

North Iowa Area Community College
Associate of Applied Science (A.A.S.) –Tool & Die Technology
 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 NIACC should **expect to take 84 credits at UNI**. Assuming that the student is starting at UNI during the fall semester, it will take roughly six semesters (three years, a fall/spring/fall/spring/fall/spring sequence), with no summer coursework, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	16
Other credits transferring to UNI (Gen eds or electives)	20
Total credits transferring towards UNI degree	36
Total credits needed at UNI	84 (120 total)

2. Which A.A.S. courses transfer directly into the MET major?

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

- PHYSICS 1511 – General Physics I (4 cred.)
 - Students must complete **PHY 162** – College Physics I.
- TECH 1010 – Fundamentals of Metal Removal (3 cred.)
- TECH 1024 – Engineering Design with CAD (3 cred.)
- TECH 3113 – Manufacturing Tooling (3 cred.)
- TECH 3147 – Computer-Aided Manufacturing (3 cred.)

3. Which A.A.S. courses transfer directly to UNI as “gen eds” or electives?

Other general education courses built into this A.A.S. curriculum, or open electives, will also transfer to UNI.

- Additional university electives transferring (20 cred.)



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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.
CHEM 1020 or CHEM 1110	Chemical Technology or General Chemistry I	4
CS 1510 or CS 1160	Introduction to Computing or C/C++ Programming	3
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
TECH 1008	Basic Manufacturing Processes	3
TECH 1010	Fund. of Metal Removal	3
TECH 1024	Engineering Design with CAD	3
PHIL 1560	Science, Technology & Ethics	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	Manag. Ops. & Manuf. Systems	3
TECH 3147	Comp.-Aided Manufacturing	3
TECH 3177	Adv. Manufacturing Processes	3
TECH 4137	Tooling Prac. in Metal Casting	3
TECH 4162	Hydraulics & Pneumatics	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
Total Credits Remaining		49

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		9
Total UNIFI Credits Remaining		24

Credits needed to earn UNI degree 84

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
MATH 1420	4
ENGR 1000	3
TECH 1008	3
UNIFI course	3
Total	16

Fall 2	Cr.
TECH 2065	3
ENGR 2080	2
TECH 3177	3
UNIFI course	3
UNIFI course	3
Total	14

Fall 3	Cr.
TECH 3136	3
TECH 3142	3
TECH 4162	3
UNIFI course	3
Total	12

Spring 1	Cr.
CHEM 1020	4
PHIL 1560	3
TECH 2024	3
ENGLISH 3772	3
UNIFI course	3
Total	16

Spring 2	Cr.
TECH 2036	3
TECH 2072	3
ENGR 2180	2
UNIFI course	3
UNIFI course	3
Total	14

Spring 3	Cr.
TECH 3143	3
TECH 4137	3
ENGR 4500	3
UNIFI course	3
Total	12

Other Important Information

- This transfer guide is based off of the 2024-2025 academic catalogs at UNI & North Iowa Area Community College 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.