

PROGRAM ARTICULATION DEGREE PLAN				
Parkland College	2024-2025	Southern Illinois University Carbondale		
AAS Industrial Technology: Machine Tools - 60 hrs		BS Industrial Management & Applied Engineering (IMAE) - 120 hrs		
		University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs	Hrs	
		UNIV 101	Saluki Success	
COM 103	Intro to Public Speaking	3	CMST 101	
ENG 101	Composition I	3	ENGL 101	
			ENGL 102	
MAT 124	College Algebra	4	MATH 108	
			SOCIAL SCIENCE	
			SOCIAL SCIENCE	
			HUMANITIES	
			HUMANITIES	
PHY 121 (Gen Educ Elective)	General Physics I	5	PHYS 203A -and- 253A	
			LIFE SCIENCE	
			FINE ARTS	
			HUMAN HEALTH	
			MULTICULTURAL	
		15		
			18	
Program Requirements		Program Requirements		
CAD 113	Computer-Aided Machine Design I	4	The AAS degree in Industrial Technology: Machine Tools as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE)	
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		
Elective		1		
Technical Electives	Select from list of approved courses	10		
ELT 150	Intro to Electricity & Electronics	3		EET 150 (elective)
MFT 110	Mechanical Assemblies	3		IMAE 1XX (elective)
		45		
				PHYS 203B -and- 253B
			IMAE 110	
			IMAE 208	
			IMAE 305	
			IMAE 307	
			IMAE 340	
			IMAE 375	
			IMAE 390	
			IMAE 392	
			IMAE 442	
			IMAE 445	
			IMAE 450	
			IMAE 465	
			IMAE 470A	
			IMAE 470B	
			IMAE 476	
			IMAE Elective	
			College Physics w/Lab	
			Geometric Dimensioning & Tolerancing	
			Fundamentals of Manufacturing Processes	
			Industrial Safety	
			Applied Calc for Tech	
			Intro to Supervision	
			Production & Inventory Management	
			Cost Estimating	
			Facilities Planning & Workplace Design	
			Fundamentals of Leadership	
			Computer Integrated Manufacturing	
			Project Management	
			Lean Manufacturing	
			Six Sigma Green Belt I	
			Six Sigma Green Belt II	
			Supply Chain Management	
			300/400 level	
			52	
Total semester hrs completed w/AAS degree:		60	Total semester hrs completed w/BS degree:	
			70	
			Total hours to BS degree:	
			130	
<i>Degree Plan created on 5/14/24 by SG</i>				