



## TRANSFER GUIDE

### Associate of Science transferring into BS Computer Engineering

Shawnee Community College Courses			
Associate of Science – 64 hours			
ENG 111-3	English Composition I	Elective-3	Humanities
ENG 112-3	English Composition II	Elective-3	Fine Arts
SPC 111-3	Speech	MAT 211-5	Calculus II
MAT 209-5	Calculus I	MAT 212-5	Calculus III
BIO 115-4	Human Biology	MAT 213-3	Ordinary Differential Equations I
CHE 114-5	Inorganic Chemistry I	PHY 216-4	University Physics I
CHE 115-5	Inorganic, Organic & Biochemistry	PHY 217-4	University Physics II
Elective-3	Social Science	Electives-3	Choose from transfer courses
Elective-3	Social Science		
Southern Illinois University Carbondale Courses			
BS Computer Engineering (CEGR) 67 hours			
ECE 222-3	Intro to Digital Computation	ECE 355/355L-4	Signals & Systems/Lab
ECE 235/235L-4	Electric Circuits/Lab	ECE 495C-3	ECE Senior Design I
ECE 296/296L-4	Software Tools for Robotics/Lab	ECE 495D-3	ECE Senior Design II
ECE 315-4	Math Methods in ECE	ECE Electives-23	20 hours from: ECE 412-432, 2 approved CS courses from CS 3XX or 4XX level (except CS 300, 393, or 439)
ECE 321/321L-4	Intro Software Engineering/Lab		
ECE 327/327L-4	Digital Circuit Design with HDL/Lab		
ECE 329/329L-4	Computer Org & Design/Lab	CEGR Electives-6	Choose from approved courses
ECE 345/345L-4	Electronics/Lab		
Total Hours to Bachelor Degree: 131 Hours			

**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

### Questions? Contact Us!

**Shawnee Community College**

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## **Baccalaureate Degree Requirements**

Each candidate for a bachelor's degree must complete the requirements listed:

**Hour Requirements.** Each student must complete at least 120 semester hours of credit. Each student must have at least 42 hours in courses that number 300 or above from a four-year institution.

**Residence Requirements.** Each student must complete the residence requirement by taking the last year, which is defined as 30 uninterrupted semester hours, or a total of 90 semester hours at SIU Carbondale.

**Grade Point Average Requirements.** Each student must have a C average for all work taken at SIU Carbondale. Some academic programs may require a higher graduating major GPA.

## **Dual Admission Program**

The Dual Admission Program (DAP) allows baccalaureate-oriented students at eligible community colleges to benefit from pre-advisement for a chosen major at SIU Carbondale. The DAP addresses specific departmental requirements that a student may not automatically fulfill by completing their associate degree at their community college. Students apply to the DAP by completing the Application for Undergraduate Admission and indicating interest in the DAP. Students must have at least two semesters remaining at their community college to participate, [must select a participating SIU major](#), and [must attend an eligible community college](#). Students who apply for the DAP are provided a transfer plan that will guide them to the most direct route to their bachelor's degree, along with personalized contact with an SIU representative. Dual Admission Program students receive access to enroll in an online Dual Admission Program course, which connects students early to the University, its resources, and other transfer students.

## **Compact Agreement**

SIU has recognized the Illinois regionally accredited community college transferable baccalaureate oriented Associate of Arts or Associate of Science degrees under the Compact Agreement since 1970. SIU 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). 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.

## **Degree Works**

*Degree Works* is an easy-to-use, comprehensive, online degree audit tool specifically designed for students. The audit reflects program requirements from the Undergraduate Catalog measured against registration and transfer work to guide the degree audit function as it applies to the individual student. Once admitted to SIU Carbondale, you can run a Degree Works degree audit against your academic record by searching "Degree Works" in [SalukiNet](#).