



## TRANSFER GUIDE

### Associate of Science transferring into BS Electrical 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
Elective-3	Social Science	PHY 217-4	University Physics II
Elective-3	Social Science	Electives-8	Choose from transfer courses
Southern Illinois University Carbondale Courses			
BS Electrical Engineering (EE) – 70 hours			
ECE 222-3	Introduction to Digital Computation	ECE 345/345L-4	Electronics/Lab
ECE 235/235L-4	Electric Circuits/Lab	ECE 355/355L-4	Signals & Systems/Lab
ECE 296/296L-4	Software Tools for Engineers/Lab	ECE 375/375L-4	Intro to Electromagnetic Fields/Lab
ECE 315-4	Math Methods in ECE	ECE 495E-3	EE Senior Design I
ECE 327/427L-4	Digital Circuit Design with HDL/Lab	ECE 495D-3	ECE Senior Design II
ECE 336-3	Electric Circuits II	ECE Tech Elect-24	See SIUC catalog for approved courses
Total Hours to Bachelor Degree: 134 Hours			

### Questions? Contact Us!

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

**Possible Careers:** Aerospace Engineer  
Automotive Engineer  
Biomedical Engineer  
Controls Systems Engineer  
Cyber Systems Engineer  
Defense Systems Engineer  
Electronics Engineer  
Electromagnetics Engineer  
Power Systems Engineer  
Research & Development Engineer  
Robotics Engineer Semiconductor/VLSI  
Engineer Signal Processing Engineer  
Telecommunications Engineer

**Shawnee Community College**  
Kristin Shelby  
Dean for Academic Affairs & Student Learning  
P: 618-634-3200, ext. 3240 s  
E: [kristins@shawneecc.edu](mailto:kristins@shawneecc.edu)

**Southern Illinois University Carbondale**  
Dr. Spyros Tragoudas, Director  
School of Electrical, Computer, & Biomedical  
Engineering  
P: 618-453-7027  
E: [spyros@enr.siu.edu](mailto:spyros@enr.siu.edu)

## 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](mailto: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.