

PROGRAM ARTICULATION DEGREE PLAN								
Harper College 2021-2022		Southern Illinois University Carbondale						
AAS Manufacturing Technology - Metal Fabrication - 61 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs						
		University Core Curriculum (UCC) CAPSTONE OPTION - 30 hrs						
		Hrs	Hrs					
MTH 103	College Algebra	3	UNIV 101	Foundations of Inquiry	NA			
SPE 101	Fund of Speech Communication	3	MATH 108 (required for BS)	College Algebra	T			
ENG 101	Composition	3	CMST 101	Intro:Oral Communication	T			
			ENGL 101	English Composition I	T			
			ENGL 102	English Composition II	NA			
	IAI Social Science*	3	SOCIAL SCIENCE	(See SIUC Transfer Equivalency Guide)	T			
			SOCIAL SCIENCE		3			
	IAI Humanities*	3	HUMANITIES	(See SIUC Transfer Equivalency Guide)	T			
			HUMANITIES		NA			
			PHYS 203/253A	College Physics/Lab	4			
			LIFE SCIENCE	Students take 2 physics courses	NA			
	IAI Fine Arts*	3	FINE ARTS		T			
			HUMAN HEALTH		NA			
*One course must satisfy a World Cultures and Diversity requirement			MULTICULTURAL		3			
		18			10			
Program Requirements			Program Requirements					
MFT 102	Introduction to Manufacturing and Safety	4	<p align="center">An AAS in Manufacturing Technology - Metal Fabrication satisfies the 22 hours of technical electives required for the BS degree in Industrial Management and Applied Engineering.</p>					
MFT 104	Quality and Measurement	2						
MFT 108	Manufacturing Processes	3						
MFT 109	Introduction to Manufacturing Maintenance	2						
MFT 119	Manufacturing Internship	2						
MFT 134	Print Reading for Industry	3						
WLD 110	Welding I	3						
WLD 210	Welding II	3						
WLD 211	Welding III	4						
WLD 212	Welding IV	4						
WLD 225	Advanced Blueprint Reading	2						
WLD 240	Cutting Processes	3						
WLD 245	Welding Fabrication I	4						
WLD 250	Welding Fabrication II	4						
		43				PHYS 203/253B	College Physics/Lab	4
						IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Mfg Processes	3			
			IMAE 305	Industrial Safety	3			
			IMAE 307 -or- MATH 140	Applied Calc for Tech -or- Short Course in Calc	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 Plan/Workplace Dsgn	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)	3			
					52-53			
Total semester hrs completed w/ AAS degree:		61	Total semester hrs completed w/ BS degree:		62-63			
			Total hours to BS Degree:		123-124			
			*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite					
Degree plan created by SW 12/17/2021								