

PROGRAM ARTICULATION DEGREE PLAN			
Harper College 2021-2022		Southern Illinois University Carbondale	
AAS Manufacturing Technology - Precision Machining - 60 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
		University Core Curriculum (UCC) CAPSTONE OPTION - 30 hrs	
		Hrs	Hrs
		UNIV 101	Foundations of Inquiry
MTH 103	College Algebra	3	MATH 108 (Required for BS degree)
SPE 101	Fund of Speech Communication	3	CMST 101
ENG 101	Composition	3	ENGL 101
		ENGL 102	English Composition I
	IAI Social Science*	3	SOCIAL SCIENCE
			(See SIUC Equivalency Guide)
			SOCIAL SCIENCE
	IAI Humanities*	3	HUMANITIES
			(See SIUC Equivalency Guide)
			HUMANITIES
			PHYS 203/253A (Required for BS degree)
			College Physics/Lab
			LIFE SCIENCE
			Students take 2 physics courses
			FINE ARTS
			HUMAN HEALTH
*One course must satisfy a World Cultures and Diversity requirement			MULTICULTURAL
		15	13
<b>Program Requirements</b>		<b>Program Requirements</b>	
MFT 102	Intro to Manufacturing and Safety	4	<b>An AAS in Manufacturing Technology - Precision Machining satisfies the 22 hours of technical electives required for the BS degree in Industrial Management and Applied Engineering.</b>
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	
			College Physics/Lab
			IMAE 110
			Geometric Dimensioning & Tolerancing
			IMAE 208
			Fundamentals of Mfg Processes
			IMAE 305
			Industrial Safety
			IMAE 307 -or- MATH 140
			Applied Calc for Tech -or- Short Course in Calc
			IMAE 340 -or- PSYC 323*
			Intro to Supervision -or- Organizational Psychology
			IMAE 375
			Production and Inventory Management
			IMAE 390
			Cost Estimating
			IMAE 392
			Facilities Plan/Workplace Dsgn
			IMAE 442
			Fundamentals of Leadership
			IMAE 445
			Computer-Aided Manufacturing
			IMAE 450
			Project Management
			IMAE 465
			Lean Manufacturing
			IMAE 470A
			Six Sigma Green Belt I
			IMAE 470B
			Six Sigma Green Belt II
			IMAE 476
			Supply Chain Management
			IMAE Electives
			(Must be at 300/400 level)
			52-53
<b>Total semester hrs completed w/ AAS degree:</b>		<b>60</b>	<b>Total semester hrs completed w/ BS degree:</b>
			<b>65-66</b>
			<b>Total hours to BS Degree:</b>
			<b>125-126</b>
			*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite
Degree plan created by SW 12/17/2021			