



TRANSFER GUIDE

AES Computer Engineering Specialty transferring into BS Computer Engineering

Southwestern Illinois College Courses			
AES Computer Engineering Specialty – 61 hours			
COMM 151-3	Fundamentals of Public Speaking	MATH 204-5	Calculus II
ENG 101-3	Rhetoric & Composition I	MATH 205-4	Calculus III
ENG 102-3	Rhetoric & Composition II	MATH 290-3	Differential Equations
MATH 203-5	Calculus I	ENGR 271-3	Electrical Circuits
Elective-3	Social & Behavioral Sciences	MATH 171-4	Computer Science I – Java
Elective-3	Social & Behavioral Sciences	MATH 271-4	Computer Science II – Java
Elective-3	Humanities	PHYS 204-4	Physics Mechanics
CHEM 105-5	General Chemistry I	PHYS 205-4	Physics Heat Electricity Magnetism
HES 151-2	Personal Health & Wellness		
Southern Illinois University Carbondale Courses Capstone Option			
BS Computer Engineering (CEGR) – 72 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 Orgaztn & Design w/Lab
Elective-3	Multicultural	ECE 345,345L-4	Electronics w/Lab
BIOL 202-2	Human Genetics & Human Health	ECE 355,355L-4	Signals & Systems w/Lab
ECE 235,235L-4	Electric Circuits I w/Lab	ECE 495C-3	CEGR Senior Design I
ECE 296,296L-4	Intro Microcntrlrs & Robotics w/Lab	ECE 495D-3	ECE Senior Design II
ECE 315-4	MathematicsI 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: 133 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.