

PROGRAM ARTICULATION DEGREE PLAN					
Prairie State College 2018-2019			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
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
		20			12
* Recommended to fulfill SIUC BS degree requirements					
Program Requirements			Program Requirements		
CADMD 141	Technical Drafting	3	The AAS in CAD/Mechanical Design Technology as articulated fulfills the program technical elective requirements for the BS in Industrial Management and Applied Engineering (IMAE).		
CADMD 201	Mechanical Layout and Design I	3			
CADMD 243	Introduction to AutoCAD	3			
CADMD 244	Intermediate AutoCAD	3			
MATH 157*	Calculus for Business and Social Science	4	MATH 140 (Required for BS degree)	Short Course in Calculus	T
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			
PHYSI 130*	College Physics II	4	PHYS 203B/253B (Required for BS degree)	College Physics w/ Lab	T
Electives	Choose at least 7 hours from: CADMD 203, 245, 248, 249; MT 215; WELD 268	7			
		44			
*Recommended electives to fulfill SIUC BS degree requirements					
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	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)	6
					48
Total semester hrs completed w/ AAS degree		64	Total semester hrs completed w/ BS degree		60
			Total hours to BS degree:		124
*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite					