

## TRANSFER GUIDE

### AES Associate in Engineering Science transferring into BS Mechanical Engineering

<b>Elgin Community College Courses</b>			
<b>Associate in Engineering Science (AES) – 71 hours</b>			
ENG 101-3	English Composition I	EGR 101-4	Engineering Design Graphics/CAAD
ENG 102-3	English Composition II	EGR 152-3	Statics
MTH 190-5	Calculus w/Analytic Geometry I	EGR 252-3	Dynamics
ECN 201-3	Principles of Microeconomics	MTH 123-4	Computer Science for Engineers
Elective-3	IAI Behavioral Science	MTH 210-5	Calculus with Analytic Geometry II
Elective-3	IAI Humanities	MTH 230-5	Calculus with Analytic Geometry III
Elective-3	IAI Fine Arts	MTH 250-4	Differential Equations
CHM 142-5	General Chemistry I	PHY 211-5	Engineering Physics I
CHM 143-5	General Chemistry II	PHY 212-5	Engineering Physics II
<b>Southern Illinois University Carbondale Courses Capstone Option</b>			
<b>BS Mechanical Engineering (EE) - 70 hours</b>			
CMST 101-3	Intro to Oral Communication	ME 309-3	Mechanical Analysis & Design
Elective-3	Life Science	ME 312-3	Materials Science Fundamentals
BIOL 202-2	Human Genetics & Human Health	ME 336-3	System Dynamics & Control
Elective-3	Multicultural	ME 401-1	Thermal Measurements Lab
1 Course-2	ENGR 222 or 296 or ME 222	ME 407-2	Measurements & Instrumentation
ENGR 335-3	Electric Circuits I	ME 411-3	Manuf Methods for Engr Materials
ENGR 350A-3	Mechanics of Materials	ME 475-3	Machine Design I
ENGR 351-3	Numerical Methods in Engineering	ME 495A-3	Mechanical Engineering Design
ENGR 370A-3	Fluid Mechanics	ME 495B-3	Mechanical Engineering Design
ME 300-3	Engineering Thermodynamics I	ME Electives-15	Select from list of approved courses
ME 302-3	Engineering Heat Transfer		
<b>Total Hours to Bachelor Degree: 141 Hours</b>			

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

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

### Questions? Contact Us!

**Elgin Community College**

Tracy Vittone  
Director of Transfer Services  
P: 847-214-7548  
E: [tvittone@elgin.edu](mailto:tvittone@elgin.edu)

**Southern Illinois University Carbondale**

Dr. Rasit Koc, Interim Director  
School of Mechanical, Aerospace, & Materials Engineering  
P: 618-453-7002  
E: [kocr@siu.edu](mailto:kocr@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.