

TRANSFER GUIDE

Associate of Engineering Science to BS Electrical Engineering

Waubonsee Community College Courses			
Associate of Engineering Science (AES) – 61 hours			
ENG 101-3	First-Year Composition I	EGR 101-4	Engineering Graphics
ENG 102-3	First-Year Composition II	CHEM 122-4	Chemistry & Qualitative Analysis
COM 100-3	Fund of Speech Communication	CIS 130/230-6	C++ Programming & Adv C++
MTH 131-4	Calculus & Analytical Geom I	MTH 132-4	Calculus & Analytical Geometry II
ECN 201-3	Principles of Microeconomics	MTH 233-4	Calculus & Analytical Geometry III
CHEM 121-4	General Chemistry	MTH 240-3	Differential Equations
PHY 221-5	General Physics I	PHY 222-5	General Physics II
Elective-3	*Social Science	<i>*One course satisfying degree requirements must have a non-Western (N) or diversity (D) emphasis.</i>	
Elective-3	*Humanities		
CIS 115-3	Introduction to Programming		
Southern Illinois University Carbondale Courses			
BS Electrical Engineering (EE) – 66 hours			
BIOL 202-2	Human Genetics & Human Health	ECE 336-3	Electric Circuits II
Elective-3	Fine Arts	ECE 345/345L-4	Electronics/Lab
Elective-3	Multicultural	ECE 355/355L-4	Signals & Systems/Lab
ECE 235/235L-4	Electric Circuits/Lab	ECE 375/375L-4	Intro Electromagnetic Fields/Lab
ECE 296/296L-4	Software Tools for Robotics/Lab	ECE 495D-3	ECE Senior Design II
ECE 315-4	Math Methods in ECE	ECE 495E-3	EE Senior Design I
ECE 327/327L-4	Digital Circuit Design with HDL/Lab	ECE Tech Elect-24	See SIUC catalog for approved courses
Total Hours to Bachelor Degree: 130 Hours			

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

Questions? Contact Us!

Waubonsee Community College

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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.