

Iowa Central Community College

Associate of Applied Science (A.A.S.) – Engineering & Design 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 lowa Central should **expect to take 80 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	17
Other credits transferring to UNI (Gen eds or electives)	23
Total credits transferring towards UNI degree	40
Total credits needed at UNI	

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:

- MATH 1420 Calculus I (4 cred.)
 - Students must complete MAT 210 Calculus I or MAT 749 Technical Math III at Iowa Central.
- TECH 1010 Fundamentals of Metal Removal (3 cred.)
- TECH 1024 Engineering Design with CAD (3 cred.)
- TECH 2024 Technical Drawing with GD&T (3 cred.)
- ENGR 2080 Statics (2 cred.)
- ENGR 2180 Strengths of Materials (2 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.

- Communications elective (3 cred.)
 - Students should complete SPC 101 Fundamentals of Oral Communication or SPC 112 –
 Public Speaking or SPC 122 Interpersonal Communications at Iowa Central.
- Humanities/Social Science elective (3 cred.)
 - Students should complete PSY 111 Introduction to Psychology or SOC 110 Introduction to Sociology at Iowa Central.
- Additional university electives transferring (17 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 Co	oursework	Cr.
CHEM 1020 or	Chemical Technology or	4
CHEM 1110	General Chemistry I	
CS 1510 or	Introduction to Computing or	3
CS 1160	C/C++ Programming	
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	CompAided 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	48

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	21

Credits needed to earn UNI degree 80

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
PHYSICS 1511	4
ENGR 1000	3
TECH 1008	3
Total	13

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all 2	Cr.	
TECH 2065	3	
TECH 3142	3	
ENGLISH 3772	3	
JNIFI course	3	
JNIFI course	3	
Total	15	

Fall 3	Cr.
TECH 3136	3
TECH 3177	3
TECH 4162	3
UNIFI course	3
UNIFI course	3
Total	15

Spring 1	Cr.
CHEM 1020	4
PHIL 1560	3
TECH 2036	3
UNIFI course	3
Total	13

Spring 2	Cr.
TECH 2072	3
TECH 3113	3
TECH 3143	3
UNIFI course	3
Total	12

Cr.
3
3
3
3
12

Other Important Information

- This transfer guide is based off of the 2024-2025 academic catalogs at UNI & Iowa Central 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.