PROGRAM ARTICULATION DEGREE PLAN					
John A Logan College	***2024-2025***		***Southern Illinois University Carbondale***		
AAS Mechatronics Engineering Technology - 68 hrs			BS Aviation Technologies (AVT) Aviation Electronics Specialization - 120 hrs		
			(UCC) CAPSTONE OPTION - 30 Hrs		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
COM 115	Speech	3	CMST 101	Intro to Oral Communication	T
ENG 101	English Composition I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
MAT 111	Precalculus	5	MATH 111	Precalculus	T
			SOCIAL SCIENCE		3
			SOCIAL SCIENCE		3
			HUMANITIES		3
			HUMANITIES		NA
PHY 155	College Physics I	5	PHYS 203A -and- 253A	College Physics w/Lab	T
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		16			**18**
Program Requirements			**Program Requirements**		
ELT 102	Basic Electricity & Wiring	4	**An AAS in Mechatronics Engineering Technology satisfies the 42 hours of technical electives required for a BS in Aviation Technologies (AVT) Aviation Electronics Specialization.**		
ELT 104	Intro to VFDs	2			
ELT 111	Digital Electronics I	3			
ELT 112	Digital Electronics II	3			
ELT 151	Applied Solid State Circuits	3			
ELT 224	Power Distribution & Motors	3			
IDM 210	Hydraulics & Pneumatics	3			
MFT 103	Industrial Robots & PLCs	3			
MFT 201	PLC Manufacturing Systems	3			
ORI 100	College 101	1			
EGR 101	Engineering Graphics	3	ME 102 (elective)	Computer-Aided Engineering Drawing	T
ELT 103	Applied AC/DC Circuits	4	EET 245 (elective)	Introductory Circuit Theory & Applications	T
ELT 150	Applied Solid State Electronics	3	EET 150 (elective)	Intro to Electrical Engineering Technology	T
ELT 210	Supporting Computer Operating Systems	3	ITEC 2XX (elective)	ITEC Elective 200-level	T
ELT 214	Fundamentals of Computing Hardware	3	ITEC 2XX (elective)	ITEC Elective 200-level	T
ELT 218	Intro to Network Technologies	3	ITEC 224 (elective)	Network Fundamentals	T
MAT 131	Calculus I	5	IMAE 307 -or- MATH 150 (elective)	Applied Calculus for Technology -or- Calculus I	T
		52			
			AVM 376	Aviation Maintenance Management	3
			AVT 305	Cabin Environment & Jet Transport Systems	4
			AVT 310	Aircraft Electrical Systems	3
			AVT 317	Intro to Aviation Electronics	3
			AVT 318	Aviation Electronics Controls Systems	3
			AVT 321	Radio Theory & Practice	3
			AVT 327	Aircraft Communication	3
			AVT 380	Aerospace Supply Chain Logistics	3
			AVT 390	MIS for Aerospace Applications	3
			AVT 405	Flight Management Systems	3
			AVT 410	Advanced Composites	3
			AVT 465	Digital Data Bussing & EFIS	5
			AVT 470	Reliability, Maintainability, & Fault Prediction & Analysis	3
					42
Total semester hrs completed w/AAS degree:		**68**	**Total semester hrs completed w/BS degree:**		**60**
			Total hrs to BS degree:		**128**
Degree Plan created on 6/6/24 by SG					