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SIU CARBONDALE

TRANSFER GUIDE

AES Industrial Engineering transferring to BS Industrial Management & Applied Engineering

John A Logan College Courses			
AES Industrial Engineering – 70 hours			
ORI/SCI 100-1	College 101/STEM Fundamentals	CPS 206-4	Computer Science I
COM 115-3	Speech	EGR 101-3	Engineering Graphics
ENG 101-3	English Composition I	MAT 201-5	Calculus II
ENG 102-3	English Composition I	MAT 202-3	Calculus III
MAT 131-5	Calculus I	MAT 205-3	Differential Equations
Elective-3	IAI Social Science	PHY 201-3	Statics
Elective-3	IAI Social Science	PHY 202-3	Dynamics
Elective-3	IAI Humanities/Fine Arts	PHY 205-5	University Physics I
CHM 151-5	Chemical Principles	PHY 206-5	University Physics II
Elective-3	IAI Life Science		
Southern Illinois University Carbondale Courses Capstone Option			
BS Industrial Management & Applied Engineering (IMAE) – 54 hours			
Elective-3	Fine Arts	IMAE 442-3	Fundamentals of Leadership
Elective-3	Multicultural	IMAE 445-3	Computer Integrated Manufacturing
IMAE 110-3	Geometric Dimension Tolerancing	IMAE 450-3	Project Management
IMAE 208-3	Fund of Manufacturing Processes	IMAE 465-3	Lean Manufacturing
IMAE 305-3	Industrial Safety	IMAE 470A-3	Six Sigma Green Belt I
IMAE 340-3	Intro to Supervision	IMAE 470B-3	Six Sigma Green Belt II
IMAE 375-3	Production & Inventory Mgmt	IMAE 476-3	Supply Chain Management
IMAE 390-3	Cost Estimating	IMAE Electives-6	300/400 level
IMAE 392-3	Facilities Plan & Workplace Design		
Total Hours to Bachelor Degree: 124 hours			

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

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

Questions? Contact Us!

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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.

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***		***Southern Illinois University Carbondale***		
AES Industrial Engineering - 70 hrs			BS Industrial Management & Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (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
ENG 102	English Composition II	3	ENGL 102	English Composition II	T
MAT 201	Calculus II	5	MATH 250	Calculus II	T
	IAI Social Science	3	SOCIAL SCIENCE	*See SIUC Transfer Equivalency Guide*	T
	IAI Social Science	3	SOCIAL SCIENCE	*See SIUC Transfer Equivalency Guide*	T
	IAI Humanities/Fine Arts	3	HUMANITIES	*See SIUC Transfer Equivalency Guide*	T
CHM 151	Chemical Principles	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
	IAI Life Science	3	LIFE SCIENCE	*See SIUC Transfer Equivalency Guide*	T
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		31			**6**
Program Requirements			**Program Requirements**		
ORI 100 -or- SCI 100	College 101 -or- STEM Fundamentals	1	**The AES degree in Industrial Engineering as articulated fulfills the 15 hours of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).**		
CPS 206	Computer Science I	4	CS 202 -or- ECE 222 (elective)	Intro to Computer Science -or- Intro to Digital Computation	T
EGR 101	Engineering Graphics	3	ME 102 (elective)	Computer-Aided Engineering Drawing	T
MAT 131	Calculus I	5	IMAE 307	Applied Calculus for Technology	T
MAT 202	Calculus III	3	MATH 251 (elective)	Calculus III	T
MAT 205	Differential Equations	3	MATH 305 (elective)	Intro to Differential Equations	T
PHY 201	Statics	3	ENGR 250 (elective)	Statics	T
PHY 202	Dynamics	3	ENGR 261 (elective)	Dynamics	T
PHY 203	Mechanics of Materials	4	ENGR 350A (elective)	Mechanics of Materials	T
PHY 205	University Physics I	5	PHYS 205A -and- 255A (sub for PHYS 203A -and- 253A) ?	University Physics w/Lab	T
PHY 206	University Physics II	5	PHYS 205B -and- 255B (sub for PHYS 203B -and- 253B) ?	University Physics w/Lab	T
		39			
			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
			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	300/400 level	6
					48
Total semester hrs completed w/AES degree:		**70**	**Total semester hrs completed w/BS degree:**		**54**
			Total hrs to BS Degree:		**124**
Degree Plan updated on 9/13/24 by SG					