

PROGRAM ARTICULATION DEGREE PLAN					
<b>Rend Lake College 2023-2024</b>			<b>Southern Illinois University Carbondale</b>		
AAS Industrial Electronics & Maintenance Technician - 65 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			<b>University Core Curriculum (UCC) Capstone Option - 30 hrs</b>		
		<b>Hrs</b>			<b>Hrs</b>
ENGL 1101	Rhetoric and Composition I	3	UNIV 101	Saluki Success	NA
			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	Introduction to Psychology	3	PSYC 102	Introduction 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	College Physics/Lab	4
			LIFE SCIENCE, GRP II	Students take 2 physics courses	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		<b>12</b>			<b>16</b>
<b>Program Requirements</b>			<b>Program Requirements</b>		
CSCI 1101	Introduction to Computers	3	<b>The AAS degree in Industrial Electronics &amp; Maintenance Technology as articulated fulfills the 22 hours of technical elective requirements for the BS in Industrial Management and Applied Engineering (IMAE)</b>		
ELEC 1210	National Electric Code	3			
FLPR 1262	Fluid Power Fundamentals	5			
IST 1291	Basic Electronics for Technicians	5			
IST 1221	Industrial Safety	2			
IST 1230	Introduction to Robotics	3			
IST 1250	Electric Motors and Control Circuits	6			
IST 1265	Solid State Electronics	4			
IST 2230	Introduction to PLCs	4			
IST 2231	Advanced Programmable Controllers	3			
IST 2232	Branded Controllers & Industrial PCs	3			
IST 2258	Automated Control Systems	4			
MACH 1201	Machining Technology I	4			
WELD 1270	Intro to Welding Processes	4			
		<b>53</b>			
			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 375	Production and Inventory Management	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 Management	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		<b>55-56</b>
<b>Total semester hrs completed w/ AAS degree</b>		<b>65</b>	<b>Total semester hrs completed w/ BS degree:</b>		<b>71-72</b>
<i>Degree plan updated by KD 4/7/2023</i>			<b>Total hours to BS degree:</b>		<b>136-137</b>