

PROGRAM ARTICULATION DEGREE PLAN			
Southwestern Illinois College 2024-2025		Southern Illinois University Carbondale	
AAS Computer Aided Design Machine Specialization - 69 hrs		BS Industrial Management & Applied Engineering (IMAE) - 120 hrs	
		University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs	Hrs
		UNIV 101	Saluki Success
COMM 151	Fundamentals of Public Speaking	3	CMST 101
ENG 101	Rhetoric & Composition I	3	ENGL 101
			ENGL 102
MATH 112	College Algebra	4	MATH 108
	Social Science	3	SOCIAL SCIENCE
			SOCIAL SCIENCE
	Human Relations Course	3	HUMANITIES
			HUMANITIES
			PHYS 203A -and- 253A
			LIFE SCIENCE
			FINE ARTS
	Human Well-Being Course	2	HUMAN HEALTH
			MULTICULTURAL
		<b>18</b>	
			<b>16</b>
<b>Program Requirements</b>		<b>Program Requirements</b>	
CAD 101	Basic Drafting	4	<b>The AAS degree in Computer Aided Design Machine Specialization as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management &amp; Applied Engineering (IMAE).</b>
CAD 102	Intermediate Drafting	4	
CAD 120	Introductory CAD	4	
CAD 220	Advanced CAD I	3	
CAD 221	Advanced CAD II	4	
CAD 222	Machine CAD Post Assessment	1	
CAD 292	Supervised Internship III	3	
Machine Specialization Crs		16	
Machine Specialization Crs		12	
		<b>51</b>	
		PHYS 203B -and- 253B	College Physics w/Lab
		IMAE 110	Geometric Dimensioning & Tolerancing
		IMAE 208	Fundamentals of Manufacturing Processes
		IMAE 305	Industrial Safety
		IMAE 307	Applied Calc for Tech
		IMAE 340	Intro to Supervision
		IMAE 375	Production & Inventory Management
		IMAE 390	Cost Estimating
		IMAE 392	Facilities Planning & Workplace Design
		IMAE 442	Fundamentals of Leadership
		IMAE 445	Computer Integrated Manufacturing
		IMAE 450	Project Management
		IMAE 465	Lean Manufacturing
		IMAE 470A	Six Sigma Green Belt I
		IMAE 470B	Six Sigma Green Belt II
		IMAE 476	Supply Chain Management
		IMAE Elective	300/400 level
			<b>52</b>
<b>Total semester hrs completed w/AAS degree:</b>		<b>69</b>	<b>Total semester hrs completed w/BS degree:</b>
			<b>68</b>
			<b>Total hours to BS degree:</b>
			<b>137</b>
<i>Degree Plan updated on 5/29/24 by SG</i>			