

PROGRAM ARTICULATION DEGREE PLAN								
College of Lake County 2023-2024			Southern Illinois University Carbondale					
AAS Precision Machining Technology - 62 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs					
			University Core Curriculum (UCC) Capstone Option - 30 hrs					
		Hrs			Hrs			
			UNIV 101	Saluki Success	NA			
CMM121	Fundamentals of Speech	3	CMST 101	Intro to Oral Communication	T			
ENG121	English Composition I	3	ENGL 101	English Composition I	T			
			ENGL 102	English Composition II	NA			
MTH 122 (Recommended)	College Algebra	5	MATH 108 (Required for BS degree)	College Algebra	T			
ECO110	Economics for Business and Industry	3	ECON 113	Economics of Contemporary Social Issues	T			
			SOCIAL SCIENCE		3			
	IAI HUMANITIES or IAI FINE ARTS	3	HUMANITIES	(See SIUC Equivalency Guide)	T			
			HUMANITIES		NA			
			PHYS 203/253A	College Physics/Lab	4			
			LIFE SCIENCE, GRP II		3			
			FINE ARTS		3			
			HUMAN HEALTH		NA			
			MULTICULTURAL		3			
		17			16			
Program Requirements			Program Requirements					
CAD 117 or CAD 170	Introduction to AutoCAD or Introduction to	3	The AAS degree in Precision Machining Technology as articulated fulfills the 22 hrs of technical elective requirements for the BS degree in Industrial Management & Applied Engineering.					
CLC 120	College Success Seminar	2						
EWE 120	Job Readiness Skills	1						
PMT 110	Manufacturing Your Success	1						
PMT 112	Blueprint Reading & Precision Measurement	3						
PMT 126	CNC Machining	3						
PMT 128	Precision Grinding	3						
PMT 129 or EWE 220	EDM Waterjet Technology or Internship I	3						
PMT 132	CNC Mill Setup & Programming	3						
PMT 134	CNC Lathe Setup & Programming	3						
PMT 136	Advanced Inspection & Measurement	3						
PMT 138	CAM Programming-2D	3						
PMT 140	Metallurgy for Metalworking	2						
PMT 142	Jig & Fixture Design	3						
PMT 148	CAM Programming-3D	3						
PMT 114	Machining Processes I	3						
PMT 124	Machining Processes II	3						
		45				IMAE 209	Manufacturing Process Laboratory	T
						PHYS 203B/253B	College Physics/Lab	4
						IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3			
			IMAE 305	Industrial Safety	3			
			IMAE 307 -or- MATH 140	Applied Calculus for Tech -or- Short Course in Calculus	3-4			
			IMAE 340 -or- PSYC 323*	Intro to Supervision or Organizational Psychology	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-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 Management	3			
			IMAE Electives	(Must be at 300/400 level)	6			
					55-56			
Total semester hrs completed w/ AAS degree		62	Total semester hrs completed w/ BS degree		71-72			
			Total hours to BS degree:		133-134			
Degree plan updated 5/2/2023 by SW			*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite					