LIFE SCIENCE, GRP II
			FINE ARTS
			HUMAN HEALTH
			MULTICULTURAL
		12	16
Program Requirements		Program Requirements	
IND 062	Rigging and Hoisting	1	The AAS degree in Welding as articulated fulfills the 22 hrs of technical electives required for the BS degree in Industrial Management & Applied Engineering.
MTT 050	Intro to Machining Procedures	3	
SOS 052	Workplace Communication/Safety	3	
TEC 040	Blueprint Reading for Industry I	2.5	
TEC 043	Industrial Safety	1	
TEC 070	Properties of Metal	2.5	
WEL 047	Shielded Metal Arc Welding I	2	
WEL 048	Shielded Metal Arc Welding II	3	
WEL 049	Shielded Metal Arc Welding III	3	
WEL 053	Gas Tungsten Arc Welding/Aluminum	4	
WEL 054	Gas Tungsten Arc Welding/Stainless Steel	2	
WEL 055	Pipefitting & Welding	3	
WEL 056	Metal Cutting and Fabrication	2	
WEL 057	Welding Fundamentals	2.5	
WEL 058	Gas Metal Arc Welding I	2	
WEL 059	Gas Metal Arc Welding II	3	
WEL 060	Gas Metal Arc Welding III	3	
WEL 061	Gas Tungsten Arc Welding	3	
WEL 074	Welding S.O.E. (Supervised Occupational Experience)	3	
		48.5	PHYS 203B/253B College Physics/Lab
			IMAE 110 Geometric Dimensioning and Tolerancing
			IMAE 208 Manufacturing Processes
			IMAE 305 Industrial Safety
			IMAE 307 -or- MATH 140 Applied Calculus for Tech -or- Short Course in Calculus
			IMAE 340 -or- PSYC 323** Intro to Supervision -or- Organizational Psychology
			IMAE 375 Production & Inventory Management
			IMAE 390 Cost Estimating
			IMAE 392 Facilities Planning & Workplace Design
			IMAE 442 Fundamentals of Leadership
			IMAE 445 Computer-Aided Manufacturing
			IMAE 450 Project Management
			IMAE 465 Lean Manufacturing
			IMAE 470A Six Sigma Green Belt I
			IMAE 470B Six Sigma Green Belt II
			IMAE 476 Supply Chain Management
			IMAE Electives (Must be at 300/400 level)
			55-56
Total semester hrs completed w/ AAS degree:		60.5	Total semester hrs completed w/ BS degree:
			71-72
Degree Plan created on 2/25/2022 by SW		Total semester hrs to BS degree:	
			131.5-132
**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite			