

## TRANSFER GUIDE

### Associate in Engineering Science transferring into BS Electrical Engineering

City Colleges of Chicago Courses			
Associate in Engineering Science – 67 hours			
ENGLISH 101-3	Composition I	ENGR 190-3	Computer Apps in Engineering
ENGLISH 102-3	Composition II	ENGR 215-5	Electrical Circuit Analysis
ECON 201-3 or ECON 202-3	Principles of Economics I or Principles of Economics II	CHEM 201-5	General Chemistry I
Elective-3	Fine Arts/Humanities	PHYSICS 215-3	Statics
MATH 207-5	Calculus & Analytical Geometry I	PHYSICS 216-3	Dynamics
MATH 208-5	Calculus & Analytical Geometry II	PHYSICS 217-3	Mechanics of Materials
MATH 209-5	Calculus & Analytical Geometry III	PHYSICS 235-5	Engineering Physics I
MATH 210-3	Differential Equations	PHYSICS 236-5	Engineering Physics II
		PHYSICS 237-5	Engineering Physics III
Southern Illinois University Carbondale Courses			
BS Electrical Engineering – 79 hours			
CMST 101-3	Intro to Oral Communication	ECE 345/345L-4	Electronics/Lab
BIOL 202-2	Human Genetics & Human Health	ECE 355/355L-4	Signals & Systems/Lab
PHIL 104-3	Ethics	ECE 356/356L-4	Systems & Control/Lab
PHIL 105-3	Elementary Logic	ECE 375/375L-4	Intro to Electromagnetic Fields/Lab
ENGR 304I-3	Social History American Technology	ECE 385/385L-4	Electromechanical Energy Conv/Lab
Elective-3	Social Science	ECE 495E-3	EE Senior Design I
ECE 296/296L-4	Software Tools for Engineers/Lab	ECE 495D-3	ECE Senior Design II
ECE 315-4	Mathematical Methods in ECE	ECE Electives-21	Must include 9 hrs of Engr Design
ECE 327/327L-4	Digital Circuit Design with HDL/Lab	Science Elective	Satisfied by CHEM 200/201/202
ECE 336-3	Electric Circuits II		
<b>Total Hours to Bachelor Degree: 146 Hours</b>			

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

**Possible Careers:** Aerospace Engineer  
Biomedical Engineer  
Controls Systems Engineer  
Cyber/Defense Systems Engineer  
Electronics Engineer  
Research & Development Engineer  
Semiconductor Engineer  
Telecommunications/Utilities Engineer

### Questions? Contact Us!

#### City Colleges of Chicago

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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](#).