

PROGRAM ARTICULATION DEGREE PLAN					
Harper College	2024-2025	Southern Illinois University Carbondale			
AAS Manufacturing Technology - Precision Machining - 60 hrs		BS Industrial Management & Applied Engineering (IMAE) - 120 hrs			
		University Core Curriculum (UCC) CAPSTONE OPTION - 30 hrs			
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
SPE 101	Fund of Speech Communication	3	CMST 101	Intro: Oral Communication	T
ENG 101	Composition	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
MTH 103	College Algebra	3	MATH 108	College Algebra	T
	IAI Social Science*	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
			SOCIAL SCIENCE		3
	IAI Humanities*	3	HUMANITIES	(See SIUC Equivalency Guide)	T
			HUMANITIES		NA
			PHYS 203A -and- 253A	College Physics w/Lab	4
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
*One course must satisfy a World Cultures and Diversity requirement					
		15			16
Program Requirements		Program Requirements			
MFT 102	Intro to Manufacturing & Safety	4	An AAS in Manufacturing Technology - Precision Machining as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).		
MFT 105	Machining Processes I	3			
MFT 120	Machining Processes II	3			
MFT 121	Machining Processes III	3			
MFT 123	Intro to CNC Machining	4			
MFT 125	CNC Lathe Operation & Programming	4			
MFT 128	CNC Mill Operation & Programming	4			
MFT 132	Dimensional Metrology	3			
MFT 134	Print Reading for Industry	3			
MFT 140	Quality Assurance	3			
MFT 210	Computer Integrated Manufacturing	3			
MFT 220	Computer Aided Manufacturing	3			
Technical Electives		5			
		45			
			PHYS 203B -and- 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 Calc for Tech -or- Short Course in Calc	3
			IMAE 340	Intro to Supervision	3
			IMAE 375	Production & 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 Electives	300/400 level	3
					52
Total semester hrs completed w/ AAS degree:		60	Total semester hrs completed w/ BS degree:		68
			Total hours to BS Degree:		128
Degree Plan updated on 5/8/24 by SG					