



TRANSFER GUIDE

AS Mathematics Suggested Curriculum transferring into BS Physics Biomedical

Kaskaskia College Courses								
AS Mathematics Suggested Curriculum – 66 hours								
GUID 109-1	First Year College Experience	Elective-3	Fine Arts					
ENGL 101-3	English Composition	HLTH 102-3	Human Health & Wellness					
ENGL 102-3	English Composition	CITA 110-1	Intro to Word Processing					
COMM 103-3	Fundamentals of Speech Comm	MATH 166-5	Calculus & Analytical Geometry I					
MATH 136-4	General Statistics	ENGR 201-3	Computer Programming for Engr					
PSYH 101-3	Psychology	MATH 236-3	Linear Algebra					
Elective-3	Social/Behavioral Science	MATH 267-4	Calculus & Analytical Geometry II					
PHLE 120-3	Ethics	MATH 268-4	Calculus & Analytical Geometry III					
PHYS 201-5	University Physics I	MATH 269-3	Differential Equations					
BIOL 101-4	Biology	PHYS 202-5	University Physics II					
Southern Illinois University Carbondale Courses								
BS Physics (PHYS) Biomedical Specialization – 57 hours								
BIOL 213-4	Intro Organism Form Function	PHYS 310-3	Classical Mechanics					
CHEM 200,201,202-5	Intro Chem Prin w/Lab, Wkshp	PHYS 320-3	Electricity & Magnetism I					
1 Course-3	MATH 405, 407, 450, 455 or	PHYS 420-3	Electricity & Magnetism II					
	475							
PHYS 100-1	Undergraduate Seminar	PHYS 430-3	Quantum Mechanics I					
PHYS 206A,206B-2	Problem Solving	PHYS 445-3	Thermodynamics & Statistical Mechanics					
PHYS 301-3	Theoretical Methods in Physics	PHYS 476B-3	Intro to Biological Physics					
PHYS 305,355-4	Modern Physics w/Lab	Biomed Phys Elec-17	Select from list of approved courses					
Total Hours to Bachelor Degree: 123 Hours								

Salary Range: \$30,000-\$75,000

Possible Careers: Materials Processing Engineer

Optical Physicist/Engineer Laser Physicist/Engineer

Imaging Scientist

Possible

Graduate Studies: Astronomy

Physics/Applied Physics Biomedical Engineering

Electrical/Computer Engineering

Questions? Contact Us!

Kaskaskia College

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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 assumed 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 Salukinet.

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	N DEGREE PLAN				
Kaskaskia College 2024-2025		Southern Illinois University Carbondale			
AS Mathematics Suggested Curriculum - 65 hours			BS Physics (PHYS) Biomedical Physics Spec	cialization - 120 hours	,
			University Core Curriculum (UCC) - 39 hrs	*	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
COMM 103	Fundamentals of Speech Comm	3	CMST 101	Intro to Oral Communication	Т
ENGL 101	English Composition	3	ENGL 101	English Composition I	Т
ENGL 102	English Composition	3	ENGL 102	English Composition II	Т
MATH 136	General Statistics	4	MATH 282	Intro to Statistics	Т
PSYH 101	Psychology	3	PSYC 102	Intro to Psychology	Т
	Social/Behavioral Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	Т
PHLE 120	Ethics	3	PHIL 104	Ethics	Т
			HUMANITIES		NA
PHYS 201	University Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab	Т
BIOL 101	Biology	4	BIOL 211	Intro Cell Biology & Genetics	T
	Fine Arts	3	FINE ARTS	See SIUC Transfer Equivalency Guide	Т
HLTH 102	Human Health & Wellness	3	PH 101	Foundations of Human Health	Т
111111111111111111111111111111111111111			MULTICULTURAL		NA
		37			0
			*An AS from a regionally accredited Illinois community college satisfies UCC requirements		
			i i		
Program Requirements			Program Requirements		
GUID 109	First Year College Experience	1	A		
CITA 110	Intro to Word Processing	1	Any unarticulated coul	rses will be used to satisy general elective credit	
ENGR 201	Computer Programming for Engineers	3	CS 202	Intro to Computer Science	Т
MATH 166	Calculus & Analytical Geometry I	5	MATH 150	Calculus I	Т
MATH 236	Linear Algebra	3	MATH 221	Intro to Linear Algebra	Т
MATH 267	Calculus & Analytical Geometry II	4	MATH 250	Calculus II	Ť
MATH 268	Calculus & Analytical Geometry III	4	MATH 251	Calculus III	Т
MATH 269	Differential Equations	3	MATH 305	Intro to Differential Equations	T
PHYS 202	University Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab	T
		29			
			BIOL 213	Intro Organismal Form & Function	4
			CHEM 200, 201 -and- 202	Intro to Chemical Principles w/Lab & Workshop	5
			Select 1 Course:	MATH 405, 407, 450, 455 -or- 475	3
			PHYS 100	Undergraduate Seminar	1
			PHYS 206A -and- 206B	Problem Solving	2
			PHYS 301	Theoretical Methods in Physics	3
			PHYS 305 -and- 355	Modern Physics w/Lab	4
			PHYS 310	Classical Mechanics	3
		_	PHYS 320	Electricity & Magnetism I	3
			PHYS 420	Electricity & Magnetism II	3
		+	PHYS 430	Quantum Mechanics I	3
		-	PHYS 445	Thermodynamics & Statistical Mechanics	3
		-		Intro to Biological Physics	3
		+	_PHYS 476B	Choose a minimum of 17 hrs from: CHEM 210, 211, 212, 340,	3
		+	Piomodical Physics Electives		47
		+	Biomedical Physics Electives	341, 350, 351; MICR 301, 302; PHYS 390, 424, 425, 428, 431,	17
		-	*Ctudente muet complete 49 are dit bef	432, 440, 458, 470, 476C, 476M, 476Q, 490	E7
		+	*Students must complete 42 credit hours of 300/400 level courses		57
Total semester hrs completed with AS degree: 66		66	Total semester hrs completed with BS degree:		57
			Total semester hrs to BS degree:		123
			To be degree.		.20
Degree Plan updated on 7/3	31/24 by SG				1