Harpor Collago	DEGREE PLAN		Southorn Illinois University Ora	bondalo	
Harper College	2024-2025	1	Southern Illinois University Car		
AAS Manufacturing T	echnology - Precision Machining - 60 hrs	-	BS Industrial Management & Appl	lied Engineering (IMAE) - 120 hrs	
				C) CAPSTONE OPTION - 30 hrs	
		Hrs	i		Hr
			UNIV 101	Saluki Success	NA
SPE 101	Fund of Speech Communication	3	CMST 101	Intro: Oral Communication	Т
ENG 101	Composition	3	ENGL 101	English Composition I	Т
			ENGL 102	English Composition II	N/
MTH 103 *One course must sati	College Algebra	3	MATH 108	College Algebra	Τ
	IAI Social Science*		SOCIAL SCIENCE	(See SIUC Equivalency Guide)	Τ
			SOCIAL SCIENCE	(See SIDE Equivalency Guide)	3
			-	(Coo CILIC Equivalence: Quide)	з   Т
	IAI Humanities*	3	HUMANITIES	(See SIUC Equivalency Guide)	
					N/
			PHYS 203A -and- 253A	College Physics w/Lab	4
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
	tisfy a World Cultures and Diversity requirement		MULTICULTURAL		3
		15			16
Program Requireme	nts		Program Requirements		
MFT 102	Intro to Manufacturing & Safety	4		1	
MFT 105	Machining Processes I	3	1		
MFT 120	Machining Processes II	3	-		
	Machining Processes III	3	-		
MFT 121			-		
MFT 123	Intro to CNC Machining	4			
MFT 125	CNC Lathe Operation & Programming	4		nology - Precision Machining as articulated fufills	
MFT 128	CNC Mill Operation & Programming	4		ourse requirements for the BS degree in Industri	al
MFT 128 MFT 132	CNC Mill Operation & Programming Dimensional Metrology	4		ourse requirements for the BS degree in Industri ent & Applied Engineering (IMAE).	al
		_			al
MFT 132	Dimensional Metrology	3 3			al
MFT 132 MFT 134 MFT 140	Dimensional Metrology Print Reading for Industry Quality Assurance	3 3 3			a
MFT 132 MFT 134 MFT 140 MFT 210	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3			al
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance	3 3 3 3 3 3			a
MFT 132 MFT 134 MFT 140 MFT 210	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem		ai
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3	Managem	ent & Applied Engineering (IMAE).	
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B	ent & Applied Engineering (IMAE).	4
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110	ent & Applied Engineering (IMAE).	4
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208	ent & Applied Engineering (IMAE).	4333
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety	43333
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc	4 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision	4 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc	4 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision Production & Inventory Management Cost Estimating	4 3 3 3 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375	College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision Production & Inventory Management	4 3 3 3 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 375 IMAE 375 IMAE 390	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design	4 3 3 3 3 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442	College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 307 IMAE 307 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445	College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305 IMAE 307 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305 IMAE 307 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 465	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B MAE 10 MAE 10 MAE 208 MAE 305 MAE 305 MAE 307 MAE 340 MAE 375 MAE 390 MAE 392 MAE 442 MAE 445 MAE 445 MAE 455 MAE 450 MAE 470A	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 375 IMAE 392 IMAE 442 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470A	College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305 IMAE 340 IMAE 340 IMAE 340 IMAE 375 IMAE 340 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 476	College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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 I Supply Chain Management	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 375 IMAE 392 IMAE 442 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470A	College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 3 3 5	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305 IMAE 340 IMAE 340 IMAE 340 IMAE 375 IMAE 340 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 476	College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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 I Supply Chain Management	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220 Technical Electives	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing Computer Aided Manufacturing	3 3 3 3 5 45	Managem PHYS 203B -and- 253B MAE 10 MAE 10 MAE 208 MAE 305 MAE 305 MAE 307 MAE 340 MAE 375 MAE 390 MAE 392 MAE 442 MAE 445 MAE 450 MAE 455 MAE 450 MAE 470A MAE 470B MAE 476 MAE Electives	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220 Technical Electives	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing	3 3 3 3 5 45	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 305 IMAE 340 IMAE 340 IMAE 340 IMAE 375 IMAE 340 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 476	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220 Technical Electives	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing Computer Aided Manufacturing	3 3 3 3 5 45	Managem PHYS 203B -and- 253B MAE 10 MAE 10 MAE 208 MAE 305 MAE 305 MAE 307 MAE 340 MAE 375 MAE 390 MAE 392 MAE 442 MAE 445 MAE 450 MAE 455 MAE 450 MAE 470A MAE 470B MAE 476 MAE Electives	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220 Technical Electives	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing Computer Aided Manufacturing	3 3 3 3 5 45	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 307 IMAE 375 IMAE 375 IMAE 390 IMAE 375 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 470 IMAE 470A IMAE 470B IMAE 470B IMAE Electives Total semester hrs completed w	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220 Technical Electives	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing Computer Aided Manufacturing	3 3 3 3 5 45	Managem PHYS 203B -and- 253B MAE 10 MAE 10 MAE 208 MAE 305 MAE 305 MAE 307 MAE 340 MAE 375 MAE 390 MAE 392 MAE 442 MAE 445 MAE 450 MAE 455 MAE 450 MAE 470A MAE 470B MAE 476 MAE Electives	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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	ai 4 3 3 3 3 3 3 3 3 3 3 3 3 3
MFT 132 MFT 134 MFT 140 MFT 210 MFT 220 Technical Electives	Dimensional Metrology Print Reading for Industry Quality Assurance Computer Integrated Manufacturing Computer Aided Manufacturing	3 3 3 3 5 45	Managem PHYS 203B -and- 253B IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 307 IMAE 375 IMAE 375 IMAE 390 IMAE 375 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 470 IMAE 470A IMAE 470B IMAE 470B IMAE Electives Total semester hrs completed w	ent & Applied Engineering (IMAE). College Physics w/Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc 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 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3