	0.4		On with a mar IIII and a Harbon market On other 12.1		
Prairie State College 2023-20			Southern Illinois University Carbondale	: (11445) 1001	
AS CAD/Mechanical Design T	echnology - 64 hrs		BS Industrial Management and Applied Engineer		
			UNIVERSITY CORE CURRICULUM (UCC) CAP	STONE OPTION - 30 hrs	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
COMM 101	Principles of Communication	3	CMST 101	Intro to Oral Communication	T
ENG 101	Composition I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
MATH 151 (recommended)	College Algebra	4	MATH 108 (Required for BS degree)	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
PHYSI 120 (recommended)	College Physics I	4	PHYS 203A/253A (Required for BS degree)	College Physics w/ Lab	Т
	,		LIFE SCIENCE	,	3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		20			12
					14
Program Requirements			Program Requirements		
CADMD 141	Technical Drafting	3	i rogram nequirements		
CADMD 141	Mechanical Layout and Design I	3	-		
CADMD 201	Introduction to AutoCAD	3	-		ļ
					ļ
CADMD 244 MT 101	Intermediate AutoCAD	3			
	Machining Basics – Measurement, Materials, & Safety	3			
			The AAC demand in CAD/Mechanical Design To		
MT 102	Machining Job Planning, Benchwork and Layout	3		echnology as articulated fulfills the 22 hrs of tech	
MT 102 MT 210	Machining Job Planning, Benchwork and Layout CNC Milling Level I	3		echnology as articulated fulfills the 22 hrs of tech in Industrial Management & Applied Engineering	
MT 102 MT 210 MT 211	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1	3			
MT 102 MT 210 MT 211 MT 214	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems	3 3 3			
MT 102 MT 210 MT 211 MT 214 MT 220	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous	3 3 3 2			
MT 102 MT 210 MT 211 MT 214 MT 220 Electives	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268	3 3 3 2 7			
MT 102 MT 210 MT 211 MT 214 MT 220 Electives FECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4	course requirements for the BS degree	in Industrial Management & Applied Engineering	(IMAE).
MT 102 MT 210 MT 211 MT 214 MT 220 Electives FECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268	3 3 3 2 7 4 4			
MT 102 MT 210 MT 211 MT 214 MT 220 Electives FECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree)	in Industrial Management & Applied Engineering College Physics w/ Lab	(IMAE).
MT 102 MT 210 MT 211 MT 214 MT 220 Electives	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110	College Physics w/ Lab Geometric Dimensioning & Tolerancing	(IMAE).
MT 102 MT 210 MT 211 MT 214 MT 220 Electives FECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree)	in Industrial Management & Applied Engineering College Physics w/ Lab	(IMAE).
MT 102 MT 210 MT 211 MT 214 MT 220 Electives FECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110	College Physics w/ Lab Geometric Dimensioning & Tolerancing	(IMAE). T 3
MT 102 MT 210 MT 211 MT 214 MT 220 Electives FECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208	in Industrial Management & Applied Engineering College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes	(IMAE). T 3 3
MT 102 MT 210 MT 211 MT 214 MT 220 Electives FECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety	(IMAE).
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307	in Industrial Management & Applied Engineering College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech	(IMAE).
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 375 IMAE 390	in Industrial Management & Applied Engineering College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and Inventory Management Cost Estimating	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 375 IMAE 390 IMAE 390 IMAE 392	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MT 102 MT 210 MT 211 MT 214 MT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442	College Physics w/ Lab College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership	(IMAE). T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 340 IMAE 392 IMAE 392 IMAE 442 IMAE 445	College Physics w/ Lab College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 465	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MT 102 MT 210 MT 211 MT 214 MT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 450 IMAE 470A	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MT 102 MT 210 MT 211 MT 214 MT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 465 IMAE 470A IMAE 470B	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and 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	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
AT 102 AT 210 AT 211 AT 214 AT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 340 IMAE 392 IMAE 492 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 470B IMAE 476	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and 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	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
IT 102 IT 210 IT 211 IT 214 IT 220 lectives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 340 IMAE 375 IMAE 390 IMAE 390 IMAE 450 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and 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 (Must be at 300/400 level)	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
1T 102 IT 210 IT 211 IT 214 IT 220 lectives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics	3 3 3 2 7 4 4	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 375 IMAE 340 IMAE 392 IMAE 492 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 470B IMAE 476	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and 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 (Must be at 300/400 level)	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MT 102 MT 210 MT 211 MT 214 MT 220 Electives ECH 109 PHYSI 130 (recommended)	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics College Physics II	3 3 3 2 7 4 4 4 44	PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 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 470B IMAE 470 IMAE 470B IMAE 470 IMAE Blective ***PSYC 323 is an option for on-campus students	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and 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 (Must be at 300/400 level)	(IMAE). T 3 3 3 3 3 3 3 3 3 3 3 3 48
MT 102 MT 210 MT 211 MT 214 MT 220 ECH 109 HYSI 130 (recommended)	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics College Physics II	3 3 3 2 7 4 4 4 44	Course requirements for the BS degree PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 IMAE 305 IMAE 307 IMAE 340 IMAE 340 IMAE 375 IMAE 390 IMAE 390 IMAE 450 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Elective	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and 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 (Must be at 300/400 level)	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MT 102 MT 210 MT 211 MT 214 MT 220 Electives ECH 109	Machining Job Planning, Benchwork and Layout CNC Milling Level I CNC Turning Level 1 CAD/CAM Systems Metallurgy - Ferrous CADMD 203, 245, 248, 249; MT 215; WELD 268 Technical Mathematics College Physics II	3 3 3 2 7 4 4 4 44	PHYS 203B/253B (Required for BS degree) IMAE 110 IMAE 208 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 470B IMAE 470 IMAE 470B IMAE 470 IMAE Blective ***PSYC 323 is an option for on-campus students	College Physics w/ Lab Geometric Dimensioning & Tolerancing Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech Intro to Supervision Production and 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 (Must be at 300/400 level)	(IMAE). T 3 3 3 3 3 3 3 3 3 3 3 3 3 48