

PROGRAM ARTICULATION DEGREE PLAN					
<b>Prairie State College 2023-2024</b>		<b>Southern Illinois University Carbondale</b>			
AAS Tool and Die Making - 62-63 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs			
		<b>UNIVERSITY CORE CURRICULUM (UCC) CAPSTONE OPTION - 30 hrs</b>			
		<b>Hrs</b>			<b>Hrs</b>
COMM 101	Principles of Communication	3	UNIV 101	Saluki Success	NA
ENG 101	Composition I	3	CMST 101	Intro:Oral Communication	T
			ENGL 101	English Composition I	T
MATH 151	College Algebra	4	ENGL 102	English Composition II	NA
	IAI Social Science	3	MATH 108 (required)	College Algebra	T
			SOCIAL SCIENCE		T
	IAI Humanities/Fine Arts	3	SOCIAL SCIENCE		3
			HUMANITIES	See SIUC Transfer Equivalency Guide	T
PHYSI 120	College Physics I	4	HUMANITIES		NA
PHYSI 130	College Physics II	4	PHYS 203A/253A (required)	College Physics/Lab	T
			PHYS 203B/253B (required)	College Physics/Lab	T
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		<b>24</b>			<b>12</b>
<b>Program Requirements</b>		<b>Program Requirements</b>			
CADMD 141	Technical Drafting	3	<p>The AAS degree in Tool and Die Making as articulated fulfills the 22 hrs of technical elective course requirements for the BS degree in Industrial Management &amp; Applied Engineering (IMAE).</p>		
CADMD 243	Introduction to AutoCAD	3			
CADMD 244	Intermediate AutoCAD	3			
HYDR 101	Fundamentals of Hydraulics	2			
HYDR 106	Pneumatics	2			
MILL 101	Industrial Maintenance Techniques I	2			
MT 101	Machining Basics – Measurement, Materials, & Safety	3			
MT 102	Machining Job Planning, Benchwork, & Layout	3			
MT 105	Metal Working Processes III	3			
MT 210	CNC Milling Level I	3			
MT 220	Metallurgy – Ferrous	2			
TECH 109	Technical Mathematics I	4			
TOOL 101	Tool and Die Processes	2			
TOOL 102	Tool and Die Maintenance	2			
WELD 115	Basic Arc Welding/Oxyfuel Welding	3			
Electives	Choose at least 3 hours from: CADMD 245, 248, 249; MT 211, 214	3			
		<b>43</b>			
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307	Applied Calc for Tech	3
			IMAE 340	Intro to Supervision	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 Elective	(Must be at 300/400 level)	3
					<b>48</b>