

PROGRAM ARTICULATION DEGREE PLAN								
Waubonsee Community College 2024-2025			Southern Illinois University Carbondale					
AAS Advanced Manufacturing Technology - 60 hrs			BS Industrial Management & Applied Engineering (IMAE) - 120 hrs					
			University Core Curriculum (UCC) - Capstone Option - 30 hrs					
		Hrs		Hrs				
COM 100	Fundamentals of Speech Comm	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			
MTH 109	Algebra for Business & Social Science	3	ENGL 102	English Composition II	T			
	Social & Behavioral Sciences	3	MATH 108	College Algebra	T			
			SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T			
			SOCIAL SCIENCE		3			
			HUMANITIES		3			
			HUMANITIES		NA			
			PHYS 203A -and- 253A	College Physics w/Lab	4			
			LIFE SCIENCE	Students take 2 physics courses	3			
			FINE ARTS		3			
			HUMAN HEALTH		NA			
			MULTICULTURAL		3			
		15			19			
Program Requirements			Program Requirements					
AMT 100	Intro to Manufacturing Automation Systems	3	<p style="text-align: center;">The AAS degree in Advanced Manufacturing Technology as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).</p>					
EGR 101	Engineering Graphics	3						
MTT 100	Safety Principles	1						
MTT 108	Machining Fundamentals	3						
MTT 110	Print Reading for Machine Trades	3						
MTT 111	Metrology/Mechanical Inspection	2						
MTT 112	Properties of Materials	3						
MTT 115	Manual Machine Shop Operations	3						
MTT 125	CNC Mill Operations & Programming	3						
MTT 126	CNC Lathe Operations & Programming	3						
MTT 200	Advanced CNC Programming	3						
Electives	Select from list of approved courses	10						
CIS 110	Business Information Systems	3				CS 200B -or- ITEC 1XX (elective)	Computer Concepts -or- ITEC Elective 100-level	T
MTT 120	Intro to Computer Numerical Control	2				IMAE 1XX (elective)	IMAE Tech Elective 100-level	T
		45						
			PHYS 203B -and- 253B	College Physics w/Lab	4			
			IMAE 110	Geometric Dimensioning & Tolerancing	3			
			IMAE 208	Fundamentals of Manufacturing Processes	3			
			IMAE 305	Industrial Safety	3			
			IMAE 307	Applied Calc for Tech	3			
			IMAE 340	Intro to Supervision	3			
			IMAE 375	Production & 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 Elective	300/400 level	3			
					52			
Total semester hrs completed w/AAS degree:		60	Total semester hrs completed w/BS degree:		71			
			Total hours to BS degree:		131			
<i>Degree Plan updated on 5/31/24 by SG</i>								