

PROGRAM ARTICULATION DEGREE PLAN				
Rock Valley College	2024-2025		Southern Illinois University Carbondale	
AAS Manufacturing Engineering Technology - 65 hrs			BS Industrial Management & Applied Engineering (IMAE) - 120 hrs	
			UCC Capstone Option - 30 hrs	
		Hrs		Hrs
			UNIV 101	Saluki Success
SPH 131	Fundamentals of Communication	3	CMST 101	Intro to Oral Communication
ENG 101	Composition I	3	ENGL 101	English Composition I
ENG 103 -or- 110	Composition II -or- Intro to Technical Writing	3	ENGL 102	English Composition II
MTH 120	College Algebra	3	MATH 108	College Algebra
			SOCIAL SCIENCE	3
			SOCIAL SCIENCE	3
			HUMANITIES	3
			HUMANITIES	NA
			PHYS 203A -and- 253A	College Physics w/Lab
			LIFE SCIENCE	3
			FINE ARTS	3
			HUMAN HEALTH	NA
			MULTICULTURAL	3
		12		22
Program Requirements			Program Requirements	
EET 141	DC/AC Circuits & Electronics I	4	The AAS degree in Manufacturing Engineering Technology as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).	
EET 254	Robotics & Automated Systems	3		
MET 100	Introductory CAD & Print Reading	3		
MET 105	Materials & Processes	3		
MET 106	Metrology	3		
MET 110	Manufacturing Processes I	3		
MET 111	CNC Machine Setup/Operation/Programming	3		
MET 133	Graphics/SolidWorks CAD I	3		
MET 146	Hydraulics, Pneumatics & PLCs	3		
MET 162	Applied Physics	4		
MET 217	Applied Statics	3		
MET 218	Strength of Materials	3		
MET 243	Continuous Improvement in Manufacturing	3		
MET 249	MET Capstone Project	3		
Electives	Select from list of approved courses	6		
MTH 125	Plane Trigonometry	3	MATH 109 (elective)	Trigonometry & Analytic Geometry
		53		
			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:		65	Total semester hrs completed with BS degree:	74
			Total hrs to BS degree:	139
<i>Degree Plan created on 5/16/24 by SG</i>				