



John A. Logan College



TRANSFER GUIDE

AES Mechanical Engineering transferring into BS Mechanical Engineering

John A Logan College Courses			
AES Mechanical Engineering – 71 hours			
ORI/SCI 100-1	College 101/STEM Fundamentals	EGR 101-3	Engineering Graphics
ENG 101-3	English Composition I	MAT 201-5	Calculus II
ENG 102-3	English Composition II	MAT 202-3	Calculus III
MAT 131-5	Calculus I	MAT 205-3	Differential Equations
ECO 202-3	Intro to Microeconomics	PHY 201-3	Statics
Elective-3	IAI Social Science	PHY 202-3	Dynamics
CHM 151-5	Chemical Principles	PHY 203-3	Mechanics of Materials
Elective-3	IAI Humanities	PHY 205-5	University Physics I
Elective-3	IAI Life Science	PHY 206-5	University Physics II
CHM 152-5	Chemical Principles w/Qual Analysis	PHY 224-4	Intro to Circuit Analysis w/Lab
Southern Illinois University Carbondale Courses Capstone Option			
BS Mechanical Engineering (ME) – 64 hours			
CMST 101-3	Intro to Oral Communication	ME 312-3	Materials Science Fundamentals
Elective-3	Fine Arts	ME 336-3	System Dynamics & Control
BIOL 202-2	Human Genetics & Human Health	ME 401-1	Thermal Measurements Lab
Elective-3	Multicultural	ME 407-2	Measurements & Instrumentation
1 Course-2	ENGR 222 or 296 or ME 222	ME 411-3	Mfg Methods for Engineering Materials
ENGR 351-3	Numerical Methods in Engineering	ME 475-3	Machine Design I
ENGR 370A-3	Fluid Mechanics	ME 495A-3	Mechanical Engineering Design
ME 300-3	Engineering Thermodynamics I	ME 495B-3	Mechanical Engineering Design
ME 302-3	Engineering Heat Transfer	ME Elect-15	Select from list of approved courses
ME 309-3	Mechanical Analysis & Design		
Total Hours to Bachelor Degree: 135 hours			

Salary Range: \$60,000-\$150,000

Questions? Contact Us!

John A Logan College

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Southern Illinois University Carbondale

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Possible Careers: Aerospace Engineer
Biomedical Engineer
Controls Systems Engineer
Cyber/Defense Systems Engineer
Electromechanical Engineer
Electronics Engineer
Manufacturing Engineer
Mechanical Engineer
Research Development Engineer
Semiconductor Engineer
Telecommunications/Utilities Engineer

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 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. 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	
Associate in Engineering Science - Mechanical Engineering - 71 hrs		BS Mechanical Engineering (ME) - 126 hrs	
		University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs	Hrs
		UNIV 101	Saluki Success
		CMST 101	Intro to Oral Communication
ENG 101	English Composition I	3 ENGL 101	English Composition I
ENG 102	English Composition II	3 ENGL 102	English Composition II
MAT 131	Calculus I	5 MATH 150	Calculus I
ECO 202	Intro to Microeconomics	3 ECON 240	Intro to Microeconomics
	IAI Social Science	3 SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide
	IAI Humanities (IAI Elective)	3 HUMANITIES	See SIUC Transfer Equivalency Guide
		HUMANITIES	NA
CHM 151	Chemical Principles	5 CHEM 200 -and- 201	Intro to Chemical Principles w/Lab
	IAI Life Science	3 LIFE SCIENCE	See SIUC Transfer Equivalency Guide
		FINE ARTS	3
		BIOL 202	Human Genetics & Human Health
		MULTICULTURAL	3
		28	11
Program Requirements		Program Requirements	
ORI 100 -or- SCI 100	College 101 -or- STEM Fundamentals	1	Any unarticulated courses will be used to satisfy general elective credit
CHM 152	Chemical Principles w/Qualitative Analysis	5	CHEM 210 -and- 211
EGR 101	Engineering Graphics	3	ME 102
MAT 201	Calculus II	5	MATH 250
MAT 202	Calculus III	3	MATH 251
MAT 205	Differential Equations	3	MATH 305
PHY 201	Statics	3	ENGR 250
PHY 202	Dynamics	3	ENGR 261
PHY 203	Mechanics of Materials	3	ENGR 350A
PHY 205	University Physics I	5	PHYS 205A -and- 255A
PHY 206	University Physics II	5	PHYS 205B -and- 255B
PHY 224	Intro to Circuit Analysis w/Lab	4	ENGR 335
		43	
		Select 1 Course:	ENGR 222 -or- 296 -or- ME 222
		ENGR 351	Numerical Methods in Engineering
		ENGR 370A	Fluid Mechanics
		ME 300	Engineering Thermodynamics I
		ME 302	Engineering Heat Transfer
		ME 309	Mechanical Analysis & Design
		ME 312	Materials Science Fundamentals
		ME 336	System Dynamics & Control
		ME 401	Thermal Measurements Lab
		ME 407	Measurements & Instrumentation
		ME 411	Manufacturing Methods for Engineering Materials
		ME 475	Machine Design I
		ME 495A	Mechanical Engineering Design
		ME 495B	Mechanical Engineering Design
		Mechanical Engineering Electives	At least 12 credit hours must be from 400-level ME courses and 3 credit hours may be from IMAE 470A or a 400-level course used for a Math minor.
			15
			53
Total semester hrs completed w/AES degree:		71	Total semester hrs completed w/BS degree:
			64
		Total hrs to BS Degree:	135
Degree Plan updated on 7/17/24 by SG			