

Iowa Valley Community College

Associate of Science (A.S.) – Engineering Transfer Major

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

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

1. When will I graduate?

Students transferring to UNI from this A.S. program at IVCC should **expect to complete 61 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 course work, to graduate.

Transfer Credit Summary	Credits
A.S. credits transferring directly into UNI program	56
Other credits transferring to UNI (Extra recommended courses)	3
Total credits transferring towards UNI degree	59
Total credits needed at UNI	61 (120 total)

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

Students from a community college that transfer an Associate of Science (A.S.) degree to UNI will automatically transfer all requirements towards the UNIFI general education curriculum to UNI. Students holding an A.S. degree from a community college are exempt from any general education (gen ed) courses at UNI.

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

- CHEM 1110 – General Chemistry I (4 cred.)
- MATH 1420 – Calculus I (4 cred.)
- PHYSICS 1511 – General Physics I (4 cred.)
- All remaining requirements towards the UNIFI general education program at UNI (22 cred.)
- Additional university elective credits transferring to UNI (22 cred.)

3. Extra recommended courses to complete.

The following courses are recommended to take at IVCC as part of the A.S. curriculum or as an elective:

- **MAT 156** – Statistics (3 cred.)



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4. What would I study at UNI?

By completing the recommended 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		3

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 3024	Solid Modeling & Add. Manuf.	3
TECH 3127	Applied Thermodynamics	3
TECH 3135	Product Design	3
TECH 3136	Principles of Metal Casting	3
TECH 3148	Machine Design	3
TECH 4137	Tooling Pract. 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		58

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		0

Credits needed to earn UNI degree 61

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
ENGR 1000	3
TECH 1008	3
TECH 1024	3
TECH 2036	3
ENGR 2080	2
Total	17

Spring 1	Cr.
TECH 1010	3
TECH 2024	3
TECH 2072	3
ENGR 2180	2
ENGLISH 3772	3
Total	14

Fall 2	Cr.
PHIL 1560	3
TECH 2065	3
TECH 3024	3
TECH 3136	3
TECH 3148	3
TECH 4162	3
Total	18

Spring 2	Cr.
TECH 3127	3
TECH 3135	3
TECH 4137	3
ENGR 4500	3
Total	12

Other Important Information

- This transfer guide is based off the 2025-2026 academic catalogs at UNI & Iowa Valley Community College.
- Courses listed in the Remaining UNI Plan of Study (section 5) are subject to change at any time. This plan assumes transfer students start in the fall semester.
- This transfer guide assumes the student is only transferring in coursework from this 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 university's mission. For more information, visit unifi.uni.edu.