

PROGRAM ARTICULATION DEGREE PLAN			
Richard J. Daley College - City Colleges of Chicago 2021-2022		Southern Illinois University Carbondale	
AAS CNC Engineering Technology		BS Industrial Management and 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
SOCIAL SCIENCE*	(See SIU Transfer Guide)	3 SOCIAL SCIENCE	
		SOCIAL SCIENCE	
HUMANITIES/FINE ARTS*	(See SIU Transfer Guide)	3 HUMANITIES	
PHYSICS 231	General Physics I	4 PHYS 203A/253A	College Physics/Lab
		LIFE SCIENCE	(Students take 2 Physics courses)
		FINE ARTS	
		HEALTH	
		MULTICULTURAL	
		<b>17</b>	<b>12</b>
*At least 1 course must meet Human Diversity requirements			
Program Requirements		Program Requirements	
340 MFGT 105	Intro to Advanced Manufacturing 1	3	<p align="center"><b>The AAS degree in CNC Engineering Technology as articulated fulfills the 22 hours of technical elective requirements for the BS degree in Industrial Management and Applied Engineering.</b></p>
340 MFGT 106	Intro to Advanced Manufacturing 2	3	
340 MFGT 107	Intro to Advanced Manufacturing 3	3	
340 MFGT 108	Robotics 1	3	
340 MFGT 109	Introduction to Manual Machining	3	
340 MFGT 110	CNC 1 Operations	3	
340 MFGT 153	Welding 1 GMAW	3	
340 MFGT 160	CNC 2 Operations and Programming	3	
340 MFGT 170	CAD 1	3	
340 MFGT 171	Metrology 2 Quality Assurance	3	
340 MFGT 172	Quality Systems 1	3	
340 MFGT 209	Computer Aided Manufacturing (CAM) 1	3	
340 MFGT 210	Automated Fabrication 1	3	
340 MFGT 260	CNC 3 - Advanced Operations	3	
340 MFGT 274	Materials 2 Testing and Analysis	3	
		<b>45</b>	
		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 Calc
		IMAE 340 -or- PSYC 343*	Intro 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 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 Electives	(Must be at 300/400 level)
			<b>52-53</b>
<b>Total semester hrs completed with AAS degree:</b>		<b>62</b>	<b>Total semester hrs completed with BS degree:</b>
			<b>64-65</b>
<b>Total hrs to BS degree:</b>			<b>126-127</b>
*Note: PSYC 323 instead of IMAE 340 is an option for on-campus students only			
Degree Plan created on 10/6/2021 by SW			