



John A. Logan College



TRANSFER GUIDE

AAS Mechatronics Engineering Technology transferring into BS Aviation Technologies Aviation Electronics

John A Logan College Courses			
AAS Mechatronics Engineering Technology – 68 hours			
ENG 101-3	English Composition I	ELT 150-3	Applied Solid State Electronics
COM 115-3	Speech	ELT 151-3	Applied Solid State Circuits
MAT 111-5	Precalculus	ELT 210-3	Supporting Computer Operating Syst
PHY 155-5	College Physics I	ELT 214-3	Fundamentals of Computing Hardware
MAT 131-5	Calculus I	ELT 218-3	Intro to Network Technologies
EGR 101-3	Engineering Graphics	ELT 224-3	Power Distribution & Motors
ELT 102-4	Basic Electricity & Wiring	IDM 210-3	Hydraulics & Pneumatics
ELT 103-4	Applied AC/DC Circuits	MFT 103-3	Industrial Robots & PLCs
ELT 104-2	Intro to VFDs	MFT 201-3	PLC Manufacturing Systems
ELT 111-3	Digital Electronics I	ORI 100-1	College 101
ELT 112-3	Digital Electronics II		
Southern Illinois University Carbondale Courses Capstone Option			
BS Aviation Technologies (AVT) Aviation Electronics Specialization – 60 hours			
Elective-3	Social Science	AVT 318-3	Aviation Electronics Controls Systems
Elective-3	Social Science	AVT 321-3	Radio Theory & Practice
Elective-3	Humanities	AVT 327-3	Aircraft Communication
Elective-3	Life Science	AVT 380-3	Aerospace Supply Chain Logistics
Elective-3	Fine Arts	AVT 390-3	MIS for Aerospace Applications
Elective-3	Multicultural	AVT 405-3	Flight Management Systems
AVM 376-3	Aviation Maintenance Mgmt	AVT 410-3	Advanced Composites
AVT 305-4	Cabin Environ & Jet Trans Systems	AVT 465-5	Digital Data Bussing & EFIS
AVT 310-3	Aircraft Electrical Systems	AVT 470-3	Reliability, Maintainability Fault Pred Anlys
AVT 317-3	Intro to Aviation Electronics		
Total Hours to Bachelor's Degree: 128 Hours			

Questions? Contact us!

John A Logan College

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Southern Illinois University Carbondale

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Aviation Technologies

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Salary Range: \$60,000-\$84,000

Possible Careers: Aircraft Mechanic
Inspector
Powerplant Mechanic
Air Frame Mechanic
Avionics Technician

Disclaimer: You are encouraged to use this transfer guide when planning your progress towards degree completion. Following a transfer guide does not guarantee admission into the listed program. Information is attempted to be kept current; however, any curriculum changes reflected in the Undergraduate Catalog override the information on this guide. Contact your Academic Advisor for assistance in interpreting this guide.



Baccalaureate Degree Requirements

Each candidate for a bachelor's degree must complete the requirements listed:

Hour Requirements. Student must complete at least 120 semester hrs of credit. Each student must have at least 42 hrs in courses that number 300 or above from a four-year institution.

Residence Requirements. Student must complete the residency requirement by taking a total of 42 semester hrs at SIU Carbondale.

Grade Point Average Requirements. Student must have a C average for all work taken at SIU Carbondale. Some academic programs may require a higher graduating major GPA.

Compact Agreement

SIU Carbondale has recognized Illinois regionally accredited community college transferable baccalaureate-oriented Associate of Arts or Associate of Science degrees under the Compact Agreement since 1970. SIUC will continue to recognize the baccalaureate oriented associate degree (A.A. or A.S. degree) under the Illinois Articulation Initiative as satisfying SIU University Core Curriculum (UCC) requirements. The Associate of Applied Science (A.A.S.), Associate in Engineering Science (A.E.S.), the Associate in General Studies (A.G.S.), and the Associate in Fine Arts (A.F.A.) are not covered under the Compact Agreement and do not carry the same benefits as the A.A. and A.S. degrees.

Saluki Transfer Pathways

[Saluki Transfer Pathways](#) is the university's dual admission program that allows baccalaureate-oriented students at eligible community colleges intending to transfer to SIU Carbondale to benefit from early admission and pre-advisement for a baccalaureate program at SIUC. Saluki Transfer Pathways allows students to be conditionally admitted to SIU Carbondale up to two years in advance of their intended transfer term so they have access to transfer credit evaluation and the university's degree audit system. This allows students to address major specific requirements that may not be automatically fulfilled with the completion of an associate degree. Students apply to Saluki Transfer Pathways by completing the Application for Undergraduate Admission and indicating an interest in the program. To participate, students must have at least two semesters remaining at their community college. Direct questions about the Saluki Transfer Pathways program to transfer@siu.edu.

DegreeWorks

DegreeWorks is an easy-to-use, online degree audit tool specifically designed for students. Once admitted to SIU Carbondale, you can use it monitor your progress toward your degree in [Salukinet](#).

Saluki Transfer Estimator Portal (STEP)

The [Saluki Transfer Estimator Portal](#) (STEP) is a web-based tool that integrates institutional course equivalency and degree audit data to provide an unofficial credit estimation and a more seamless transfer process. STEP gives transfer students a clear roadmap for timely degree completion by providing key information about how transfer credits apply to your intended program at SIU.

PROGRAM ARTICULATION DEGREE PLAN			
John A Logan College		2024-2025	
AAS Mechatronics Engineering Technology - 68 hrs		Southern Illinois University Carbondale	
		BS Aviation Technologies (AVT) Aviation Electronics Specialization - 120 hrs	
		(UCC) CAPSTONE OPTION - 30 Hrs	
		Hrs	Hrs
		UNIV 101	Saluki Success
COM 115	Speech	3	CMST 101
ENG 101	English Composition I	3	ENGL 101
			ENGL 102
MAT 111	Precalculus	5	MATH 111
			SOCIAL SCIENCE
			SOCIAL SCIENCE
			HUMANITIES
			HUMANITIES
PHY 155	College Physics I	5	PHYS 203A -and- 253A
			LIFE SCIENCE
			FINE ARTS
			HUMAN HEALTH
			MULTICULTURAL
		16	
Program Requirements		Program Requirements	
ELT 102	Basic Electricity & Wiring	4	An AAS in Electrical 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	
ELT 103	Applied AC/DC Circuits	4	
ELT 150	Applied Solid State Electronics	3	EET 245 (elective)
ELT 210	Supporting Computer Operating Systems	3	EET 150 (elective)
ELT 214	Fundamentals of Computing Hardware	3	ITEC 2XX (elective)
ELT 218	Intro to Network Technologies	3	ITEC 2XX (elective)
MAT 131	Calculus I	5	ITEC 224 (elective)
		52	IMAE 307 -or- MATH 150 (elective)
			AVM 376
			AVT 305
			AVT 310
			AVT 317
			AVT 318
			AVT 321
			AVT 327
			AVT 380
			AVT 390
			AVT 405
			AVT 410
			AVT 465
			AVT 470
			Aviation Maintenance Management
			Cabin Environment & Jet Transport Systems
			Aircraft Electrical Systems
			Intro to Aviation Electronics
			Aviation Electronics Controls Systems
			Radio Theory & Practice
			Aircraft Communication
			Aerospace Supply Chain Logistics
			MIS for Aerospace Applications
			Flight Management Systems
			Advanced Composites
			Digital Data Bussing & EFIS
			Reliability, Maintainability, & Fault Prediction & Analysis
			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			