

PROGRAM ARTICULATION DEGREE PLAN				
Waubonsee Community College 2022-2023			Southern Illinois University Carbondale	
AAS Advanced Manufacturing Technology - 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
COM 100	Fundmntls of Speech Comm	3	CMST 101	Intro to Oral Communication
ENG 101	First-Year Composition I	3	ENGL 101	English Composition I
ENG 102	First-Year Composition II	3	ENGL 102	English Composition II
MATH 109	Algebra for Business and Social Science	3	MATH 108 (Required for BS degree)	College Algebra
IAI SOCIAL SCIENCE	See SIUC Equivalency Guide	3	SOCIAL SCIENCE	See SIUC Equivalency Guide
			SOCIAL SCIENCE	3
			HUMANITIES	3
			HUMANITIES	NA
			PHYS 203/253A (Required for BS degree)	College Physics/Lab
			LIFE SCIENCE	Students take 2 physics courses
			FINE ARTS	3
			HUMAN HEALTH	NA
			MULTICULTURAL	3
		15		19
Program Requirements			Program Requirements	
AMT 100	Intro to Manufacturing Automation Systems	3	<p>The AAS degree in Advanced Manufacturing Technology as articulated fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering.</p>	
CIS 110	Business Information Systems	3		
EGR 101	Engineering Graphics	3		
MTT 100	Safety Principles	1		
MTT 108	Machining Fundamentals	3		
MTT 110	Print Reading for the Trades	3		
MTT 111	Metrology/Mechanical Inspection	2		
MTT 112	Properties of Materials	4		
MTT 115	Manual Machine Shop Operations	3		
MTT 120	Introduction to Computer Numerical Control	2		
MTT 125	CNC Mill Operations and Programming	3		
MTT 126	CNC Lathe Operations and Programming	3		
MTT 200	Advanced CNC Programming	3		
PROGRAM ELECTIVES	Select 7 hrs from any ABR, AMT, AUT, BUS, CAD, CIS, CMT, EGR, HVA, ITS, MTT or WLD course	10		
		46		
			PHYS 203/253B	College Physics/Lab
			IMAE 110	Geometric Dimensioning & Tolerancing
			IMAE 208	Fundamentals of Manufacturing Processes
			IMAE 305	Industrial Safety
			IMAE 307 -or- MATH 140	Applied Calculus for Technology -or- Short Course in Calculus
			IMAE 340 -or- PSYC 323**	Introduction to Supervision -or- Organizational Psychology
			IMAE 375	Production and Inventory Management
			IMAE 390	Cost Estimating
			IMAE 392	Facilities Planning & Workplace Design
			IMAE 442	Fundamentals of Leadership
			IMAE 445	Computer-Aided 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 Electives	(Must be at 300/400 level)
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite	6
				55
Total semester hrs completed w/ AAS degree		61	Total semester hrs completed w/ BS degree	
Plan Updated 11/9/2022 LB			Total hours to BS degree:	
				135