



TRANSFER GUIDE

AAS Mechatronics Engineering Technology transferring to BS Industrial Management & Applied Engineering

John A Logan College Courses							
AAS Mechatronics Engineering Technology – 68 hours							
ORI 100-1	College 101	ELT 112-3	Digital Electronics II				
COM 115-3	Speech	ELT 150-3	Applied Solid State Electronics				
ENG 101/113-3	English Comp I/Prof Tech Writing	ELT 151-3	Applied Solid State Circuits				
MAT 111-5	Precalculus	ELT 210-3	Supporting Computer Oper Systems				
PHY 155-5	College Physics I	ELT 214-3	Fundamentals 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 DC/AC 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						
Southern Illinois University Carbondale Courses Capstone Option							
BS Industrial Management & Applied Engineering (IMAE) – 66 hours							
Elective-3	Social Science	IMAE 390-3	Cost Estimating				
Elective-3	Social Science	IMAE 392-3	Facilities Plan & Workplace Design				
Elective-3	Humanities	IMAE 442-3	Fundamentals of Leadership				
Elective-3	Life Science	IMAE 445-3	Computer Integrated Manufacturing				
Elective-3	Fine Arts	IMAE 450-3	Project Management				
Elective-3	Multicultural	IMAE 465-3	Lean Manufacturing				
IMAE 110-3	Geometric Dimension Tolerancing	IMAE 470A-3	Six Sigma Green Belt I				
IMAE 208-3	Fund of Manufacturing Processes	IMAE 470B-3	Six Sigma Green Belt II				
IMAE 305-3	Industrial Safety	IMAE 476-3	Supply Chain Management				
IMAE 340-3	Intro to Supervision	IMAE Electives-6	300/400 level				
IMAE 375-3	Production & Inventory Mgmt						
Total Hours to Bachelor Degree: 134 hours							

Questions? Contact Us!

John A Logan College

Emily Monti, M.Ed.

Manager of Curriculum & Instruction P: 618-985-3741 extension 8514

E: emilymonti@jalc.edu

Salary Range: \$50,000-\$70,000

Possible Careers: Production Manager

Manufacturing Engineer

Quality Engineer Plant Manager Project Engineer

Southern Illinois University Carbondale

Dr. Julie Dunston, Director

School of Applied Engineering & Technology

P: 618-536-3396 E: <u>dunston@siu.edu</u>

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 <u>all work</u> 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 OkaYtheir 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 <u>Salukinet</u>.

Saluki Transfer Estimator Portal (STEP)

The <u>Saluki Transfer Estimator Portal</u> (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 I	DEGREE PLAN				
John A. Logan College	2024-2025		Southern Illinois University Carbondale		
AAS Mechatronics Engineering	g Technology - 68 hrs		BS Industrial Management & Applied Enginee	ring (IMAE) - 120 hrs	
			University Core Curriculum (UCC) Capston		
		Hrs	, , ,		Hrs
			UNIV 101	Saluki Success	NA
COM 115	Speech	3	CMST 101	Intro to Oral Communication	Т
ENG 101 -or- 113	English Composition I -or- Prof Technical Writing	3	ENGL 101	English Composition I	Т
	3		ENGL 102	English Composition II	NA
MAT 111	Precalculus	5	MATH 111	Precalculus	Т
			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
1	College i Hydico i	├	LIFE SCIENCE	College 1 Hydiod W/Eab	3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		16	MOLITOOLI OIVIL		18
		10			10
Program Requirements			Program Requirements		+-
ORI 100	College 101	1	r rogram Nequirements		
	College 101		-		
ELT 102 ELT 104	Basic Electricity & Wiring Intro to VFDs	2			
ELT 111			-		
	Digital Electronics I	3	The AAS degree in Machatraniae Engin	eering Technology as articulated fulfills the 15 hours of tech	miaal
ELT 112	Digital Electronics II	3			
ELT 151	Applied Solid State Circuits	3	elective course requirements for the BS	6 degree in Industrial Management & Applied Engineering (IM	IAE).
ELT 224	Power Distribution & Motors	3			
IDM 210	Hydraulics & Pneumatics	3			
MFT 103	Industrial Robots & PLCs	3	4		
MFT 201	PLC Manufacturing Systems	3		T	
MAT 131	Calculus I	5	IMAE 307	Applied Calculus for Technology	Т
EGR 101	Engineering Graphics	3	ME 102 (elective)	Computer-Aided Engineering Drawing	Т
ELT 103	Applied DC/AC Circuits	4	EET 245 (elective)	Intro Circuit Theiry & Applications	Т
ELT 150	Applied Solid State Electronics	3	EET 150 (elective)	Intro to Electrical Engineering Technology	Т
ELT 210	Supporting Computer Operating Systems	3	ITEC 2XX (elective)	ITEC Elective 200-level	Т
ELT 214	Fundamentals of Computing Hardware	3	ITEC 2XX (elective)	ITEC Elective 200-level	Т
ELT 218	Intro to Network Technologies	3	ITEC 224 (elective)	Network Fundamentals	Т
		52			
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 340	Intro to Supervision	3
			IMAE 375	Production & Inventory Management	3
			IMAE 390	Cost Estimating	3
		1	IMAE 392	Facilities Planning & Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated Manufacturing	3
			IMAE 450	Project Management	3
		1	IMAE 465	Lean Manufacturing	3
		1	IMAE 470A	Six Sigma Green Belt I	3
		1	IMAE 470B	Six Sigma Green Belt II	3
		1	IMAE 4766	Supply Chain Management	3
		1	IMAE Electives	300/400 level	6
		1	IIII LE EIGGUVGG		48
		1			40
Total competer has somelete	nd w/AAS dograps	60	Total semester hrs completed w/BS degree		66
Total semester hrs complete	eu w/AAS degree:	68	Total semester hrs completed W/BS degree	9.	66
		1	Total harmada BO da		40.0
		-	Total hours to BS degree:		134
<u></u>	711 00	1			+
Degree Plan updated on 9/13/	724 by SG	1			1
		1			