

TRANSFER GUIDE

AES Electrical Engineering transferring to BS Industrial Management & Applied Engineering

| John A Logan College Courses | | | |
|--|------------------------------------|------------------|-----------------------------------|
| AES Electrical Engineering – 70 hours | | | |
| ORI/SCI 100-1 | College 101/STEM Fundamentals | CHM 151-5 | Chemical Principles |
| COM 115-3 | Speech | Elective-3 | IAI Life Science |
| ENG 101-3 | English Composition I | CPS 206-4 | Computer Science I |
| ENG 102-3 | English Composition I | EGR 101-3 | Engineering Graphics |
| MAT 131-5 | Calculus I | MAT 201-5 | Calculus II |
| Elective-3 | IAI Social Science | MAT 202-3 | Calculus III |
| Elective-3 | IAI Social Science | MAT 205-3 | Differential Equations |
| Elective-3 | IAI Humanities/Fine Arts | PHY 205-5 | University Physics I |
| Elective-3 | IAI Humanities/Fine Arts | PHY 206-5 | University Physics II |
| Elective-3 | IAI Fine Arts/Humanities | PHY 224-4 | Intro to Circuit Analysis w/Lab |
| Southern Illinois University Carbondale Courses Capstone Option | | | |
| BS Industrial Management & Applied Engineering (IMAE) – 51 hours | | | |
| Elective-3 | Multicultural | IMAE 442-3 | Fundamentals of Leadership |
| IMAE 110-3 | Geometric Dimension Tolerancing | IMAE 445-3 | Computer Integrated Manufacturing |
| IMAE 208-3 | Fund of Manufacturing Processes | IMAE 450-3 | Project Management |
| IMAE 305-3 | Industrial Safety | IMAE 465-3 | Lean Manufacturing |
| IMAE 340-3 | Intro to Supervision | IMAE 470A-3 | Six Sigma Green Belt I |
| IMAE 375-3 | Production & Inventory Mgmt | IMAE 470B-3 | Six Sigma Green Belt II |
| IMAE 390-3 | Cost Estimating | IMAE 476-3 | Supply Chain Management |
| IMAE 392-3 | Facilities Plan & Workplace Design | IMAE Electives-6 | 300/400 level |
| Total Hours to Bachelor Degree: 121 hours | | | |

Questions? Contact Us!

John A Logan College

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Southern Illinois University Carbondale

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Salary Range: \$50,000-\$70,000

Possible Careers: Production Manager
 Manufacturing Engineer
 Quality Engineer
 Plant Manager
 Project Engineer



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 OkaYtheir 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.

| PROGRAM ARTICULATION DEGREE PLAN | | | | | |
|---|------------------------------------|--|---|---|------------|
| John A. Logan College 2024-2025 | | Southern Illinois University Carbondale | | | |
| AES Electrical Engineering - 70 hrs | | BS Industrial Management & Applied Engineering (IMAE) - 120 hrs | | | |
| | | University Core Curriculum (UCC) Capstone Option - 30 hrs | | | |
| | | Hrs | | | Hrs |
| | | | UNIV 101 | Saluki Success | NA |
| COM 115 | Speech | 3 | CMST 101 | Intro to Oral Communication | T |
| ENG 101 | English Composition I | 3 | ENGL 101 | English Composition I | T |
| ENG 102 | English Composition II | 3 | ENGL 102 | English Composition II | T |
| MAT 201 | Calculus II | 5 | MATH 250 | Calculus II | T |
| | IAI Social Science | 3 | SOCIAL SCIENCE | See SIUC Transfer Equivalency Guide | T |
| | IAI Social Science | 3 | SOCIAL SCIENCE | See SIUC Transfer Equivalency Guide | T |
| | IAI Humanities/Fine Arts | 3 | HUMANITIES | See SIUC Transfer Equivalency Guide | T |
| | IAI Humanities/Fine Arts | 3 | HUMANITIES | See SIUC Transfer Equivalency Guide | T |
| CHM 151 | Chemical Principles | 5 | CHEM 200 -and- 201 | Intro to Chemical Principles w/Lab | T |
| | IAI Life Science | 3 | LIFE SCIENCE | See SIUC Transfer Equivalency Guide | T |
| | IAI Fine Arts/Humanities | 3 | FINE ARTS | See SIUC Transfer Equivalency Guide | T |
| | | | HUMAN HEALTH | | NA |
| | | | MULTICULTURAL | | 3 |
| | | 37 | | | 3 |
| Program Requirements | | Program Requirements | | | |
| ORI 100 -or- SCI 100 | College 101 -or- STEM Fundamentals | 1 | The AES degree in Electrical Engineering as articulated fulfills the 15 hours of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE). | | |
| CPS 206 | Computer Science I | 4 | CS 202 -or- ECE 222 (elective) | Intro to Computer Science -or- Intro to Digital Computation | T |
| EGR 101 | Engineering Graphics | 3 | ME 102 (elective) | Computer-Aided Engineering Drawing | T |
| MAT 131 | Calculus I | 5 | IMAE 307 | Applied Calculus for Technology | T |
| MAT 202 | Calculus III | 3 | MATH 251 (elective) | Calculus III | T |
| MAT 205 | Differential Equations | 3 | MATH 305 (elective) | Intro to Differential Equations | T |
| PHY 205 | University Physics I | 5 | PHYS 205A -and- 255A (sub for PHYS 203A -and- 253A) ? | University Physics w/Lab | T |
| PHY 206 | University Physics II | 5 | PHYS 205B -and- 255B (sub for PHYS 203B -and- 253B) ? | University Physics w/Lab | T |
| PHY 224 | Intro to Circuit Analysis w/Lab | 4 | ECE 235 -and- 235L (elective) | Electric Circuits I w/ Lab | T |
| | | 33 | | | |
| | | | IMAE 110 | Geometric Dimensioning & Tolerancing | 3 |
| | | | IMAE 208 | Fundamentals of Manufacturing Processes | 3 |
| | | | IMAE 305 | Industrial Safety | 3 |
| | | | IMAE 340 | Intro to Supervision | 3 |
| | | | IMAE 375 | Production & Inventory Management | 3 |
| | | | IMAE 390 | Cost Estimating | 3 |
| | | | IMAE 392 | Facilities Planning & Workplace Design | 3 |
| | | | IMAE 442 | Fundamentals of Leadership | 3 |
| | | | IMAE 445 | Computer Integrated Manufacturing | 3 |
| | | | IMAE 450 | Project Management | 3 |
| | | | IMAE 465 | Lean Manufacturing | 3 |
| | | | IMAE 470A | Six Sigma Green Belt I | 3 |
| | | | IMAE 470B | Six Sigma Green Belt II | 3 |
| | | | IMAE 476 | Supply Chain Management | 3 |
| | | | IMAE Electives | 300/400 level | 6 |
| | | | | | 48 |
| Total semester hrs completed w/AES degree: | | 70 | Total semester hrs completed w/BS degree: | | 51 |
| | | | Total hrs to BS Degree: | | 121 |
| <i>Degree Plan updated on 9/13/24 by SG</i> | | | | | |