	ULATION DEGREE PLAN				
Harper College	2024-2025		Southern Illinois University Car		
AAS Manufacturing	Technology - Mechatronics Automation - 60 hrs		BS Industrial Management & Appl		
			University Core Curriculum (UC	CC) CAPSTONE OPTION - 30 hrs	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
SPE 101	Fund of Speech Communication	3	CMST 101	Intro:Oral Communication	Т
ENG 101	Composition		ENGL 101	English Composition I	Ť
2110 101	Composition		ENGL 102	English Composition II	NA.
MTH 103	College Algebra		MATH 108	College Algebra	T
WITTI 103	College Algebia		SOCIAL SCIENCE	College Algebia	3
		$-\!\!\!-\!\!\!\!-$	SOCIAL SCIENCE		
	IALLE			(O O O	3
	IAI Humanities*		HUMANITIES	(See SIUC Transfer Equivalency Guide)	T
			HUMANITIES		NA
			PHYS 203A -and 253A	College Physics w/Lab	4
			LIFE SCIENCE		3
	IAI Fine Arts*		FINE ARTS		T
			HUMAN HEALTH		NA
*One course must s	satisfy a World Cultures and Diversity requirement		MULTICULTURAL		3
		15			16
Program Requiren	nents		Program Requirements		
ELT 110	Introductory Electronics	4	<u> </u>	ı	
ELT 120	Intro Industrial Electronics Maintenance	2			
ELT 135	Optics & Sensors	2			
ELT 140	Intro to Programmable Logic Controllers	2			
ELT 140 ELT 143		2			
	Commercial Wiring				
ELT 144	AC & DC Motors	2			
ELT 145	Variable Frequency Drives	2		se requirements for the BS degree in Industrial Ma	
ELT 215	Industrial Control Systems	4		Applied Engineering (IMAE).	
ELT 240	Advanced Programmable Logic Controllers	4		Applied Eligilieering (IMAL).	
MFT 102	Introduction to Manufacturing & Safety	4			
MFT 104	Quality & Measurement	2			
MFT 109	Introduction to Manufacturing Maintenance	2			
MFT 119	Manufacturing Internship	2			
Technical Electives		8			
MFT 108	Manufacturing Proceses		IMAE 208	Fundamentals of Manufacturing Processes	Т
WII 1 100	Manuacturing 1 1000303	45	INVIAL 200	Tundamentals of Mandiacturing 1 10003303	
		- 73	PHYS 203B -and- 253B	College Physics w/Lab	
			IMAE 110	Geometric Dimensioning & Tolerancing	1
					4
			IMAE 305	Industrial Safety	3
			IN 4 A E 0.07		3 3
			IMAE 307	Applied Calc for Tech	3 3 3
			IMAE 340	Intro to Supervision	3 3 3 3
			IMAE 340 IMAE 375	Intro to Supervision Production & Inventory Management	3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390	Intro to Supervision Production & Inventory Management Cost Estimating	3 3 3 3 3
			IMAE 340 IMAE 375	Intro to Supervision Production & Inventory Management	3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390	Intro to Supervision Production & Inventory Management Cost Estimating	3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership	3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing	3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management	3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 465	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing	3 3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 465 IMAE 470A	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I	3 3 3 3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II	3 3 3 3 3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 470A IMAE 470B IMAE 470B	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II	3 3 3 3 3 3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 470A IMAE 470B IMAE 470B	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 465 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management 300/400 level	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Total semester hrs	s completed w/AAS degree:		IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 470A IMAE 470B IMAE 470B	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management 300/400 level	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Total semester hrs	s completed w/AAS degree:		IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 465 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management 300/400 level	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Total semester hrs	s completed w/AAS degree:		IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management 300/400 level	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Total semester hrs	s completed w/AAS degree:		IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 465 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management 300/400 level	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
			IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management 300/400 level	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	s completed w/AAS degree:		IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II Supply Chain Management 300/400 level	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3