

TRANSFER GUIDE

Associate in Engineering Science transferring into BS Electrical Engineering

McHenry County College Courses			
Associate in Engineering Science – 60 hours			
ENG 151-3	Composition I	CSC 121-4	Computer Science I
ENG 152-3	Composition II	MAT 245-5	Calculus & Analytical Geometry II
MAT 175-5	Calculus & Analytical Geometry I	MAT 255-4	Calculus & Analytical Geometry III
CHEM 165-5	General Chemistry I	MAT 260-3	Differential Equations
Gen Ed-3	IAI Social/Behavioral Science	PHY 291-4	Principles of Physics I
Gen Ed-3	IAI Humanities	PHY 292-4	Principles of Physics II
Gen Ed-3	IAI Fine Arts	PHY 293-4	Principle of Physics III
Gen Ed-3	Non-Western Cultures w/in the U.S.	EGR 260-4	Electrical Circuit Analysis
Southern Illinois University Carbondale Courses			
BS Electrical Engineering – 74 hours			
Elective-3	*Social Science	ECE 355/355L-4	Signals & Systems/Lab
CMST 101-3	*Intro to Oral Communication	ECE 356/356L-4	Linear Control Systems/Lab
BIOL 202-2	Human Genetics and Human Health	ECE 375/375L-4	Intro to Electromagnetic Fields/Lab
ECE 222-3	Introduction to Digital Computation	ECE 385/385L-4	Electromechanical Energy Conv/Lab
ECE 296/296L-4	Software Tools for Engineers/Lab	ECE 495E-3	EE Senior Design I
ECE 315-4	Mathematical Methods in ECE	ECE 495D-3	ECE Senior Design II
ECE 327/327L-4	Digital Circuit Design with HDL/Lab	ECE Electives-16	300/400 level ECE courses
ECE 336-3	Electric Circuits II	Tech Electives-6	300/400 level CS or 400 level MATH
ECE 345/345L-4	Electronics/Lab	Sci/Lab Elective	CHEM 200/201 or PHYS 305/355
Total Hours to Bachelor Degree: 134 Hours			

*Courses may be taken at MCC. Consult your academic advisor.

Questions? Contact Us!

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

McHenry County College

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Southern Illinois University Carbondale

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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](#).