

TRANSFER GUIDE

AES Computer Engineering transferring into BS Industrial Management and Applied Engineering

John A Logan College Courses			
AES Computer Engineering – 65 hours			
COM 115-3	Speech	Elective-3	Social Science
ENG 101-3	English Composition I	CPS 206-4	Computer Science I
ENG 102-3	English Composition II	CPS 215-4	Computer Science II
MAT 131-5	Calculus I	EGR 101-3	Engineering Graphics (or elective)
ECO 202-3	Intro to Microeconomics	MAT 201-5	Calculus II
CHM 151-5	Chemical Principles	MAT 202-3	Calculus III
PHY 205-5	University Physics I	MAT 205-3	Differential Equations
PHY 206-5	University Physics II	ORI 100-1	College 101
Elective-3	Humanities	PHY 224-4	Intro to Circuit Analysis w/Lab
Southern Illinois University Carbondale Courses			
BS Industrial Maintenance and Applied Engineering (IMAE) – CAPSTONE – 55 hours			
Elective-3	Multicultural	IMAE 442-3	Fundamentals of Leadership
IMAE 110-3	Geometric Dem & Tolerancing	IMAE 445-3	Computer-Aided Manufacturing
IMAE 208-3	Fund of Manufacturing Proc	IMAE 450-3	Project Management
IMAE 305-3	Industrial Safety	IMAE 465-3	Lean Manufacturing
IMAE 340-3 -or- PSYC 323-3	Intro to Supervision -or- Organizational Psychology	IMAE 470A-3	Six Sigma Green Belt I
		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	Electives-6	300-400-level IMAE Electives
IMAE 392-3	Facilities Plan/Workplace Design	Electives-4	General Electives
Total Hours to Bachelor Degree: 120 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.

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 2022-2023 Associate in Engineering Science - Computer Engineering - 64-66 hrs			Southern Illinois University Carbondale BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
ENG 101	English Composition I	3	ENGL 101	English Composition I	T
ENG 102	English Composition II	3	ENGL 102	English Composition II	T
COM 115	Speech	3	CMST 101	Intro:Oral Communication	T
MAT 131	Calculus I	5	MATH 150 (Satisfies BS degree requirements)	Calculus I	T
ECO 202	Intro to Microeconomics	3	ECON 240	Intro to Microeconomics	T
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE	See SIUC Equivalency Guide	T
	IAI HUMANITIES/FINE ARTS	3	HUMANITIES	See SIUC Equivalency Guide	T
			HUMANITIES		NA
PHY 205	University Physics I	5	PHYS 205A/255A (Required for BS degree)	University Physics/Lab	T
PHY 206	University Physics II	5	PHYS 205B/255B (Required for BS degree)	University Physics/Lab	T
			FINE ARTS	See SIUC Equivalency Guide	T
			HUMAN HEALTH	Human Genetics and Human Health	NA
			MULTICULTURAL		3
		33			3
Program Requirements			Program Requirements		
ORI 100	College 101	1	Any course not articulated will be used to satisfy general electives		
CHM 151	Chemical Principles	5	CHEM 200/201/202 (elective)	Intro to Chemical Principles/Lab/Workshop	T
CPS 206	Computer Science I	4	ECE 222 (elective)	Introduction to Digital Computation	T
CPS 215	Computer Science II	4	CS 220 (elective)	Programming w/Data Structures	T
EGR 101	Engineering Graphics	3	ME 102 (elective)	Computer-Aided Drawing	T
MAT 201	Calculus II	5	MATH 250 (Satisfies BS degree requirements)	Calculus II	T
MAT 202	Calculus III	3	MATH 251 (elective)	Calculus III	T
MAT 205	Differential Equations	3	MATH 305 (elective)	Introduction to Ordinary Differential Equations I	T
PHY 224	Intro to Circuit Analysis w/Lab	4	ECE 235/235L (elective)	Electric Circuits I/Lab	T
		32			
			IMAE 110	Geometric Dimensioning and Tolerancing	3
			IMAE 208	Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Organizational Psychology	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-Aided 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
			General Electives		4
					52
Total semester hrs completed w/ AES degree:		65	Total semester hrs completed w/ BS degree:		55
			Total hrs to BS Degree:		120