



TRANSFER GUIDE

AES Engineering Science transferring into BS Mechanical Engineering

Harper College Courses			
AES Engineering Science – 64 hours			
ENG 101-3	Composition	MTH 212-3	Differential Equations
ENG 102-3	Composition	PHY 201-5	General Physics I: Mechanics
ECO 211-3	Microeconomics	PHY 202-5	General Physics II
Elective-3	IAI Humanities*	CHM 122-5	General Chemistry II
CHM 121-5	General Chemistry I	CSC 121-4	Computer Science I
MTH 200-5	Calculus & Analytic Geometry I	EGR 120-4	Engineering Graphics I (CAD)
MTH 201-5	Calculus & Analytic Geometry II	EGR 210-3	Analytical Mechanics: Statics
MTH 202-5	Calculus & Analytic Geometry III	EGR 211-3	Analytical Mechanics: Dynamics
Southern Illinois University Carbondale Courses Capstone Option			
BS Mechanical Engineering (ME) – 76 hours			
CMST 101-3	Intro to Oral Communication	ME 302-3	Engineering Heat Transfer
BIOL 202-2	Human Genetics & Human Health	ME 309-3	Mechanical Analysis & Design
Elective-3	Social Science	ME 312-3	Materials Science Fundamentals
Elective-3	Fine Arts	ME 336-3	System Dynamics & Control
Elective-3	Life Science	ME 401-1	Thermal Measurements Lab
Elective-3	Multicultural	ME 407-2	Measurements & Instrumentation
1 Course-2	ENGR 222 or 296 or ME 222	ME 411-3	Mftg Methods for Engineering Materials
ENGR 335-3	Electric Circuits I	ME 475-3	Machine Design I
ENGR 350A-3	Mechanics of Materials (lec & lab)	ME 495A-3	Mechanical Engineering Design
ENGR 351-3	Numerical Methods in Engineering	ME 495B-3	Mechanical Engineering Design
ENGR 370A-3	Fluid Mechanics	ME Electives-15	Select from list of approved courses
ME 300-3	Engineering Thermodynamics I		
Total Hours to Bachelor Degree: 140 Hours			

*Must satisfy a World Cultures & Diversity requirement

Questions? Contact Us!

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

Harper College

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Disclaimer: You are encouraged to use this transfer guide when planning your progress towards degree completion. Following a transfer guide does not guarantee admission into the listed program. Information is assumed current; however, any curriculum changes reflected in the Undergraduate Catalog override the information on this guide. Contact your Academic Advisor for assistance in interpreting this guide.



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.