	CULATION DEGREE PLAN				
Harper College	2024-2025		Southern Illinois University (Carbondale	
AAS Manufacturing	g Technology - Metal Fabrication - 61 hrs	•	BS Industrial Management & A	pplied Engineering (IMAE) - 120 hrs	
				UCC) CAPSTONE OPTION - 30 hrs	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA NA
SPE 101	Fund of Speech Communication		CMST 101	Intro:Oral Communication	T
ENG 101	Composition	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA NA
MTH 103	College Algebra		MATH 108	College Algebra	T
	IAI Social Science*	3	SOCIAL SCIENCE	(See SIUC Transfer Equivalency Guide)	T
			SOCIAL SCIENCE		, 3
	IAI Humanities*	3	HUMANITIES	(See SIUC Transfer Equivalency Guide)	Т
			HUMANITIES		NA
			PHYS 203A -and- 253A	College Physics w/Lab	4
			LIFE SCIENCE		. 3
	IAI Fine Arts*	3	FINE ARTS		T
			HUMAN HEALTH		NA
*One course mus	satisfy a World Cultures and Diversity requirement		MULTICULTURAL		3
		18			13
Program Require			Program Requirements		
MFT 102	Introduction to Manufacturing & Safety	4			
MFT 104	Quality & Measurement	2			
MFT 109	Intro to Manufacturing Maintenance	2			
MFT 119	Manufacturing Internship	2			
MFT 134	Print Reading for Industry	3			
WLD 110	Welding I	3	An AAS in Manufacturing Te	chnology - Metal Fabrication as articulated fulfills	the 15 hrs
WLD 210	Welding II	3	of technical elective course	requirements for the BS degree in Industrial Mana	gement &
WLD 211	Welding III	4	1	Applied Engineering (IMAE).	_
				Applied Liighteeliig (iiviAL).	
WLD 212	Welding IV	4		Applied Eligineering (IMAE).	
	Welding IV	4		Applied Engineering (MAC).	
WLD 212 WLD 225 WLD 240	Welding IV Advanced Blueprint Reading	4		Applied Engineering (mAL).	
WLD 225	Welding IV Advanced Blueprint Reading Cutting Processes	4		Applied Engineering (mAL).	
WLD 225 WLD 240	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I	4 2 3		Applied Engineering (mAL).	
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4	IMAE 208		Т
WLD 225 WLD 240 WLD 245	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I	4 2 3 4 4	IMAE 208	Fundamentals of Manufacturing Processes	Т
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	IMAE 208 PHYS 203B -and- 253B	Fundamentals of Manufacturing Processes	T 4
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3			
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B	Fundamentals of Manufacturing Processes College Physics w/Lab	4
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing	4 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety	4 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech	4 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech Intro to Supervision	4 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech Intro to Supervision Production & Inventory Management Cost Estimating	4 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design	4 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership	4 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing	4 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 465	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 465 IMAE 470A	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 3	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250 MFT 108	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II Manufacturing Processes	4 2 3 4 4 4 3 3 43	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250 MFT 108	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II	4 2 3 4 4 4 3 3 43	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250 MFT 108	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II Manufacturing Processes	4 2 3 4 4 4 3 3 43	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE Elective	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WLD 225 WLD 240 WLD 245 WLD 250 MFT 108 Total semester hr	Welding IV Advanced Blueprint Reading Cutting Processes Welding Fabrication I Welding Fabrication II Manufacturing Processes	4 2 3 4 4 4 3 3 43	PHYS 203B -and- 253B IMAE 110 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	Fundamentals of Manufacturing Processes College Physics w/Lab Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech 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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3