

PROGRAM ARTICULATION DEGREE PLAN					
<b>Prairie State College 2018-2019</b>				<b>Southern Illinois University Carbondale</b>	
AAS Industrial Mechanic - 62 hrs				BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
		<b>Hrs</b>		<b>UNIVERSITY CORE CURRICULUM (UCC) CAPSTONE OPTION - 30 hrs</b>	
				<b>Hrs</b>	
ENG 101	Composition I	3	UNIV 101	Saluki Success	NA
			ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
COMM 101	Principles of Communication	3	CMST 101	Intro to Oral Communication	T
MATH 151	College Algebra	4	MATH 108 (Required for BS degree)	College Algebra	T
IAI SOCIAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE		T
			SOCIAL SCIENCE		3
IAI HUMANITIES/FINE ARTS	(See SIUC Equivalency Guide)	3	HUMANITIES		T
			HUMANITIES		NA
PHYSI 120	College Physics I	4	PHYS 203A/253A (Required for BS degree)	College Physics w/ Lab	T
			LIFE SCIENCE, GRP II		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		<b>20</b>			<b>12</b>
<b>Program Requirements</b>				<b>Program Requirements</b>	
CADMD 141	Technical Drafting	3	The AAS in Industrial Mechanic as articulated fulfills the program technical elective requirements		
DRAFT 115	Blueprint Reading for Mechanical Trades	2	for the BS in Industrial Management and Applied Engineering (IMAE).		
HYDR 101	Fundamentals of Hydraulics	2			
HYDR 103	Hydraulic Controls	2			
HYDR 106	Pneumatics	2			
MILL 101	Industrial Maintenance Techniques I	2			
MILL 102	Industrial Maintenance Techniques II	2			
MILL 103	Lubrication	2			
MILL 105	Rigging	2			
MILL 106	Power Train Elements	2			
MILL 107	Machine Vibration Analysis I	2			
MT 101	Machining Basics – Measurement, Materials, & Safety	3			
MT 102	Machining Job Planning, Benchwork, and Layout	3			
MT 105	Metal Working Processes III	3			
PIPE 101	Fundamentals of Pipefitting	2			
PIPE 102	Drains, Wastes, and Vents	2			
WELD 115	Basic Arc Welding/Oxyfuel Welding	3			
WELD 215	Intermediate Arc Welding/SMAW, GMAW	3			
		<b>42</b>			
			PHYS 203B/253B	College Physics w/ Lab	4
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307	Applied Calculus for Technology	3
			IMAE 340 -or- PSYC 323*	Introduction to Supervision -or- Organizational Psychology	3
			IMAE 376	Supply Chain Operations & Logistics	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Planning & Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer-Aided 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 Design & Strategy	3
			IMAE Electives	300/400 level (Required to meet 42 hr requirement)	3
					<b>52</b>
<b>Total semester hrs completed w/ AAS degree</b>		<b>62</b>	<b>Total semester hrs completed w/ BS degree</b>		<b>64</b>
			<b>Total hours to BS degree:</b>		<b>126</b>
*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite					