



TRANSFER GUIDE

AES Engineering Science transferring into BS Biomedical 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					
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 Biomedical Eng	ineering (BME) – 7	3 hours					
BIOL 211-4	Intro Cell Biology & Genetics	BME 338,338L-4	Biomedical Instruments w/Lab					
Elective-3	Fine Arts	BME 351-3	Probability & Statistics					
PHSL 201-3	Human Physiology	BME 355L-1	BME Signals & Systems Lab					
Elective-3	Multicultural	BME 438-3	Medical Instrumentation: App & Design					
BME 101-3	Intro to Biomedical Engineering	BME 495A-3	BME Senior Design I					
BME 296,296L-4	Intro Microcontr Robotics w/Lab	BME 495B-3	BME Senior Design II					
BME 336-3	Biomechanics	ECE 355-3	Signals & Systems					
BME 337-3	Bioelectricity	Tech Electives-27	Select from list of approved courses					
Total Hours to Bachelor Degree: 137-144 Hours								

Questions? Contact Us!

Kaskaskia College

Staci Palm, Dean of Enrollment Services

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E: spalm@kaskaskia.edu

Salary Range: \$41,950-\$91,410

Possible Careers: Bioinstrumentation Engineer

Rehabilitation Engineer Biomedical Researcher Clinical Patient Evaluator

Southern Illinois University Carbondale

Dr. Spyros Tragoudas, Director

School of Electrical, Computer, & Biomedical Engineering

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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 <u>all work</u> 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 <u>Salukinet</u>.

Saluki Transfer Estimator Portal (STEP)

The <u>Saluki Transfer Estimator Portal</u> (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	I DEGREE PLAN					Т
Kaskaskia College 2024-2025			Southern Illinois University Carbondale			
AES Associate in Engineerin	ng Science - 64-71 Hours		BS Biomedical Engineering (BME) - 126 hrs	The state of the s		
•			UCC Capstone - 30 hrs			1
		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	Т	
ENGL 101	English Composition	3	ENGL 101	English Composition I	Т	
ENGL 102	English Composition	3	ENGL 102	English Composition II	NA	
MATH 166	Calculus & Analytical Geometry I	5	MATH 150	Calculus I	Т	
	Social Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	Т	T
	Social Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	Т	\top
PHLE 120 -or- 201	Ethics -or- Professional Ethics for Engineers	3	PHIL 104 -or- GENL 2XX	Ethics -or- General Elective Credit	Т	
	Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide	Т	
CHEM 111	Chemistry I: Inorganic Chemistry	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	Т	
	, and the second		BIOL 211	Intro to Cell Biology & Genetics	4	
			FINE ARTS	<u> </u>	3	
			PHSL 201	Human Physiology	3	
			MULTICULTURAL	, ,,	3	
		31			13	1
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Program Requirements			Program Requirements			+
ENGR 103	Engineering Graphics & CAD	3	ME 102 (elective)	Computer-Aided Engineering Drawing	Т	+
ENGR 201	Computer Programming for Engineers	3	CS 202 (technical elective)	Intro to Computer Science	Ť	-
ENGR 203	Statics	3	ENGR 250 (technical elective)	Statics	Ť	+
ENGR 204	Dynamics	3	ENGR 261 (technical elective)	Dynamics	÷	+
MATH 267	Calculus & Analytical Geometry II	4	MATH 250	Calculus II	Ť	_
MATH 268	Calculus & Analytical Geometry III	4	MATH 250	Calculus III	i i	-
MATH 269	Differential Equations	3	MATH 305	Intro to Differential Equations	+	+
PHYS 201	University Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab	+	+
PHYS 202	University Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab	†	+
FH13 202	Oniversity i hysics ii	33	11110 2000 -and-2000	Offiversity Friysics W/Lab		+
*Recommended Courses		- 33				+
ENGR 205*	Mechanics of Materials	3	ENGR 350C (elective)	Mechanics of Materials	Т	+
ENGR 205 ENGR 210*	Electrical Circuit Analysis	4	ECE 235 -and- 235L	Electric Circuits I w/Lab	T	╄
ENGK 210"	Electrical Circuit Analysis	40	ECE 233 -and- 235L	Electric Circuits I W/Lab	I I	+
		40	DME 404	Later to Bis and Fred Fred and		\vdash
			BME 101	Intro to Biomedical Engineering	3	-
			BME 296 -and- 296L	Intro to Microcontrollers & Robotics w/Lab	4	-
			BME 336	Biomechanics	3	_
			BME 337	Bioelectricity	3	Н
			BME 338 -and- 338L	Biomedical Instruments w/Lab	4	1
			BME 351	Probability & Statistics	3	1
			BME 355L	BME Signals & Systems Lab	1	1
			BME 438	Medical Instrumentation: Application & Design	3	1
			BME 495A	BME Senior Design I	3	H
			BME 495B	BME Senior Design II	3	ı
			_ECE 355	Signals & Systems	3	1
			Technical Electives	At least 9 hours from: BME 341-485. Remaining credit	27	
				hours can be from 300/400-level courses offered by		4
	1			1	60	+
	1 1 10 10 10 10 10 10 10 10 10 10 10 10	21-1				+
Total semester hrs comple	ted w/AES degree:	64-71	Total semester hrs completed w/BS degree:		73	4
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			Total hrs to BS degree:		137-144	,
						1
Degree Plan updated on 6/2	5/24 by SG					\perp
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