

PROGRAM ARTICULATION DEGREE PLAN				
City Colleges of Chicago	2024-2025		Southern Illinois University Carbondale	
AAS CNC Engineering Technology - 62 hrs			BS Industrial Management & Applied Engineering (IMAE) - 120 hrs	
			University Core Curriculum (UCC) - 30 hrs Capstone Option	
		Hrs		Hrs
			UNIV 101	Saluki Success
			CMST 101	Intro Oral Communication
ENGLISH 101	Composition	3	ENGL 101	English Composition I
			ENGL 102	English Composition II
MATH 140	College Algebra	4	MATH 108	College Algebra
	IAI Social & Behavioral Science*	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide
			SOCIAL SCIENCE	
	IAI Humanities/Fine Arts*	3	HUMANITIES	See SIUC Transfer Equivalency Guide
			HUMANITIES	
PHYSICS 231	General Physics I	4	PHYS 203A -and- 253A	College Physics w/Lab
			LIFE SCIENCE	
			FINE ARTS	
			HUMAN HEALTH	
			MULTICULTURAL	
		17		15
*At least 1 course must meet Human Diversity requirements				
Program Requirements			Program Requirements	
340 MFGT 105	Intro to Advanced Manufacturing I	3	The AAS degree in CNC Engineering Technology as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).	
340 MFGT 106	Intro to Advanced Manufacturing II	3		
340 MFGT 107	Intro to Advanced Manufacturing III	3		
340 MFGT 108	Robotics I	3		
340 MFGT 109	Intro to Manual Machining	3		
340 MFGT 110	CNC I Operations	3		
340 MFGT 153 -or- 195	Welding I GMAW -or- Manual Machining II	3		
340 MFGT 160	CNC II Operations & Programming	3		
340 MFGT 170	CAD I	3		
340 MFGT 171	Automated Metrology-Quality Assurance	3		
340 MFGT 172	Quality Systems I	3		
340 MFGT 209	Computer Aided Manufacturing (CAM) I	3		
340 MFGT 210	Automated Fabrication I	3		
340 MFGT 260	CNC III - Advanced Operations	3		
340 MFGT 274	Materials II - Testing & Analysis	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 with AAS degree:		62	Total semester hrs completed with BS degree:	
			Total hrs to BS degree:	
			129	
Degree Plan updated on 5/17/24 by SG				