



## TRANSFER GUIDE

### Associate of Engineering Science transferring into BS Mechanical Engineering

Harper College Courses			
Associate of Engineering Science – 63 hours			
ENG 101-3	Composition	CSC 121-4	Computer Science I
ENG 102-3	Composition	EGR 120-4	Engineering Graphics I (CAD)
MTH 200-5	Calculus I	EGR 210-3	Analytical Mechanics: Statics
ECO 211-3	Microeconomics	EGR 211-3	Engineering Dynamics
HUM 107-3	The Cultures of Africa	MAT 201-5	Calculus II
CHM 121-5	General Chemistry I	MAT 202-5	Calculus III
PHY 201-5	General Physics I: Mechanics	MAT 212-3	Differential Equations
CHM 122-5	General Chemistry II	PHY 202-5	General Physics II
Southern Illinois University Carbondale Courses			
BS Mechanical Engineering (ME) – 71 hours			
CMST 101-3	Intro to Oral Communication	ME 309-3	Mechanical Analysis & Design
Elective-3	Social Science	ME 312-3	Materials Sci Fundamentals
Elective-3	Fine Arts	ME 336-3	System Dynamics and Control
Elective-3	Multicultural	ME 400-3	Engineering Thermodynamics II
ENGR 296-2 -or- ME 222-2	Software Tools for Engineers or MAT LAB for ME	ME 401-1	Thermal Measurements Lab
		ME 407-2	Measurements & Instrumentation
ENGR 335-3	Electric Circuits	ME 411-3	Mfg Methods: Engr Materials
ENGR 350A-3	Mechanics of Materials	ME 472-3	Materials Selection for Design
ENGR 351-3	Numerical Methods	ME 475-3	Machine Design I
ENGR 370A-3	Fluid Mechanics	ME 495A-3	Mechanical Engr Design
ME 300-3	Engineering Thermodynamics I	ME 495B-3	Mechanical Engr Design
ME 302-3	Engineering Heat Transfer	ME Electives-9	300/400 level ME courses
Total Hours to Bachelor Degree: 134 Hours			

**Salary Range:** \$50,000-\$130,000  
(\$90,160 – Median Pay)

**Possible Careers:** Mechanical Design Engineer  
Robotics Engineer  
Process Engineer  
Power Systems Engineer  
Aerospace Engineer  
Engine Design  
Automation Engineer  
Materials Research Engineer  
Energy Engineer

### Questions? Contact Us!

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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](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.