

College of DuPage

Associate of Applied Science (A.A.S.) – Manufacturing Technology Drafting/Design

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 60 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	47
Other credits transferring to UNI	13
Total credits transferring towards UNI degree	60
Total credits needed at UNI	60 (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.)
- TECH 2065 – Industrial Robotics (3 cred.)
 - Students must complete ELMEC 1171 – Introduction to Robotic Technology at College of DuPage.
- TECH 2072 – Engineering Materials (3 cred.)
- TECH 3113 – Manufacturing Tooling (3 cred.)
- TECH 3142 – Statistical Quality Control (3 cred.)
- TECH 4162 – Automation: Pneumatics & Hydraulics (3 cred.)
 - Students must complete ELMEC 1141 – Hydraulics & Pneumatics at College of DuPage.
- Additional university electives transferring (23 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
 - PHYSI 1201 – General Physics I
 - SPEEC 1100 – Fundamentals of Speech Communication



College of DuPage

Associate of Applied Science (A.A.S.) – Manufacturing Technology Drafting/Design

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

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

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 or CS 1160	Introduction to Computing or C/C++ Programming	3
CHEM 1020 or CHEM 1110	Chemical Technology or General Chemistry I	4
MATH 1420	Calculus I	4
PHYSICS 1511	General Physics I	4
Total Credits Remaining		11

Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
PHIL 1560	Science, Technology & Ethics	3
TECH 1008	Basic Manufacturing Processes	3
TECH 1010	Fund. of Materials Removal	3
TECH 1024	Engineering Design with CAD	3
TECH 2024	Technical Drawing with GD&T	3
TECH 2036	Power Technology	3
TECH 2065	Industrial Robotics	3
TECH 2072	Engineering Materials	3
ENGR 2080	Statics	2
ENGR 2180	Strengths of Materials	2
TECH 3113	Manufacturing Tooling	3
TECH 3136	Principles of Metal Casting	3
TECH 3142	Statistical Quality Control	3
TECH 3143	Managing Ops. & Manu. Systems	3
TECH 3147	Comp.-Aided Manufacturing	3
TECH 3177	Adv. Manufacturing Processes	3
TECH 4137	Tooling Practices in Metal Casting	3
TECH 4162	Automation—Pneu. & Hydrau.	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
Total Credits Remaining		34

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

Credits needed to earn UNI degree 60

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
Total	16

Spring 1	Cr.
MATH 1420	4
PHIL 1560	3
ENGLISH 3772	3
UNIFI course	3
UNIFI course	3
Total	16

Fall 2	Cr.
ENGR 2080	2
TECH 3136	3
TECH 3177	3
UNIFI course	3
UNIFI course	3
Total	14

Spring 2	Cr.
ENGR 2180	2
TECH 3143	3
TECH 3147	3
TECH 4137	3
ENGR 4500	3
Total	14

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.