

PROGRAM ARTICULATION DEGREE PLAN								
Prairie State College 2023-2024		Southern Illinois University Carbondale						
AAS CAD/Mechanical Design Technology - 64 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs						
		UNIVERSITY CORE CURRICULUM (UCC) CAPSTONE OPTION - 30 hrs						
		Hrs			Hrs			
COMM 101	Principles of Communication	3	UNIV 101	Saluki Success	NA			
ENG 101	Composition I	3	CMST 101	Intro to Oral Communication	T			
			ENGL 101	English Composition I	T			
MATH 151 (recommended)	College Algebra	4	ENGL 102	English Composition II	NA			
	IAI SOCIAL SCIENCE	3	MATH 108 (Required for BS degree)	College Algebra	T			
			SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T			
			SOCIAL SCIENCE		3			
	IAI HUMANITIES	3	HUMANITIES	See SIUC Transfer Equivalency Guide	T			
			HUMANITIES		NA			
PHYSI 120 (recommended)	College Physics I	4	PHYS 203A/253A (Required for BS degree)	College Physics w/ Lab	T			
			LIFE SCIENCE		3			
			FINE ARTS		3			
			HUMAN HEALTH		NA			
			MULTICULTURAL		3			
		20			12			
Program Requirements		Program Requirements						
CADMD 141	Technical Drafting	3	<p>The AAS degree in CAD/Mechanical Design Technology as articulated fulfills the 22 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).</p>					
CADMD 201	Mechanical Layout and Design I	3						
CADMD 243	Introduction to AutoCAD	3						
CADMD 244	Intermediate AutoCAD	3						
MT 101	Machining Basics – Measurement, Materials, & Safety	3						
MT 102	Machining Job Planning, Benchwork and Layout	3						
MT 210	CNC Milling Level I	3						
MT 211	CNC Turning Level 1	3						
MT 214	CAD/CAM Systems	3						
MT 220	Metallurgy - Ferrous	2						
Electives	CADMD 203, 245, 248, 249; MT 215; WELD 268	7						
TECH 109	Technical Mathematics	4						
PHYSI 130 (recommended)	College Physics II	4				PHYS 203B/253B (Required for BS degree)	College Physics w/ Lab	T
		44						
						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			
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		48			
Total semester hrs completed w/ AAS degree		64	Total semester hrs completed w/ BS degree		60			
Degree Plan updated on 7/21/2023 by RP		Total hours to BS degree:			124			