

PROGRAM ARTICULATION DEGREE PLAN				
Parkland College	2024-2025		Southern Illinois University Carbondale	
AAS Industrial Technology: Welding - 61-62 hrs			BS Industrial Management & Applied Engineering (IMAE) - 120 hrs	
			University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs		Hrs
COM 103	Intro to Public Speaking	3	UNIV 101	Saluki Success
ENG 101	Composition I	3	CMST 101	Intro to Oral Communication
			ENGL 101	English Composition I
			ENGL 102	English Composition II
MAT 124	College Algebra	4	MATH 108	College Algebra
			SOCIAL SCIENCE	3
			SOCIAL SCIENCE	3
			HUMANITIES	3
			HUMANITIES	NA
PHY 121 (Gen Educ Elective)	General Physics I	5	PHYS 203A -and- 253A	College Physics w/Lab
			LIFE SCIENCE	3
			FINE ARTS	3
			HUMAN HEALTH	NA
			MULTICULTURAL	3
		15		18
Program Requirements			Program Requirements	
CAD 113	Computer-Aided Machine Design I	4	<p style="text-align: center;">The AAS degree in Industrial Technology: Welding as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE)</p>	
CAD 114	Intro to AutoCAD (Computer-Aided Drafting)	2		
MFT 113	Intro to Hydraulics & Pneumatics	3		
MFT 130	Basic Machine Processes	3		
MFT 131	Intro to Manufacturing & Industrial Safety	3		
MFT 137	Intro to CNC Programming	4		
MFT 139	Quality Assurance	3		
MFT 151	Manufacturing Work Experience I	2		
WLD 111	Intro to Welding	4		
WLD 112	Gas Metal Arc Welding	2		
WLD 113	Gas Tungsten Arc Welding	2		
WLD 212	Advanced Gas Metal Arc Welding	2		
WLD 213	Advanced Gas Tungsten Arc Welding	2		
WLD 216 -or- PFT 117	Welding Certification -or- Basic Pipefitting & Welding	3-4		
Elective		1		
ELT 150	Intro to Electricity & Electronics	3	EET 150 (elective)	Intro to Electrical Engineering Technology
MFT 110	Mechanical Assemblies	3	IMAE 1XX (elective)	IMAE Technical Elective 100-level
		46-47		
			PHYS 203B -and- 253B	College Physics w/Lab
			IMAE 110	Geometric Dimensioning & Tolerancing
			IMAE 208	Fundamentals of Manufacturing Processes
			IMAE 305	Industrial Safety
			IMAE 307	Applied Calc for Tech
			IMAE 340	Intro to Supervision
			IMAE 375	Production & Inventory Management
			IMAE 390	Cost Estimating
			IMAE 392	Facilities Planning & Workplace Design
			IMAE 442	Fundamentals of Leadership
			IMAE 445	Computer Integrated 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 Elective	300/400 level
				52
Total semester hrs completed w/AAS degree:		61-62	Total semester hrs completed w/BS degree:	
			Total hours to BS degree:	
				131-132
Degree Plan created on 5/14/24 by SG				