TRANSFER GUIDE

AES Engineering Science transferring into BS Mechanical Engineering

Kaskaskia College Courses			
AES Engineering Science – 64-71 hours			
ENGL 101-3	English Composition	ENGR 203-3	Statics
ENGL 102-3	English Composition	ENGR 204-3	Dynamics
COMM 103/204-3	Speech Comm/Interpers Comm	ENGR 205*-3	Mechanics of Materials
MATH 166-5	Calculus & Analytical Geometry I	ENGR 210*-4	Electrical Circuit Analysis
Elective-3	Social Science	MATH 267-4	Calculus & Analytical Geometry II
Elective-3	Social Science	MATH 268-4	Calculus & Analytical Geometry III
PHLE 120/201-3	Ethics/Pro Ethics for Engineers	MATH 269-3	Differential Equations
Elective-3	Humanities	PHYS 201-5	University Physics I
CHEM 111-5	Chemistry I: Inorganic Chemistry	PHYS 202-5	University Physics II
ENGR 103-3	Engineering Graphics & CAD		**Recommended Course*
ENGR 201-3	Computer Programng Engineers		***64 hours w/out recommended courses*
Southern Illinois University Carbondale Courses Capstone Option			
BS Mechanical Engineering (ME) – 74 hours			
Elective-3	Life Science	ME 302-3	Engineering Heat Transfer
BIOL 202-2	Human Genetics & Human Health	ME 309-3	Mechanical Analysis & Design
Elective-3	Fine Arts	ME 312-3	Materials Science Fundamentals
Elective-3	Multicultural	ME 336-3	System Dynamics & Control
CHEM 210,211-4	General & Inorganic Chem w/Lab	ME 401-1	Thermal Measurements Lab
ECON 240-3	Intro to Microeconomics	ME 407-2	Measurements & Instrumentation
1 Course-2	ENGR 222/296 or ME 222	ME 411-3	Manufacturing Methods Engr Materials
ENGR 350A-3	Mechanics of Materials	ME 475-3	Machine Design I
ENGR 351-3	Numerical Methods Engineering	ME 495A-3	Mechanical Engineering Design
ENGR 370A-3	Fluid Mechanics	ME 495B-3	Mechanical Engineering Design
ME 300-3	Engineering Thermodynamics I	ME Electives-15	12 ME at 400 level & 3 of IMAE 470A or 400-level course used for Math minor
Total Hours to Bachelor Degree: 138-145 Hours			

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

Possible Careers:
Aerospace Engineer
Biomedical Engineer
Controls Systems Engineer
Cyber/Defense Systems Engineer
Electronics Engineer
Research Development Engineer
Semiconductor Engineer
Telecommunications/Utilities 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 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					
Kaskaskia College	***2024-2025***		***Southern Illinois University Carbondale***		
AES Associate in Engineering Science - 64-71 Hours			BS Mechanical Engineering (ME) - 126 hrs		
			UCC Capstone - 30 hrs		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
COMM 103 -or- 204	Fundamentals of Speech Comm -or-- Interpersonal Comm	3	CMST 101 -or- 262 (101 fulfills UCC Speech Requirement)	Intro to Oral Comm -or- Interpersonal Comm	T
ENGL 101	English Composition	3	ENGL 101	English Composition I	T
ENGL 102	English Composition	3	ENGL 102	English Composition II	NA
MATH 166	Calculus & Analytical Geometry I	5	MATH 150	Calculus I	T
	Social Science	3	SOCIAL SCIENCE	*See SIUC Transfer Equivalency Guide*	T
	Social Science	3	SOCIAL SCIENCE	*See SIUC Transfer Equivalency Guide*	T
PHLE 120 -or- 201	Ethics -or- Professional Ethics for Engineers	3	PHIL 104 -or- GENL 2XX	Ethics -or- General Elective Credit	T
	Humanities	3	HUMANITIES	*See SIUC Transfer Equivalency Guide*	T
CHEM 111	Chemistry I: Inorganic Chemistry	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
			LIFE SCIENCE		3
			FINE ARTS		3
			BIOL 202	Human Genetics & Human Health	2
			MULTICULTURAL		3
		31			**11**
Program Requirements			**Program Requirements**		
ENGR 103	Engineering Graphics & CAD	3	ME 102	Computer-Aided Engineering Drawing	T
ENGR 201	Computer Programming for Engineers	3	CS 202 (elective)	Intro to Computer Science	T
ENGR 203	Statics	3	ENGR 250	Statics	T
ENGR 204	Dynamics	3	ENGR 261	Dynamics	T
MATH 267	Calculus & Analytical Geometry II	4	MATH 250	Calculus II	T
MATH 268	Calculus & Analytical Geometry III	4	MATH 251	Calculus III	T
MATH 269	Differential Equations	3	MATH 305	Intro to Differential Equations	T
PHYS 201	University Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab	T
PHYS 202	Univeristy Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab	T
		33			
***Recommended courses**					
ENGR 205*	Mechanics of Materials	3	ENGR 350C (elective)	Mechanics of Materials (Lecture Only)	T
ENGR 210*	Electrical Circuit Analysis	4	ENGR 335	Electric Circuits I	T
		40			
			CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	4
			ECON 240	Intro to Microeconomics	3
			Select 1 Course:	ENGR 222 -or- ENGR 296 -or- ME 222	2
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods in Engineering	3
			ENGR 370A	Fluid Mechanics	3
			ME 300	Engineering Thermodynamics I	3
			ME 302	Engineering Heat Transfer	3
			ME 309	Mechanical Analysis & Design	3
			ME 312	Materials Science Fundamentals	3
			ME 336	System Dynamics & Control	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Instrumentation	2
			ME 411	Manufacturing Methods for Engineering Materials	3
			ME 475	Machine Design I	3
			ME 495A	Mechanical Engineering Design	3
			ME 495B	Mechanical Engineering Design	3
			Mechanical Engineering Electives	At least 12 ME hrs at 400 level and 3 hrs from either IMAE 470A or 400-level course used for a Math minor	15
					63
Total semester hrs completed w/AES degree:		**64-71**	**Total semester hrs completed w/BS degree:**		**74**
			Total hrs to BS degree:		**138-145**
Degree Plan updated on 6/25/24 by SG					