

**Des Moines Area Community College**  
**Associate of Applied Science (A.A.S.) – Tool & Diemaking**  
 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 DMACC should **expect to take 84 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	33
Other credits transferring to UNI	3
Total credits transferring towards UNI degree	36
<b>Total credits needed at UNI</b>	<b>84</b> (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:

- MATH 1420 – Calculus I (4 cred.)
  - Students must complete MAT 211 – Calculus I at DMACC.
- TECH 1010 – Fundamentals of Materials Removal (3 cred.)
- TECH 1024 – Engineering Design with CAD (3 cred.)
- TECH 3113 – Manufacturing Tooling (3 cred.)
- Additional university electives transferring (20 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 DMACC as part of this A.A.S. curriculum:

- PSY 102 – Human & Work Relations **or** PSY 111 – Introduction to Psychology **or** SOC 110 – Introduction to Sociology (3 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 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
<del>MATH 1420</del>	<del>Calculus I</del>	<del>4</del>
PHYSICS 1511	General Physics I	4
<b>Total Credits Remaining</b>		<b>11</b>

Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
PHIL 1560	Science, Technology & Ethics	3
<del>TECH 1008</del>	<del>Basic Manufacturing Processes</del>	<del>3</del>
TECH 1010	Fund. of Materials Removal	3
<del>TECH 1024</del>	<del>Engineering Design with CAD</del>	<del>3</del>
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
<del>TECH 3113</del>	<del>Manufacturing Tooling</del>	<del>3</del>
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. & Hyraul.	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
<b>Total Credits Remaining</b>		<b>52</b>

UNI Foundational Inquiry (UNIFI)		Cr.
WR - Written Communication		3
OC - Oral Communication		3
<del>QR – Quantitative Reasoning</del>		<del>3</del>
<del>HD – Human Condition (Domestic)</del>		<del>3</del>
HG - Human Condition (Global)		3
<del>SR – Scientific Reasoning (with Lab)</del>		<del>4</del>
HE - Human Expression		3
<del>RE – Responsibility</del>		<del>3</del>
UNIFI certificate or UNIFI electives		9
<b>Total UNIFI Credits Remaining</b>		<b>21</b>

**Credits needed to earn UNI degree 84**

#### 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
PHIL 1560	3
UNIFI course	3
<b>Total</b>	<b>16</b>

Spring 1	Cr.
CHEM 1020	4
TECH 1010	3
TECH 2024	3
TECH 2036	3
UNIFI course	3
<b>Total</b>	<b>16</b>

Fall 2	Cr.
TECH 2065	3
ENGR 2080	2
TECH 3142	3
ENGLISH 3772	3
UNIFI course	3
<b>Total</b>	<b>14</b>

Spring 2	Cr.
TECH 2072	3
ENGR 2180	2
TECH 3143	3
TECH 3147	3
UNIFI course	3
<b>Total</b>	<b>14</b>

Fall 3	Cr.
TECH 3136	3
TECH 3177	3
TECH 4162	3
UNIFI course	3
<b>Total</b>	<b>12</b>

Spring 3	Cr.
TECH 4137	3
ENGR 4500	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>12</b>

#### Other Important Information

- This transfer guide is based off of the 2023-2024 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.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](http://unifi.uni.edu).