

## College of DuPage

### Associate of Applied Science (A.A.S.) – Automated Manufacturing Systems

Transfer guide to the [University of Northern Iowa](#)

### Bachelor of Science (B.S.) – Manufacturing Engineering Technology

#### 1. When will I graduate?

Students transferring to UNI from this A.A.S. program at College of DuPage should **expect to take 62 credits at UNI**. Assuming that the student is starting at UNI during the fall semester, it will take roughly four semesters (two years, a fall/spring/fall/spring sequence), with no summer coursework, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	45
Other credits transferring to UNI	13
Total credits transferring towards UNI degree	58
<b>Total credits needed at UNI</b>	<b>62</b> (120 total)

#### 2. What A.A.S. courses transfer?

Upon completion of this A.A.S. degree, the following courses within the listed program at UNI will be completed:

- TECH 1010 – Fundamentals of Materials Removal (3 cred.)
- TECH 1024 – Engineering Design with CAD (3 cred.)
- TECH 2024 – Technical Drawing with GD&T (3 cred.)
  - Students must complete MANUF 2206 – Mechanical Computer-Aided Drafting/Design at College of DuPage.
- TECH 2072 – Engineering Materials (3 cred.)
- ENGR 2080 – Statics (2 cred.)
  - Students must complete MANUF 1160 – Technical Static & Strength of Material at College of DuPage.
- ENGR 2180 – Strengths of Materials (2 cred.)
  - Students must complete MANUF 1160 – Technical Static & Strength of Material at College of DuPage.
- TECH 3142 – Statistical Quality Control (3 cred.)
- TECH 3147 – Computer-Aided Manufacturing (3 cred.)
- TECH 4162 – Automation: Pneumatics & Hydraulics (3 cred.)
- Additional university electives transferring (20 cred.)

#### 3. What other courses transfer?

Other courses built into this A.A.S. curriculum, or open electives, will also transfer to UNI. The following courses are recommended to take at College of DuPage as part of this A.A.S. curriculum:

- General Education electives
  - Students must complete ENGLI 1101 – English Composition I & ENGLI 1102 – English Composition II at College of DuPage to transfer Written Communications requirement to UNI.
  - MATH 1635 – Statistics
  - PSYCH 1100 – General Psychology *or* SOCIO 1100 – Intro. to Sociology
  - PHYSI 1201 – General Physics I



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#### 4. What would I study at UNI?

By completing the recommended A.A.S. degree plan, the student would be required to complete the courses in black, listed below, at UNI.

Math/Science Coursework		Cr.
CS 1510 <b>or</b> CS 1160	Introduction to Computing <b>or</b> C/C++ Programming	3
CHEM 1020 <b>or</b> CHEM 1110	Chemical Technology <b>or</b> General Chemistry I	4
MATH 1420	Calculus I	4
<del>PHYSICS 1511</del>	<del>General Physics I</del>	<del>4</del>
<b>Total Credits Remaining</b>		<b>11</b>

Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
PHIL 1560	Science, Technology & Ethics	3
TECH 1008	Basic Manufacturing Processes	3
<del>TECH 1010</del>	<del>Fund. of Materials Removal</del>	<del>3</del>
<del>TECH 1024</del>	<del>Engineering Design with CAD</del>	<del>3</del>
<del>TECH 2024</del>	<del>Technical Drawing with GD&amp;T</del>	<del>3</del>
TECH 2036	Power Technology	3
TECH 2065	Industrial Robotics	3
<del>TECH 2072</del>	<del>Engineering Materials</del>	<del>3</del>
<del>ENGR 2080</del>	<del>Statics</del>	<del>2</del>
<del>ENGR 2180</del>	<del>Strengths of Materials</del>	<del>2</del>
TECH 3113	Manufacturing Tooling	3
TECH 3136	Principles of Metal Casting	3
<del>TECH 3142</del>	<del>Statistical Quality Control</del>	<del>3</del>
TECH 3143	Managing Ops. & Manu. Systems	3
<del>TECH 3147</del>	<del>Comp. Aided Manufacturing</del>	<del>3</del>
TECH 3177	Adv. Manufacturing Processes	3
TECH 4137	Tooling Practices in Metal Casting	3
<del>TECH 4162</del>	<del>Automation—Pneu. &amp; Hydrau.</del>	<del>3</del>
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
<b>Total Credits Remaining</b>		<b>36</b>

UNI Foundational Inquiry (UNIFI)		Cr.
<del>WR—Written Communication</del>		<del>3</del>
OC - Oral Communication		3
<del>QR—Quantitative Reasoning</del>		<del>3</del>
<del>HD—Human Condition (Domestic)</del>		<del>3</del>
HG - Human Condition (Global)		3
<del>SR—Scientific Reasoning (with Lab)</del>		<del>4</del>
HE - Human Expression		3
<del>RE—Responsibility</del>		<del>3</del>
UNIFI certificate <b>or</b> UNIFI electives		6
<b>Total UNIFI Credits Remaining</b>		<b>15</b>

**Credits needed to earn UNI degree 62**

#### 5. How would I complete my degree?

Based on the remaining coursework, below is a semester-by-semester breakdown of how the student would complete any remaining requirements at UNI.

Fall 1	Cr.
CS 1160	3
CHEM 1020	4
ENGR 1000	3
TECH 1008	3
UNIFI course	3
<b>Total</b>	<b>16</b>

Spring 1	Cr.
MATH 1150	4
PHIL 1560	3
TECH 3143	3
ENGLISH 3772	3
UNIFI course	3
<b>Total</b>	<b>16</b>

Fall 2	Cr.
TECH 2065	3
TECH 3136	3
TECH 3177	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>15</b>

Spring 2	Cr.
TECH 2036	3
TECH 3113	3
TECH 4137	3
ENGR 4500	3
UNIFI course	3
<b>Total</b>	<b>15</b>

#### Other Important Information

- This transfer guide is based off of the 2023-2024 academic catalogs at UNI & College of DuPage and includes future adjustments to the UNI curriculum.
- Courses listed in the Remaining UNI Plan of Study section are subject to change at any time and are based on a fall semester start.
- This transfer guide assumes the student is only transferring in coursework from this A.A.S. degree plan. Students **may transfer additional credits to UNI**, which will be evaluated on an individual basis.
- The UNI Foundational Inquiry (UNIFI) at UNI is the collection of general education courses required by the institution to fulfill the universities mission. For more information, visit [unifi.uni.edu](http://unifi.uni.edu).