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

**Contact:** College of Egr & Egr Tech  
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Ph: (815) 753-1442

### Bachelor’s Foundation Courses

<table>
<thead>
<tr>
<th>Bachelor's Foundation Courses</th>
<th>31 Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st + 2nd Year Rhetoric/Composition (6 Hrs)</td>
<td>ENG 1001 + 1002</td>
</tr>
<tr>
<td>Oral Communications (3 Hrs)</td>
<td>SPH 1001</td>
</tr>
<tr>
<td>Quantitative Literacy (3 Hrs)</td>
<td>Trigonometry or Pre-calculus is required: MTH 1003 &amp; 1004 (both courses); or MTH 1005 = MATH 155 at NIU</td>
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### 1. General Education and Technology Foundations:

- **General Education Requirements + Technology Foundations**
  - **Foundational Studies** (12 Hrs)
    - General Education (35 Hrs)
    - Knowledge Domain Studies (23 Hrs)
      - Creativity & Critical Analysis (6 Hrs)
      - Nature & Technology (8 Hrs)
      - Society & Culture (6 Hrs)
      - Gen Ed from any of the Knowledge Domain areas above (3 hrs)
    - Human Diversity Requirement (3 hrs) refer to NIU catalog
  - Additional Technology Foundations
    - Basic Statistics (3 Hrs)
    - Technical Writing (3 Hrs)
    - Technology (3 Hrs)

  ** Illinois Valley CC Equivalents

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<th>General Education Requirements + Technology Foundations*</th>
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<td>Foundational Studies (12 Hrs)</td>
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<td>Creativity &amp; Critical Analysis (6 Hrs)</td>
<td>See NIU Articulation Tables</td>
</tr>
<tr>
<td>Nature &amp; Technology (8 Hrs)</td>
<td>• CHM 1004</td>
</tr>
<tr>
<td>Society &amp; Culture (6 Hrs)</td>
<td>• PHY 2003</td>
</tr>
<tr>
<td>Gen Ed from any of the Knowledge Domain areas above (3 hrs)</td>
<td>See NIU Articulation Tables</td>
</tr>
<tr>
<td>Human Diversity Requirement (3 hrs)</td>
<td>Can be satisfied with a Gen Ed course</td>
</tr>
</tbody>
</table>

- **Advanced Technology Courses** (10 NIU Technology Courses)

  - 30 Hrs → ONLINE!

  **Your Community College**
  - Northern Illinois University
  - AAS → Bachelor's Degree Pathway: 120 Hours

  + +

  **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](http://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](https://www.niu.edu/admissions/transfer/credits.shtml)
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 **ILLINOIS VALLEY COMMUNITY COLLEGE** AAS degrees are approved technology programs.

- Automotive Technology
- Computer Aided Engineering and Design
- Electrical Construction Technology (IBEW enrolled students only)
- Industrial Electrician
- Engineering Technology
- Manufacturing Technology
- Welding Construction
- Welding Production

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