

## APPENDIX A: Curricular Requirements

A. In addition to completing an approved Associate of Science (AAS) degree, students must complete the following program requirements by taking articulated course equivalents at their community college or with NIU. **(64 hours)**

1. NIU General Education requirements. See NIU course catalog for specifics.
2. Degree requirements not otherwise satisfied through completion of the AAS degree.
  - Physics w/Laboratory (PHYS 150A)
  - Basic Statistics (STAT 208)
  - Computer-Aided Design (TECH 211)
  - Chemistry w/Laboratory (CHEM 110 + 111)
  - Trigonometry and Elementary Functions (MATH 155)
  - A Technical Writing course, determined in consultation with NIU's program advisor.

**31 hrs**

NOTE: Certain of the above courses may satisfy unfilled NIU general education requirements.

B. The upper-division requirements for the Bachelor of Science in Technology (Applied Manufacturing Technology) are as follows.

1. Eight required courses **(24 hrs)**:
  - TECH 391: Industrial Quality Control
  - TECH 404: Supervision in Industry
  - TECH 406: Facilities Management Technology
  - TECH 432: Disaster Preparedness
  - TECH 496: Industrial Project Management
  - TECH 429: Plant Location, Layout & Materials Handling
  - TECH 434: Human Factors in Industrial Accident Prevention
  - TECH 492: Manufacturing Distribution Applications
2. Two electives from the following list **(6 hrs)**
  - TECH 305: Green Technologies
  - TECH 402: Industrial Training and Evaluation
  - TECH 435: Legal Aspects of Safety
  - TECH 442: Work Simplification and Measurement
  - TECH 444: Production Control Systems
  - TECH 484: Energy Management

**30 hrs**

## APPENDIX B: Approved AAS degree programs

The following list of COD AAS degree programs are suitable preparation for the NIU's Bachelor of Science in Technology (Applied Manufacturing Technology) degree-completion program. New AAS programs may be added to this list.

- Architecture
- Automotive Services Technology    Electronics Technology    .Electro-Mechanical Technology
- Facility Management
- Heating, Ventilation, Air Conditioning & Refrigeration
- Manufacturing Technology: Automated Manufacturing Systems; Drafting and Design; or Manufacturing Engineering Technology
- Welding



## Bachelor of Science in 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 → <b>ONLINE!</b>

### Admissions Requirements & Transfer Recommendations

To be eligible for admission to the BS in Technology degree-completion program, with an emphasis in Applied Manufacturing Technology, you must have completed – or be working to complete – an Associate of Applied Science (AAS) degree in a technology-oriented related field (see *Technology Area of Study*, below). If you do not have a related AAS degree, contact NIU's Program Advisor to explore additional options.

Prospective transfer students should do the following:

- 1. Contact NIU's Program Advisor, to review your credentials and create a bachelor's degree completion plan.
- 2. 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](mailto:transfercenter@niu.edu).
- 3. Work with your community college advisor – and NIU'S Program 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 [www.admissions.niu.edu/admissions/transfer/credits/](http://www.admissions.niu.edu/admissions/transfer/credits/).

General Education Requirements + Technology Foundations*		College of DuPage Equivalents	
General Education (35 Hrs)	Foundational Studies (12 Hrs)	1 <sup>st</sup> + 2 <sup>nd</sup> Year Rhetoric/Composition (6 Hrs)	ENGLI 1101 + 1102
		Oral Communications (3 Hrs)	SPEEC 1100
		Quantitative Literacy (3 Hrs)	Trigonometry or Pre-calculus is required: MATH 1432* (= MATH 155 at NIU)
	Knowledge Domain Studies (21 Hrs)	Creativity & Critical Analysis (6-9 Hrs)	See NIU Articulation Tables
		Nature & Technology (8-11 Hrs)	<ul style="list-style-type: none"> <li>• CHEMI 1105 or 1211*</li> <li>• PHYS 1100*</li> <li>• See NIU Articulation Tables</li> </ul>
		Society & Culture (6-9 Hrs)	See NIU Articulation Tables
Additional Technology	Basic Statistics (3 Hrs)	MATH 1635	
	Technical Writing (3 Hrs)	ENGLI 1110	

**Bachelor of Science in Technology → Emphasis in Applied Manufacturing Technology****Academic Requirements (Continued)**

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**1. 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 BS in Technology degree-completion program with the consent of the Department Chair and Program Advisor.

The following **COLLEGE of DUPAGE** AAS degrees are approved technology programs.

- Architecture
- Automotive Services Technology
- Electronics Technology
- Electro-Mechanical Technology
- Facility Management
- Heating, Ventilation, Air Conditioning & Refrigeration
- Manufacturing Technology: Automated Manufacturing Systems; Drafting and Design; Manufacturing Engineering Technology
- Welding

If you have questions about other programs, not listed here, contact the NIU program advisor (above) to review.

**2. 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