PROGRAM ARTICULATION DEGREE PLAN					
John A. Logan College	***2020-2021***		***Southern Illinois University Carbondale***		
AAS Mechatronics Engineering Technology - 65 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			**Hrs**
ORI 100	College 101	1	UNIV 101	Saluki Success	NA
ENG 101	English Composition I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
COM 115	Speech	3	CMST 101	Intro to Oral Communication	T
MAT 111	Pre-Calculus	5	MATH 111 (Fulfills BS degree requirement)	Precalculus	T
			SOCIAL SCIENCE		3
			SOCIAL SCIENCE		3
			HUMANITIES		3
			HUMANITIES		NA
PHY 155	College Physics I	5	PHYS 203/253A (Required for BS degree)	College Physics/Lab	T
			LIFE SCIENCE, GRP II	Student take 2 physics courses	NA
			FINE ARTS		3
			HEALTH		NA
			MULTICULTURAL		3
		17			**15**
Program Requirements			**Program Requirements**		
ELT 102	Basic Electricity and Wiring	4			
ELT 103	Applied DC/AC Circuits	4			
ELT 104	Introduction to VFDs	2			
ELT 111	Digital Electronics	3			
ELT 112	Digital Electronics II	3			
ELT 150	Applied Solid State Electronics	3	**The AAS degree in Mechatronics Engineering Technology as articulated fulfills the 22 hours of technical electives required for the BS degree in Industrial Management and Applied Engineering (IMAE).**		
ELT 151	Applied Solid State Circuits	3			
ELT 214	A+ Preparation IT Technician	3			
ELT 218	Introduction to Network Technologies	3			
ELT 224	Power Distribution and Motors	3			
IDM 210	Hydraulics & Pneumatics	3			
MFT 103	Industrial Robots & PLCs	3			
MFT 201	PLC Manufacturing Systems	3			
MAT 131	Calculus I	5	IMAE 307 (Required for BS degree)	Applied Calculus for Technology	T
EGR 101	Engineering Graphics	3	ME 102 (Elective)	Computer Aided Drawing	T
		48			
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			PHYS 203/253B	College Physics/Lab	4
			IMAE 305	Industrial Safety	3
			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 Planning & Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated Manufacturing	3
			IMAE 450	Project Management	3
			IMAE 465	Lean Manufacturing	3
			IMAE 470A	Six Sigma Green Belt I	3
			IMAE 470B	Six Sigma Green Belt II	3
			IMAE 476	Supply Chain Management	3
			IMAE Electives	(Must be at 300/400 level)	6
					52
Total semester hrs completed w/ AAS degree		**65**	**Total semester hrs completed w/ BS degree**		**67**
Degree Plan created on 8/18/2022 by SW			**Total hours to BS degree:**		**132**
			*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		