	DEGREE PLAN				
Waubonsee Community College 2022-2023 AAS Computer Aided Design and Drafting: Mechanical Emphasis - 60 hrs			Southern Illinois University Carbondale		
			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (UCC) - Capsto	one Option - 30 hrs	
		Hrs	` ' '	•	Hrs
			UNIV 101	Saluki Success	NA
COM 100 F	Fundamentals of Speech Communication	3	CMST 101	Intro to Oral Communication	T
	First-Year Composition I	3	ENGL 101	English Composition I	T
	First-Year Composition II	3	ENGL 102	English Composition II	T
	Algebra for Business and Social Science	3	MATH 108 (Required for BS degree)	College Algebra	Ť
IAI SOCIAL SCIENCE	See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	osnogo / ngosia	Ť
			SOCIAL SCIENCE		3
			HUMANITIES		3
			HUMANITIES		NA
			PHYS 203/253A (Required for BS degree)	College Physics/Lab	4
			LIFE SCIENCE	00.10g0 1 1.1y0.00,2u2	3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		15			19
					10
Core Requirements			Program Requirements		
	AutoCAD I	3	g. a toquii omonto	1	1
	AutoCAD II	3	1		
-	Engineering Graphics	3	=		
LGIC 101	Ingilieering Graphics	9	-		
Mechanical		-	=		
	ntro to Parametric Modeling Using SolidWorks	3	-		
	ntro to Parametric Modeling Using Inventor	3	The AAS degree in Computer Aided Design	n and Drafting as articulated fulfills the 22 hours of tec	hnical alactives
	Advanced Parametric Modeling Using SolidWorks	3		in Industrial Management & Applied Engineering (IMAE	
	Advanced Parametric Modeling Using Solidworks Advanced Parametric Modeling Using Inventor	3	required for the B3 degree	in industrial management & Applied Engineering (IMAE).
	Safety Principles	1	-		
	Print Reading for Machine Trades	3	_		
	Manual Machine Shop Operations	3			
	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR,				
PROGRAM ELECTIVES H	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course	3 12	00 000	10 amounts Consents	
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3	CS 200B	Computer Concepts	T
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course	3 12 3 2	CS 200B IMAE 110 (Required for BS degree)	Computer Concepts Geometric Dimensioning & Tolerancing	T T
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3	IMAE 110 (Required for BS degree)	Geometric Dimensioning & Tolerancing	Т
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B	Geometric Dimensioning & Tolerancing College Physics/Lab	T 4
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes	4 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety	4 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc	4 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323**	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych	4 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management	T 4 3 3 3 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating	T 4 3 3 3 3 3 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design	T 4 3 3 3 3 3 3 3 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 390 IMAE 442	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership	4 3 3 3 3 3 3 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing	T 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management	T 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 H	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 465	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing	T 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 H	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 465 IMAE 470A	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 465 IMAE 470A IMAE 470B	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 B	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 465 IMAE 470A	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 H	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 465 IMAE 470A IMAE 470B	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 H	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE Electives	Geometric Dimensioning & Tolerancing College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CIS 110 B CAD 122 G	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems Geometric Dimensioning/Tolerancing	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Electives **PSYC 323 is an option for on-campus stude	College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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) ents only & requires PSYC 102 as a prerequisite	T 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5
CIS 110 H	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems Geometric Dimensioning/Tolerancing	3 12 3 2	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE Electives	College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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) ents only & requires PSYC 102 as a prerequisite	T 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 6
CIS 110 B CAD 122 G	Manual Machine Shop Operations Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course Business Information Systems Geometric Dimensioning/Tolerancing	3 12 3 2 45	IMAE 110 (Required for BS degree) PHYS 203/253B IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Electives **PSYC 323 is an option for on-campus stude	College Physics/Lab Fundamentals of Manufacturing Processes Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych 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) ents only & requires PSYC 102 as a prerequisite	T 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5