

PROGRAM ARTICULATION DEGREE PLAN					
Wauboonsee Community College 2022-2023		Southern Illinois University Carbondale			
AAS Computer Aided Design and Drafting: Design Emphasis - 60 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs			
		University Core Curriculum (UCC) - Capstone Option - 30 hrs			
		Hrs	Hrs		
COM 100	Fundamentals of Speech Communication	3	UNIV 101 Saluki Success	NA	
ENG 101	First-Year Composition I	3	CMST 101 Intro to Oral Communication	T	
ENG 102	First-Year Composition II	3	ENGL 101 English Composition I	T	
MATH 109	Algebra for Business and Social Science	3	ENGL 102 English Composition II	T	
IAI SOCIAL SCIENCE	See SIUC Equivalency Guide	3	MATH 108 (Required for BS degree) College Algebra	T	
			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: Design Emphasis as articulated fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering.</p>		
CAD 120	AutoCAD II	3			
EGR 101	Engineering Graphics	3			
		9			
Design Emphasis					
CAD 125	Microstation I	3			
CAD 127	Residential Architecture	3			
CAD 129	Commercial Architecture	3			
CAD 131	Civil Engineering	3			
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			
CAD 270	Product Design and Development	3			
PROGRAM ELECTIVES	Select 4 hrs from any AMT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course	4			
CAD 122	Geometric Dimensioning/Tolerancing	2	IMAE 110 (Required for BS degree)	Geometric Dimensioning & Tolerancing	T
CIS 110	Business Information Systems	3	CS 200B	Computer Concepts	T
		45			
<i>*Students wanting to specialize in an architectural, design or mechanical area should select electives from a specific emphasis area.</i>			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
			<i>**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite</i>		52
Total semester hrs completed w/ AAS degree		60	Total semester hrs completed w/ BS degree		71
Plan updated 11/14/2022-LB			Total hours to BS degree:		131