

Indian Hills Community College
Associate of Applied Science (A.A.S.) – Machine 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 Indian Hills should **expect to take 75 credits at UNI**. Assuming that the student is starting at UNI during the fall semester, it will take roughly five semesters (two and a half years, a fall/spring/fall/spring/fall sequence), with no summer coursework, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	33
Other credits transferring to UNI	12
Total credits transferring towards UNI degree	45
Total credits needed at UNI	75 (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 2065 – Industrial Robotics (3 cred.)
- TECH 3147 – Computer-Aided Manufacturing (3 cred.)
- Additional university electives transferring (21 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 Indian Hills as part of this A.A.S. curriculum:

- General Education: Behavioral/Social Science course (3 cred.)
 - Students should complete PSY 111 – Introduction to Psychology **or** SOC 110 – Introduction to Sociology at Indian Hills.
- General Education: Mathematics course (3 cred.)
 - Students should complete MAT 156 – Statistics at Indian Hills.
- General Education: Science course (3 cred.)
 - Students should complete PHY 101 – Physics & PHY 102 – Physics Lab at Indian Hills
- General Education: Speech course (3 cred.)
 - Students should complete SPC 101 – Fundamentals of Oral Communication **or** SPC 112 – Public Speaking **or** SPC 122 – Interpersonal Communications at Indian Hills.



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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 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. & Manuf. 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. & Hydraul.	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		6
Total UNIFI Credits Remaining		15

Credits needed to earn UNI degree 75

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

Spring 1	Cr.	
CHEM 1020	4	
PHIL 1560	3	
TECH 2024	3	
TECH 2036	3	
UNIFI course	3	
Total		16

Fall 2	Cr.	
ENGR 2080	2	
TECH 3177	3	
ENGLISH 3772	3	
UNIFI course	3	
UNIFI course	3	
Total		14

Spring 2	Cr.	
TECH 2072	3	
ENGR 2180	2	
TECH 3113	3	
TECH 3142	3	
TECH 3143	3	
Total		14

Fall 3	Cr.	
TECH 3136	3	
TECH 4137	3	
TECH 4162	3	
ENGR 4500	3	
UNIFI course	3	
Total		15

Other Important Information

- This transfer guide is based off of the 2023-2024 academic catalogs at UNI & Indian Hills 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.