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

A.A.S. courses transferring to UNI
Upon successful completion of the A.A.S. degree highlighted in this transfer guide, the following courses within the Bachelor of Science (B.S.) in Manufacturing Engineering Technology program at the University of Northern Iowa will be satisfied:

<table>
<thead>
<tr>
<th>UNI Course</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1150</td>
<td>Calculus for Technology</td>
<td>4</td>
</tr>
<tr>
<td>TECH 1010</td>
<td>Metal Removal Processes</td>
<td>3</td>
</tr>
<tr>
<td>TECH 1024</td>
<td>Technical Drawing &amp; Design I</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2060</td>
<td>Fund. of Automated Manuf.</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3113</td>
<td>Manufacturing Tooling</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional electives transferring</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td><strong>Grand Credit Total</strong></td>
<td><strong>44</strong></td>
</tr>
</tbody>
</table>

Option A
Students must complete one of the following courses at DMACC in order to successfully transfer the requirement for MATH 1150 – Calculus for Technology at UNI.

<table>
<thead>
<tr>
<th>DMACC Course</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 211</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MAT 773</td>
<td>Applied Math II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Cr.</th>
</tr>
</thead>
<tbody>
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<td>Calculus for Technology</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional electives transferring</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td><strong>Grand Credit Total</strong></td>
<td><strong>44</strong></td>
</tr>
</tbody>
</table>

Other courses transferring to UNI
Additional coursework built into this A.A.S. degree program may also transfer to the University of Northern Iowa. These courses satisfy requirements towards UNI’s Foundational Inquiry (UNIFI) unless otherwise noted. For more information about UNIFI, please see the reverse of this document.

Recommended as part of A.A.S. degree plan
Students should choose one of the courses below to fulfill an A.A.S. elective requirement.

<table>
<thead>
<tr>
<th>DMACC Course</th>
<th>Course Title</th>
<th>UNIFI</th>
<th>Credit Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 102</td>
<td>Human &amp; Work Relations</td>
<td>HD</td>
<td>3</td>
</tr>
<tr>
<td>PSY 111</td>
<td>Intro to Psychology</td>
<td>HD</td>
<td>3</td>
</tr>
<tr>
<td>SOC 110</td>
<td>Intro to Sociology</td>
<td>HD</td>
<td>3</td>
</tr>
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</table>

Credit Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.A.S. credits transferring to UNI</td>
<td>44</td>
</tr>
<tr>
<td>Other credits transferring to UNI</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total credits towards UNI degree</strong></td>
<td><strong>47</strong></td>
</tr>
<tr>
<td>Total credits needed at UNI</td>
<td><strong>79</strong></td>
</tr>
</tbody>
</table>

* The UNIFI column lists the category each course satisfies at UNI.
Remaining UNI Coursework
By completing the recommended A.A.S. degree plan, courses highlighted in red will transfer into the Manufacturing Engineering Technology program at UNI.

<table>
<thead>
<tr>
<th>Math/Science Coursework</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1020 or CHEM 1110</td>
<td>4</td>
</tr>
<tr>
<td>Chemical Technology or General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>Also satisfies UNIFI category SR</td>
<td></td>
</tr>
<tr>
<td>MATH 1150 or MATH 1420</td>
<td>4</td>
</tr>
<tr>
<td>Calculus for Technology or Calculus I</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 1511</td>
<td>4</td>
</tr>
<tr>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>Also satisfies UNIFI category SR</td>
<td></td>
</tr>
<tr>
<td>Total Credits Remaining</td>
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</table>

Remaining UNI Plan of Study
Based on the remaining coursework, below is a semester-by-semester breakdown of how a student would complete the remaining requirements at UNI.

<table>
<thead>
<tr>
<th>Semester 1 Cr.</th>
<th>Semester 2 Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1020</td>
<td>PHYSICS 1511</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>TECH 1008</td>
<td>TECH 3108</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3196</td>
<td>UNIFI</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
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<tr>
<td>Total 16</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Semester 3 Cr.</th>
<th>Semester 4 Cr.</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>TECH 2080</td>
<td>TECH 2072</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3143</td>
<td>TECH 3180</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4110</td>
<td>TECH 4110</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Emphasis area</td>
<td>UNIFI</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Total 16</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 5 Cr.</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>TECH 4107</td>
<td></td>
</tr>
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<td>3</td>
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<tr>
<td>Emphasis area</td>
<td>ENGLISH 3772</td>
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<tr>
<td>6</td>
<td>3</td>
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<tr>
<td>UNIFI</td>
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</tr>
<tr>
<td>4</td>
<td></td>
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<tr>
<td>Total 16</td>
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</tbody>
</table>

Other Important Information
- This transfer guide is based off of the 2022-2023 academic catalogs at UNI & Des Moines Area Community College.
- 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.