TRANSFER GUIDE

AES Engineering Science transferring into BS Computer 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 103/104-3	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
PHLE 120/201-3	Ethics/Pro Ethics for Engineers	MATH 268-4	Calculus & Analytical Geometry III
Elective-3	Social Science	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 Computer Engineering (CEGR) – 71 hours			
Elective-3	Life Science	ECE 327,327L-4	Digital Circuit Design w/HDL w/Lab
Elective-3	Fine Arts	ECE 329,329L-4	Computer Organization & Design w/Lab
BIOL 202-2	Human Genetics & Human Hlth	ECE 345,345L-4	Electronics w/Lab
Elective-3	Multicultural	ECE 355,355L-4	Signals & Systems w/Lab
ECE 222-3	Intro to Digital Computation	ECE 495C-3	CEGR Senior Design I
ECE 296,296L-4	Intro Microcontlr & Robotics w/Lab	ECE 495D-3	ECE Senior Design II
ECE 315-4	Mathematical Methods in ECE	Tech Electives-23	Select from list of approved courses
ECE 321,321L-4	Intro Software Engineering w/Lab		
Total Hours to Bachelor Degree: 135-142 Hours			

Questions? Contact Us!

Salary Range: $60,000-$180,000

Possible Careers:
Aerospace Engineer
Biomedical Engineer
Cyber/Defense Systems Engineer
Cybersecurity Consultant
Flight Systems Engineer
Satellite Systems Engineer
Semiconductor Engineer
Software Systems Developer
Power Distribution Engineer

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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. 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 Computer Engineering (CEGR) - 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 (elective)	Computer-Aided Engineering Drawing	T
ENGR 201	Computer Programming for Engineers	3		CS 202 (technical elective)	Intro to Computer Science	T
ENGR 203	Statics	3		ENGR 250 (technical elective)	Statics	T
ENGR 204	Dynamics	3		ENGR 261 (technical elective)	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	University 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	T
ENGR 210*	Electrical Circuit Analysis	4		ECE 235 -and- 235L	Electric Circuits I w/Lab	T
		40				
				ECE 222	Intro to Digital Computation	3
				ECE 296 -and- 296L	Intro to Microcontrollers & Robotics w/Lab	4
				ECE 315	Mathematical Methods in ECE	4
				ECE 321 -and- 321L	Intro to Software Engineering w/Lab	4
				ECE 327 -and- 327L	Digital Circuit Design with HDL w/Lab	4
				ECE 329 -and- 329L	Computer Organization & Design w/Lab	4
				ECE 345 -and- 345L	Electronics w/Lab	4
				ECE 355 -and- 355L	Signals & Systems w/Lab	4
				ECE 495C	CEGR Senior Design I	3
				ECE 495D	ECE Senior Design II	3
				Technical Electives	23 hours of ECE electives. At least 20 hours from: ECE 412-435. 3 hours can be approved CS courses.	23
						60
Total semester hrs completed w/AES degree:		**64-71**		**Total semester hrs completed w/BS degree:**		**71**
				Total hrs to BS degree:		**135-142**
Degree Plan updated on 6/25/24 by SG						