

## TRANSFER GUIDE

### AAS Mechatronics Technology transferring into BS Industrial Mgmt & Applied Engineering

| Oakton Community College Courses                          |  |                 |                                      |
|---|--|-----------------|--------------------------------------|
| AAS Mechatronics Technology – 64 hours                    |  |                 |                                      |
| SPE 103-3   | Effective Speech                                     | ELT 223-3       | Integrated Circuits                  |
| EGL 101-3   | Composition I  | ELT 231-3       | Fundamentals of Microprocessors      |
| MATH 140-3  | College Algebra                                      | MFG 102-3       | Industrial Drafting and Design       |
| PHY 101-4 or<br>PHY 131-4                                 | Applied Physics or<br>College Physics I              | MFG 111-3       | Intro to Computer Integrated Mfg     |
| Elective-3  | Social/Behavioral Science                            | MFG 135-3       | Hydraulics, Pneumatics and Controls  |
| Elective-3  | Humanities/Fine Arts                                 | MFG 140-4       | Intro to Robotics & Vision Systems   |
| ELT 101-5   | Intro to Electronics                                 | MFG 220-3       | Automation Vision Systems            |
| ELT 106-3   | Semiconductor Theory                                 | MFG 240-4       | Programmable Controllers (PLC)       |
| ELT 221-3   | Digital Circuit Fundamentals                         | MFG 250-4       | Advanced PLC/Automation Apps         |
|   |  | Elective-4      | Choose from approved courses         |
| Southern Illinois University Carbondale Courses           |  |                 |                                      |
| BS Industrial Management & Applied Engineering – 64 hours |  |                 |                                      |
| Elective-3  | Social Science                                       | IMAE 376-3      | Supply Chain Ops & Logistics         |
| Elective-3  | Life Science   | IMAE 390-3      | Cost Estimating                      |
| Elective-3  | Fine Arts/Humanities                                 | IMAE 392-3      | Facilities Planning/Workplace Design |
| Elective-3  | Multicultural  | IMAE 442-3      | Fundamentals of Leadership           |
| PHYS 203/253B-4   | College Physics with Lab                             | IMAE 445-3      | Computer Integrated Manufacturing    |
| IMAE 110-3  | Geom Dimensioning & Tolerancing                      | IMAE 450-3      | Project Management                   |
| IMAE 208-3  | Fundamentals of Mfg Processes                        | IMAE 465-3      | Lean Manufacturing                   |
| IMAE 305-3  | Industrial Safety                                    | IMAE 470A-3     | Six Sigma Green Belt I               |
| IMAE 307-3  | Applied Calculus for Technology                      | IMAE 470B-3     | Six Sigma Green Belt II              |
| IMAE 340-3 or<br>PSYC 323-3                               | Intro to Supervision or<br>Organizational Psychology | IMAE 476-3      | Supply Chain Design & Strategy       |
|   |  | IMAE Elective-3 | Must be at 300/400 level             |
| <b>Total Hours to Bachelor Degree: 128 Hours</b>          |  |                 |                                      |

### Questions? Contact Us!

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

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

**Oakton Community College**  
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## Baccalaureate Degree Requirements

Each candidate for a bachelor's degree must complete the requirements listed:

**Hour Requirements.** Each student must complete at least 120 semester hours of credit. Each student must have at least 42 hours in courses that number 300 or above from a four-year institution.

**Residence Requirements.** Each student must complete the residence requirement by taking the last year, which is defined as 30 uninterrupted semester hours, or a total of 90 semester hours at SIU Carbondale.

**Grade Point Average Requirements.** Each student must have a C average for all work taken at SIU Carbondale. Some academic programs may require a higher graduating major GPA.

## Dual Admission Program

The Dual Admission Program (DAP) allows baccalaureate-oriented students at eligible community colleges to benefit from pre-advisement for a chosen major at SIU Carbondale. The DAP addresses specific departmental requirements that a student may not automatically fulfill by completing their associate degree at their community college. Students apply to the DAP by completing the Application for Undergraduate Admission and indicating interest in the DAP. Students must have at least two semesters remaining at their community college to participate, [must select a participating SIU major](#), and [must attend an eligible community college](#). Students who apply for the DAP are provided a transfer plan that will guide them to the most direct route to their bachelor's degree, along with personalized contact with an SIU representative. Dual Admission Program students receive access to enroll in an online Dual Admission Program course, which connects students early to the University, its resources, and other transfer students.

## Compact Agreement

SIU has recognized the Illinois regionally accredited community college transferable baccalaureate oriented Associate of Arts or Associate of Science degrees under the Compact Agreement since 1970. SIU 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). 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.

## Degree Works

*Degree Works* is an easy-to-use, comprehensive, online degree audit tool specifically designed for students. The audit reflects program requirements from the Undergraduate Catalog measured against registration and transfer work to guide the degree audit function as it applies to the individual student. Once admitted to SIU Carbondale, you can run a Degree Works degree audit against your academic record by searching "Degree Works" in [SalukiNet](#).