

PROGRAM ARTICULATION DEGREE PLAN					
Waubonsee Community College 2022-2023			Southern Illinois University Carbondale		
AAS Computer Aided Design and Drafting: Mechanical Emphasis - 60 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (UCC) - Capstone Option - 30 hrs		
		Hrs		Hrs	
			UNIV 101	Saluki Success	NA
COM 100	Fundamentals of Speech Communication	3	CMST 101	Intro to Oral Communication	T
ENG 101	First-Year Composition I	3	ENGL 101	English Composition I	T
ENG 102	First-Year Composition II	3	ENGL 102	English Composition II	T
MATH 109	Algebra for Business and Social Science	3	MATH 108 (Required for BS degree)	College Algebra	T
IAI SOCIAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE		T
			SOCIAL SCIENCE		3
			HUMANITIES		3
			HUMANITIES		NA
			PHYS 203/253A (Required for BS degree)	College Physics/Lab	4
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		15			19
Core Requirements			Program Requirements		
CAD 102	AutoCAD I	3	<p>The AAS degree in Computer Aided Design and Drafting as articulated fulfills the 22 hours of technical electives required for the BS degree in Industrial Management & Applied Engineering (IMAE).</p>		
CAD 120	AutoCAD II	3			
EGR 101	Engineering Graphics	3			
		9			
Mechanical					
CAD 240	Intro to Parametric Modeling Using SolidWorks	3			
CAD 241	Intro to Parametric Modeling Using Inventor	3			
CAD 242	Advanced Parametric Modeling Using SolidWorks	3			
CAD 243	Advanced Parametric Modeling Using Inventor	3			
MTT 100	Safety Principles	1			
MTT 110	Print Reading for Machine Trades	3			
MTT 115	Manual Machine Shop Operations	3			
PROGRAM ELECTIVES	Select 6 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course	12			
CIS 110	Business Information Systems	3	CS 200B	Computer Concepts	T
CAD 122	Geometric Dimensioning/Tolerancing	2	IMAE 110 (Required for BS degree)	Geometric Dimensioning & Tolerancing	T
		45			
			PHYS 203/253B	College Physics/Lab	4
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calc for Tech -or- Short Course in Calc	3
			IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Organizational Psych	3
			IMAE 375	Production and Inventory Management	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Planning & Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated Manufacturing	3
			IMAE 450	Project Management	3
			IMAE 465	Lean Manufacturing	3
			IMAE 470A	Six Sigma Green Belt I	3
			IMAE 470B	Six Sigma Green Belt II	3
			IMAE 476	Supply Chain Management	3
			IMAE Electives	(Must be at 300/400 level)	6
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		52
Total semester hrs completed w/ AAS degree		60	Total semester hrs completed w/ BS degree		71
<i>Plan updated 11/14/2022-LB</i>			Total hours to BS degree:		131