

## TRANSFER GUIDE

### AAS Welding Technology transferring into BS Industrial Management & Applied Engineering

John A Logan College Courses			
AAS Welding Technology – 70 hours			
ORI 100-1	College 101	WEL 154 to 159-8	Arc Welding I to VI
COM 115-3	Speech	WEL 160-2	M.I.G. Welding
ENG 101-3	English Composition I	WEL 161-2	Cored Wire Welding
MAT 108-4	College Algebra	WEL 162-1	T.I.G. Welding
SOCIAL SCIENCE-3	See SIUC Equivalency Guide	WEL 163-2	Weld Testing & Inspection
HUM/FINE ARTS-3	See SIUC Equivalency Guide	WEL 188 to 191-4	Welding Laboratory I to IV
DRT 185-2	Computer Graphics I	WEL 192-1	Introduction to Pipe Welding
DRT 192-3	Blueprint Reading	WEL 193-1	Pipe Welding
IDM 210-3	Hydraulics & Pneumatics	WEL 194-2	Pipe Welding
IND 201-2	Metallurgy	WEL 195-2	Special Problems in Welding
MAC 180-3	Blueprint Reading	WEL 196-1	M.I.G. Welding Aluminum
MAC 200-4	Machine Tool Lab	WEL 197-1	M.I.G. Welding Stainless Steel
WEL 150/151-3	Oxy-Acetylene Fusion Welding I/II	WEL 198-1	T.I.G. Welding Aluminum
WEL 152-1	Brazing & Soldering	WEL 199-1	T.I.G. Welding Stainless Steel
WEL 153-1	Oxy-Acetylene Cutting	WEL 200-2	Welding Theory
Southern Illinois University Carbondale Courses			
BS Industrial Management and Applied Engineering – 68 hours			
SOCIAL SCIENCE-3	Social Science Elective	IMAE 305-3	Industrial Safety
LIFE SCIENCE-3	Life Science Elective	IMAE 375-3	Production & Inventory Mgmt
FINE ARTS-3	Fine Arts Elective	IMAE 390-3	Cost Estimating
MULTICULTURAL-3	Multicultural Elective	IMAE 392-3	Facilities Planning/Workplace Design
PHYS 203/253A/B-8	College Physics/Lab	IMAE 442-3	Fundamentals of Leadership
IMAE 110-3	Geom Dimensioning & Tolerancing	IMAE 445-3	Computer Integrated Mfg
IMAE 208-3	Fundamentals of Mfg Processes	IMAE 450-3	Project Management
IMAE 307-3 or	Applied Calc for Technology	IMAE 465-3	Lean Manufacturing
MATH 140-3	Short Course in Calculus	IMAE 470A/B-6	Six Sigma Green Belt I/II
IMAE 340-3 or	Intro to Supervision or	IMAE 476-3	Supply Chain Management
PSY 323-3	Organizational Psychology	IMAE Electives-3	Must be at 300/400 level
Total Hours to Bachelor Degree: 138 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 their community college, [must attend an eligible community college](#), and [must select a participating SIU major](#). 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 Welding Technology - 65 Hours			BS Industrial Management and Applied Engineering Quality Management Specialization- 120 hrs		
			<b>University Core Curriculum (UCC) Capstone Option - 30 hrs</b>		
		<b>Hrs</b>			<b>Hrs</b>
ORI 101	College 101	1	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		NA
MAT 108	College Algebra	4	MATH 108 (Required for BS degree)	College Algebra	T
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE	See <i>SIUC Equivalency Guide</i>	T
			SOCIAL SCIENCE		3
	IAI HUMANITIES	3	HUMANITIES	See <i>SIUC Equivalency Guide</i>	T
			PHYS 203/253A (Required for BS degree)	College Physics/Lab	4
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		<b>17</b>			<b>16</b>
Any additional courses may be taken at John A Logan College provided they are IAI designated courses or have been articulated to meet a category within the University Core Curriculum.					
<b>Program Requirements</b>			<b>Program Requirements</b>		
CMG 107	Construction Document Interpretation	3	<b>The AAS degree in Welding Technology as articulated fulfills the 22 hours of technical electives required for the BS degree in Industrial Management and Applied Engineering (IMAE).</b>		
DRT 185	Computer Graphics I	2			
IND 201	Metallurgy	2			
IDM 210	Hydraulics & Pneumatics	3			
MAC 200	Machine Tool Laboratory	4			
MAC 180	Blueprint Reading	3			
WEL 120	OXYFUEL Welding, Cutting & Brazing	3			
WEL 121	SMAW(STICK) Plate Welding I	3			
WEL 122	GMAW (MIG) Plate Welding	3			
WEL 123	SMAW (Stick) Plate Welding II	3			
WEL 124	GTAW (TIG) Plate Welding I	3			
WEL 125	Weld Testing and Inspection	4			
WEL 126	SMAW (Stick) Welding III	3			
WEL 127	Welding & Metal Fabrication	3			
WEL 128	Pipe Welding	4			
WEL 129	GTAW (TIG) Welding II	3			
		<b>49</b>			
			PHYS 203/253B	College Physics/Lab	4
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calculus for Technology -or- Short Course in Calculus	3-4
			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 Design & Strategy	3