



TRANSFER GUIDE

AES Engineering Science transferring into BS Electrical 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 Electrical Engineering (EE) – 67 hours								
Elective-3	Life Science	ECE 336-3	Electric Circuits II					
Elective-3	Fine Arts	ECE 345,345L-4	Electronics w/Lab					
BIOL 202-2	Human Genetics & Human Health	ECE 355,355L-4	Signals & Systems w/Lab					
Elective-3	Multicultural	ECE 375-3	Intro to Electromagnetic Fields					
ECE 222-3	Intro to Digital Computation	ECE 495E-3	EE Senior Design I					
ECE 296,296L-4	Intro Microctrlrs Robotics w/Lab	ECE 495D-3	ECE Senior Design II					
ECE 327,327L-4	Digital Circuit Des w/HDL w/Lab	ECE Tech Elec-25	Select from list of approved courses					
Total Hours to Bachelor Degree: 131-138 Hours								

Questions? Contact Us!

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

Kaskaskia College

Possible Careers: Aerospace Engineer

Staci Palm, Dean of Enrollment Services

Automotive Engineer Biomedical Engineer P: 618-545-3048 E: spalm@kaskaskia.edu

Controls Systems Engineer
Cyber Systems Engineer
Defense Systems Engineer
Electronics Engineer
Electromagnetics Engineer

Southern Illinois University Carbondale

Power Systems Engineer Research & Development Engineer

Dr. Spyros Tragoudas, Director School of Electrical, Computer, & Biomedical Engineering

Robotics Engineer Semiconductor/VLSI Engineer Signal Processing Engineer

P: 618-453-7027

Telecommunications Engineer

E: spyros@engr.siu.edu

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					
Kaskaskia College	2024-2025		Southern Illinois University Carbondale		
AES Associate in Engineering	Science - 64-71 Hours		BS Electrical Engineering (EE) - 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	Т
ENGL 102	English Composition	3	ENGL 102	English Composition II	Т
MATH 166	Calculus & Analytical Geometry I	5	MATH 150	Calculus I	T
	Social Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T 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	Ť
	Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide	Ť
	Chemistry I: Inorganic Chemistry	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	† †
	Onemistry I. morganic Onemistry	3	LIFE SCIENCE	Intito to Orientical Finicipies W/Lab	3
			FINE ARTS		3
			BIOL 202	Human Genetics & Human Health	2
		+	MULTICULTURAL	Truman Genetics & Human Realth	3
		31	WIDLITCOLTOKAL		11
		31			11
Program Requirements		1	Program Requirements		1
ENGR 103	Engineering Graphics & CAD	3	ME 102 (elective)	Computer-Aided Engineering Drawing	T
ENGR 103 ENGR 201	Computer Programming for Engineers	3	CS 202 (elective)	Intro to Computer Science	+ <u>+</u>
ENGR 201 ENGR 203					
	Statics	3	ENGR 250 (elective)	Statics	T
ENGR 204	Dynamics	3	ENGR 261 (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	Т
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	Т
		40			
			ECE 222	Intro to Digital Computation	3
			ECE 296 -and- 296L	Intro to Microcontrollers & Robotics w/Lab	4
			ECE 327 -and- 327L	Digital Circuit Design with HDL w/Lab	4
			ECE 336	Electric Circuits II	3
			ECE 345 -and- 345L	Electronics w/Lab	4
			ECE 355 -and- 355L	Signals & Systems w/Lab	4
			ECE 375	Intro to Electromagnetic Fields	3
		1	ECE 495E	EE Senior Design I	3
		1	ECE 495D	ECE Senior Design II	3
		1		Two out of the following: ECE 356 & ECE 356L, ECE 385	
				& ECE 385L, ECE 478. Other approved ECE technical	
			ECE Technical Electives	electives by the School: ECE 3XX or 4XX level (except	25
				ECE 392, ECE 492 & ECE 493). At least 10 ECE hours	
				not from ECE 412-435.	
				100 110111 EGE 412-400.	56
					1
Total semester hrs completed w/AES degree:		64-71	Total semester hrs completed w/BS degree:		67
			Total hrs to BS degree:		131-138
Degree Plan updated on 7/5/2	24 by SG				