

PROGRAM ARTICULATION DEGREE PLAN				
College of DuPage		2024-2025		Southern Illinois University Carbondale
AAS Integrated Mechatronics & Manufacturing Technology - 68 hrs		BS Industrial Management & Applied Engineering (IMAE) - 120 hrs		
		University Core Curriculum (UCC) CAPSTONE OPTION - 30 hrs		
		Hrs		Hrs
SPEEC 1100	Fundamentals of Speech Communication	3	UNIV 101	Saluki Success
ENGLI 1101	English Composition I	3	CMST 101	Intro to Oral Communication
			ENGL 101	English Composition I
			ENGL 102	English Composition II
MATH 1431	Precalculus I	3	MATH 108	College Algebra
PSYCH 1100	General Psychology	3	PSYC 102	Intro to Psychology
			SOCIAL SCIENCE	
	Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide
			HUMANITIES	
PHYSI 1201	General Physics I	5	PHYS 203A -and- 253A	College Physics w/Lab
			LIFE SCIENCE	
			FINE ARTS	
			HUMAN HEALTH	
	Multicultural	3	MULTICULTURAL	See SIUC Transfer Equivalency Guide
		23		9
Program Requirements		Program Requirements		
Program Electives	Choose from ELECT -or- ELMEC Courses	7	An AAS in Integrated Mechatronics & Manufacturing Technology as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE)	
ELECT 1101	Circuits I	3		
ELMEC 1110	Motor & Generator Fundamentals	3		
ELMEC 1141	Hydraulics & Pneumatics	3		
ELMEC 2520	Industrial Control & Data Acquisition	3		
MANUF 1101	Industrial Design/CAD	3		
MANUF 2251	Computer Numerical Control (CNC)	3		
MANUF 2252	CNC Operations	3		
MANUF 2253	Computer-Aided Manufacturing (CAM)	3		
MANUF 2280	Industrial Safety	2		
ELECT 1100	Electricity & Electronics Fundamentals	3		
ELMEC 1190	Intro to Programmable Logic Controllers	3		
ELMEC 2510	Process & Automation Controls	3		
MANUF 1151	Machine Shop I	3		
		45		
			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
				52
Total semester hrs completed w/AAS degree:		68	Total semester hrs completed w/BS degree:	
			Total hours to BS Degree:	
				129
Degree Plan created on 5/9/24 by SG				