

PROGRAM ARTICULATION DEGREE PLAN					
Rend Lake College 2023-2024			Southern Illinois University Carbondale		
AAS Manufacturing Technology - 64 hours			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
ENGL 1101	Rhetoric and Composition I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
COMM 1101	Principles of Effective Speaking	3	CMST 101	Intro to Oral Communication	T
MATH 1108*	College Algebra	3	MATH 108 (Required for BS degree)	College Algebra	T
PSYC 2101*	Intro to Psychology	3	PSYC 102	Intro to Psychology	T
	Can be completed at RLC or SIUC		SOCIAL SCIENCE		3
	Can be completed at RLC or SIUC		HUMANITIES		3
			HUMANITIES		NA
			PHYS 203/253A (Required for BS degree)	College Physics/Lab	4
			LIFE SCIENCE		NA
	Can be completed at RLC or SIUC		FINE ARTS		3
			HEALTH		NA
	Can be completed at RLC or SIUC		MULTICULTURAL		3
*Recommended to fulfill SIUC degree requirements		12			16
Program Requirements			Program Requirements		
CSCI 1101	Introduction to Computers	3	<p>The AAS degree in Manufacturing Technology as articulated fulfills the 22 hours of technical electives required for the BS degree in Industrial Management & Applied Engineering (IMAE).</p>		
FLPR 1262	Fluid Power Fundamentals	5			
IST 1250	Electric Motors & Control Circuits	6			
IST 1291	Basic Electronics for Technicians	5			
IST 2230	Introduction to PLCs	4			
IST 2231	Advanced PLCs	3			
MACH 1201	Machine Technology I	4			
MACH 1202	Machine Technology II	4			
MFG 1207	Safety	3			
MFG 1208	Manufacturing Processes & Production	3			
MFG 1209	Maintenance Awareness	3			
MFG 1210	Quality Practices & Measurement	3			
MFG 1230	Blueprint Reading	3			
WELD 1270	Introduction to Welding Processes	4			
		53			
			PHYS 203/253B	College Physics/Lab	4
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calculus for Technology -or- Short Course in Calculus	3-4
			IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Organizational Psychology	3
			IMAE 376	Supply Chain Operations & Logistics	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Plan/Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer-Aided Manufacturing	3
			IMAE 450	Project Management	3
			IMAE 465	Lean Manufacturing	3
			IMAE 470A	Six Sigma Green Belt	3
			IMAE 470B	Six Sigma Green Belt II	3
			IMAE 476	Supply Chain Design & Strategy	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		55-56
Total semester hrs completed w/ AAS degree		65	Total semester hrs completed w/ BS degree:		71-72
			Total hours to BS degree:		136-137
Degree plan created by KD 4/7/2023					