

Bachelor of Science in Engineering Technology → Emphasis in Applied Manufacturing Technology

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| AAS → Bachelor's Degree Pathway: 120 Hours | | | |
|--|---|---|--|
| Your Community College | | Northern Illinois University | |
| A.A.S. Degree 59 Hrs | + | Bachelor's Foundation Courses 31 Hrs | + |
| | | | 10 NIU Technology Courses 30 Hrs → ONLINE! |

Admissions Requirements & Transfer Recommendations

To be eligible for admission to the B.S. in Engineering Technology degree-completion program, with an emphasis in Applied Manufacturing Technology, you must have completed an Associate of Applied Science (AAS) degree in a technology-oriented related field (see *Technology Area of Study*, below).

Prospective transfer students should do the following:

- 1. Complete and submit an online application for admission at www.niu.edu/admissions/apply (\$40 application fee) along with official copies of academic transcripts to the Office of Admissions. NIU's Transfer Center can be reached at (800) 892-3050 or transfercenter@niu.edu.
- 2. Work with your community college advisor to select the best courses for transfer (i.e., General Education and Program Prerequisites, many of which can be incorporated into an AAS degree program). See below for more details.

Academic Requirements

Undergraduate students must successfully complete all NIU graduation requirements and earn a minimum of 120 semester hours, including general education requirements and 40 hrs in upper-division (300-400 level) courses. Approved transfer courses may be used for these requirements. Students must earn a minimum of 30 hrs at NIU and maintain a minimum cumulative 2.00 ("C") grade point average.

1. General Education and Technology Foundations: Students must complete the following. Consult NIU Articulation Tables for all course equivalents at <https://www.niu.edu/admissions/transfer/credits.shtml>

| General Education Requirements + Technology Foundations | | Carl Sandburg College Equivalents | |
|---|-----------------------------------|---|--|
| General Education (35 Hrs) | Foundational Studies (12 Hrs) | 1 st + 2 nd Year Rhetoric/Composition (6 Hrs) | ENG 101 + 102 |
| | | Oral Communications (3 Hrs) | No equivalent course listed for CSC |
| | | Quantitative Literacy (3 Hrs) | Trigonometry or Pre-calculus is required: MAT 140 (= MATH 155 at NIU) |
| | Knowledge Domain Studies (23 Hrs) | Creativity & Critical Analysis (6 Hrs) | See NIU Articulation Tables |
| | | Nature & Technology (8 bHrs) | <ul style="list-style-type: none"> • CHM 110 • PHY 151 |
| | | Society & Culture (6 Hrs) | See NIU Articulation Tables |
| Gen Ed from any of the Knowledge Domain areas above (3 hrs) | | See NIU Articulation Tables | |
| Human Diversity Requirement (3 hrs) refer to NIU catalog | | Can be satisfied with a Gen Ed course | |
| Additional Technology Foundations | Basic Statistics (3 Hrs) | MTH 210 | |
| | Technical Writing (3 Hrs) | ENG 120 | |
| | Technology (3 Hrs) | DRF 3 hr course (AutoCAD or SolidWorks) | |

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Academic Requirements (Continued)

2. Technology Area of Study

Up to 43 semesters hours of credit for prior learning, from an approved technical Associate of Applied Science degree, may be applied toward the B.S. in Engineering Technology degree-completion program with the consent of the Department Chair and Program Advisor.

The following **CARL SANDBURG COLLEGE** AAS degrees are approved technology programs.

- Biofuels Manufacturing Technology
- Welding
- Rail/Off-Highway Motive Powered Electrical Technician

3. NIU Technology Courses

a. Required NIU Technology Courses (24 semester hours)

- TECH 391: Industrial Quality Control
- TECH 404: Supervision in Industry
- TECH 406: Facilities Management Technology
- TECH 429: Plant Location, Layout & Materials Management
- TECH 432: Disaster Preparedness
- TECH 434: Human Factors in Industrial Accident Prevention
- TECH 492: Manufacturing Distribution Applications
- TECH 496: Industrial Project Management

b. NIU Technology Electives (6 semester hours)

- TECH 305: Green Technologies
- TECH 402: Industrial Training & Evaluation
- TECH 435: Legal Aspects of Safety
- TECH 442: Work Simplification & Measurement
- TECH 444: Manufacturing Control Systems
- TECH 484: Energy Management