



# TRANSFER GUIDE

## AES Mechanical Engineering Specialty transferring into BS Mechanical Engineering

| Southwestern Illinois Community College                         |                                    |                 |                                      |
|---|------------------------------------|-----------------|--------------------------------------|
| AES Mechanical Engineering Specialty – 79 hours                 |                                    |                 |                                      |
| COMM 151-3  | Fundamentals of Public Speaking    | MATH 204-5      | Calculus II                          |
| ENG 101-3   | Composition I                      | MATH 205-4      | Calculus III                         |
| ENG 102-3   | Composition II                     | MATH 290-3      | Differential Equations               |
| MATH 203-5  | Calculus I                         | PHYS 204-4      | Physics Mechanics                    |
| Elective-3  | Social & Behavioral Sciences       | PHYS 205-4      | Physics Heat Electricity Magnetism   |
| ECON 202-3  | Prin of Economics II Micro         | ENGR 103-4      | Engineering Graphics                 |
| Elective-3  | Humanities                         | ENGR 263-3      | Analytical Mechanics-Statics         |
| Elective-3  | Fine Arts                          | ENGR 264-3      | Analytical Mechanics-Dynamics        |
| CHEM 105-5  | General Chemistry I                | ENGR 271-3      | Electrical Circuits                  |
| HES 151-2   | Personal Health & Wellness         | ENGR 275-3      | Mechanics of Solids                  |
| CHEM 106-5  | General Chemistry II               | Electives-5     | Select from list of approved courses |
| Southern Illinois University Carbondale Courses Capstone Option |                                    |                 |                                      |
| BS Mechanical Engineering (ME) – 66 hours                       |                                    |                 |                                      |
| Elective-3  | Life Science                       | ME 309-3        | Mechanical Analysis & Design         |
| Elective-3  | Multicultural                      | ME 312 3        | Materials Science Fundamentals       |
| BIOL 202-2  | Human Genetics & Human Health      | ME 336-3        | System Dynamics & Control            |
| 1 Course-2  | ENGR 222 or 296 or ME 222          | ME 401-1        | Thermal Measurements Lab             |
| ENGR 350A-3   | Mechanics of Materials             | ME 407-2        | Measurements & Instrumentation       |
| ENGR 351-3  | Numerical Methods in Engineering   | ME 411-3        | Mfg Methods for Engr Materials       |
| ENGR 370A-3   | Fluid Mechanics                    | ME 475-3        | Machine Design I                     |
| ME 102-2  | Computer-Aided Engineering Drawing | ME 495A-3       | Mechanical Engineering Design        |
| ME 300-3  | Engineering Thermodynamics I       | ME 495B-3       | Mechanical Engineering Design        |
| ME 302-3  | Engineering Heat Transfer          | ME Electives-15 | Select from list of approved courses |
| Total Hours to Bachelor Degree: 145 Hours                       |                                    |                 |                                      |

### 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

**Southwestern Illinois College**  
Bradley Sparks  
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**Southern Illinois University Carbondale**  
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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](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.