

PROGRAM ARTICULATION DEGREE PLAN					
Kankakee Community College	2021-2022		Southern Illinois University Carbondale		
AAS Manufacturing Technology: Welding Specialization - 63 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			Hrs
ENGL 1613	English I	3	UNIV 101	Saluki Success	NA
			ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
COMM 1553	Introductory Speech	3	CMST 101	Intro to Oral Communication	T
MATH 1814*	College Algebra	4	MATH 108 (Required for BS degree)	College Algebra	T
PSYC 1813	Intro to Psychology	3	PSYC 102	Intro to Psychology	T
			SOCIAL SCIENCE		3
			HUMANITIES		3
			HUMANITIES		NA
			PHYS 203/253A	College Physics/Lab	4
			LIFE SCIENCE, GRP II	Students take 2 physics courses	NA
			FINE ARTS		3
			HEALTH		NA
			MULTICULTURAL		3
*Recommended to fulfill SIUC BS degree requirements		13			16
Program Requirements			Program Requirements		
BSNS 2423	Internship Experience	3	<p>The AAS degree in Manufacturing Technology: Welding Specialization as articulated fulfills the 22 hours of technical elective requirements for the BS degree in Industrial Management and Applied Engineering.</p>		
MAFT 1112	Intro to Manufacturing and Safety	2			
MAFT 1222	Quality and Measurement	2			
MAFT 1312	Intro to Manufacturing Maintenance	2			
MAFT 1323	Lean and Quality Overview	3			
MCHN 1311	Precision Measurement	1			
MCHN 1323	Fabrication	3			
MCHN 1442	Rigging	2			
WELD 1114	Basic Welding	4			
WELD 1124	Advanced Arc Welding	4			
WELD 1263	Metallurgy and Heat Treatment	3			
WELD 2044	Pipe Welding	4			
WELD 2124	Tungsten Inert Gas Welding	4			
WELD 2224	Metallic Inert Gas Welding	4			
TECHNICAL ELECTIVES	Choose from approved Technology Electives courses	6			
WELDING ELECTIVE	Choose from WELD 2062, 2072, and 2172	2			
MAFT 1232	Manufacturing Processes	2			
		51			
			PHYS 203B/253B	College Physics/Lab	4
			IMAE 110	Geometric Dimensioning and Tolerancing	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calculus for Tech -or- Short Course in Calculus	3-4
			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
					52-53
Total semester hrs completed w/ AAS degree		64	Total semester hrs completed w/ BS degree		68-69
<i>Degree Plan created on 2/18/2022 by SW</i>			Total semester hours to BS degree:		132-133
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		