

PROGRAM ARTICULATION DEGREE PLAN			Southern Illinois University Carbondale					
Waubonsee Community College 2022-2023			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs					
AAS Automation Technology - 60 hrs			University Core Curriculum (UCC) - Capstone Option - 30 hrs					
		Hrs			Hrs			
COM 100 -or- COM 121	Fundamentals of Speech Communication -or- Communication in the Workplace	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	See SIUC Equivalency Guide	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			
*MTH 103 or MTH 130 suggested; see Counseling for additional elective recommendations.		15			19			
Program Requirements			Program Requirements					
AMT 100	Intro to Manufacturing Automation Systems	3	<p>The AAS degree in Automation Technology as articulated fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management &amp; Applied Engineering.</p>					
AMT 102	Basic Electricity	3						
AMT 110	Machine Fundamentals	3						
AMT 120	Automated Systems I	3						
AMT 121	Automated Systems II	3						
AMT 122	Automated Systems III	3						
AMT 130	Fluid Power	3						
AMT 200	Automated Programming I	3						
AMT 201	Automated Programming II	3						
EGR 101	Engineering Graphics	3						
MTT 100	Safety Principles	1						
MTT108	Machining Fundamentals	3						
MTT 110	Print Reading for the Trades	3						
MTT 115	Manual Machine Shop Operations	3						
CAD 122*	Geometric Dimensioning & Toler	2				IMAE 110	Geometric Dimensioning & Tolerancing	T
CIS 110	Business Information Systems	3				ITEC 229	Computing Business Admin	T
		45						
*Student may select elective in ABR, AMT, AUT, BUS, CAD, CIS, CMT, ELT, EGR, HVA, IDT, ITS, MTT or WLD			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			
<b>Total semester hrs completed w/ AAS degree</b>		<b>60</b>	<b>Total semester hrs completed w/ BS degree</b>		<b>71</b>			
			<b>Total hours to BS degree:</b>		<b>131</b>			