

## TRANSFER GUIDE

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

John A Logan College Courses			
AAS Mechatronics Engineering Technology – 65 hours			
ORI 100-1	College 101	ELT 112-3	Digital Electronics II
COM 115-3	Speech	ELT 150-4	Applied Solid State Electronics
ENG 101-3	English Composition I	ELT 151-3	Applied Solid State Circuits
MAT 111-5	Pre-Calculus	ELT 214-3	A+ Preparation IT Technician
PHY 155-5	College Physics I	ELT 218-3	Intro to Network Technologies
EGR 101-3	Engineering Graphics	ELT 224-3	Power Distribution and Motors
ELT 102-4	Basic Electricity and Wiring	IDM 210-3	Hydraulics & Pneumatics
ELT 103-4	Applied DC/AC Circuits	MAT 131-5	Calculus I
ELT 104-4	Introduction to VFDs	MFT 103-3	Industrial Robotics & PLCs
ELT 111-3	Digital Electronics	MFT 201-3	PLC Manufacturing Systems
Southern Illinois University Carbondale Courses			
BS Industrial Management and Applied Engineering Quality Management Specialization – 67 hours			
Elective-3	Social Science	IMAE 375-3	Production & Inventory Mgmt
Elective-3	Social Science	IMAE 390-3	Cost Estimating
Elective-3	Humanities	IMAE 392-3	Facilities Plan/Workplace Design
Elective-3	Fine Arts	IMAE 442-3	Fundamentals of Leadership
Elective-3	Multicultural	IMAE 445-3	Computer-Aided Manufacturing
PHYS 203/253A-4	College Physics/Lab	IMAE 450-3	Project Management
PHYS 203/253B-3	College Physics/Lab	IMAE 465-3	Lean Manufacturing
IMAE 110-3	Geometric Dem & Tolerancing	IMAE 470A-3	Six Sigma Green Belt I
IMAE 208-3	Fund of Manufacturing Proc	IMAE 470B-3	Six Sigma Green Belt II
IMAE 305-3	Industrial Safety	IMAE 476-3	Supply Chain Management
IMAE 340-3 -or- PSYC 323-3	Intro to Supervision -or- Organizational Psychology	Electives-6	300/400 Level IMAE Electives
Total Hours to Bachelor Degree: 132 hours			

### Questions? Contact Us!

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

**Possible Careers:** Production Manager  
Manufacturing Engineer  
Quality Engineer  
Plant Manager  
Project Engineer

**John A Logan College**  
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## 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 OkaYtheir community college. Direct questions about the Saluki Transfer Pathways program to [transfer@siu.edu](mailto: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								
<b>John A. Logan College</b>   <b>2022-2023</b>			<b>Southern Illinois University Carbondale</b>					
AAS Mechatronics Engineering Technology - 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>			
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			
		<b>17</b>			<b>15</b>			
<b>Program Requirements</b>			<b>Program Requirements</b>					
ELT 102	Basic Electricity and Wiring	4	<b>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).</b>					
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						
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
		<b>48</b>						
						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			
					<b>52</b>			
<b>Total semester hrs completed w/ AAS degree</b>		<b>65</b>	<b>Total semester hrs completed w/ BS degree</b>		<b>67</b>			
<i>Degree Plan created on 8/18/2022 by SW</i>			<b>Total hours to BS degree:</b>		<b>132</b>			
			*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite					