

Des Moines Area Community College

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

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.S. program at DMACC should **expect to take 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	53
Other credits transferring to UNI (Gen eds or electives)	6
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 (19 cred.)

3. Extra recommended courses to complete.

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

- **EGR 155** – Engineering C/C++ (3 cred.)
- **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.
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		0

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		61

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
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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.
ENGR 1000	3
TECH 1008	3
TECH 1024	3
TECH 2036	3
TECH 2065	3
ENGR 2080	2
Total	17

Spring 1	Cr.
TECH 1010	3
PHIL 1560	3
TECH 2024	3
TECH 2072	3
ENGR 2180	2
Total	14

Fall 2	Cr.
TECH 3136	3
TECH 3142	3
TECH 3177	3
TECH 4162	3
ENGLISH 3772	3
Total	15

Spring 2	Cr.
TECH 3113	3
TECH 3143	3
TECH 3147	3
TECH 4137	3
ENGR 4500	3
Total	15

Other Important Information

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