

Iowa Central Community College

Associate of Applied Science (A.A.S.) – Computer Integrated Fabrication 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 Iowa Central should **expect to take 78 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	36
Other credits transferring to UNI	6
Total credits transferring towards UNI degree	42
Total credits needed at UNI	

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:

- PHYSICS 1511 General Physics I (4 cred.)
 - Students must complete PHY 162 College Physics or PHY 184 Applied Physics at Iowa Central.
- 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 3113 Manufacturing Tooling (3 cred.)
- TECH 3147 Computer-Aided Manufacturing (3 cred.)
- Additional university electives transferring (18 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 Iowa Central as part of this A.A.S. curriculum:

- 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.



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Department of Applied Engineering & Technical Management Transfer Guide

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

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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. & Hydrau.	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
	Total Credits Remaining	46

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	12
Total UNIFI Credits Remaining	21

Credits needed to earn UNI degree 78

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 2036	3
ENGLISH 3772	3
UNIFI course	3
Total	16

Spring 2 TECH 2072

ENGR 2180

TECH 3143

TECH 4137

UNIFI course

Cr.

3

2

3

3

3

14

Total

Fall 2	Cr.
TECH 2065	3
ENGR 2080	2
TECH 3142	3
UNIFI course	3
UNIFI course	3
UNIFI course	3
Total	17

	Total	17	
Fall 3		Cr.	
TECH 3136		3	
TECH 3177		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 & 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.