

## Black Hawk College

### Associate of Applied Science (A.A.S.) – Engineering Technology-Mechanical Track

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 Black Hawk should **expect to take 76 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	44
Other credits transferring to UNI	0
Total credits transferring towards UNI degree	44
<b>Total credits needed at UNI</b>	<b>76</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:

- CS 1510 – Introduction to Computing (3 cred.)
  - Students must complete ENGT 224 – Computer Programming at Black Hawk.
- MATH 1420 – Calculus I (4 cred.)
  - Students must complete MATH 223 – Technical Calculus at Black Hawk.
- PHYSICS 1511 – General Physics I (4 cred.)
  - Students must complete PHYS 101 – College Physics I at Black Hawk.
- TECH 1024 – Engineering Design with CAD (3 cred.)
- TECH 2024 – Technical Drawing with GD&T (3 cred.)
- TECH 2036 – Power Technology (3 cred.)
- TECH 2072 – Engineering Materials (3 cred.)
- ENGR 2080 – Statics (2 cred.)
- ENGR 2180 – Strengths of Materials (2 cred.)
- TECH 4162 – Automation: Pneumatics & Hydraulics (3 cred.)
- Additional university electives transferring (14 cred.)



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

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
<del>TECH 1024</del>	<del>Engineering Design with CAD</del>	<del>3</del>
<del>TECH 2024</del>	<del>Technical Drawing with GD&amp;T</del>	<del>3</del>
<del>TECH 2036</del>	<del>Power Technology</del>	<del>3</del>
TECH 2065	Industrial Robotics	3
<del>TECH 2072</del>	<del>Engineering Materials</del>	<del>3</del>
<del>ENGR 2080</del>	<del>Statics</del>	<del>2</del>
<del>ENGR 2180</del>	<del>Strengths of Materials</del>	<del>2</del>
TECH 3113	Manufacturing Tooling	3
TECH 3136	Principles of Metal Casting	3
TECH 3142	Statistical Quality Control	3
TECH 3143	Managing Ops. & Manu. Systems	3
TECH 3147	Comp.-Aided Manufacturing	3
TECH 3177	Adv. Manufacturing Processes	3
TECH 4137	Tooling Practices in Metal Casting	3
<del>TECH 4162</del>	<del>Automation—Pneu. &amp; Hydrau.</del>	<del>3</del>
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
<b>Total Credits Remaining</b>		<b>42</b>

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
<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		12
<b>Total UNIFI Credits Remaining</b>		<b>30</b>

**Credits needed to earn UNI degree 76**

#### 4. 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.
CHEM 1020	4
ENGR 1000	3
TECH 1008	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>16</b>

Spring 1	Cr.
PHIL 1560	3
TECH 1010	3
ENGLISH 3772	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>15</b>

Fall 2	Cr.
TECH 2065	3
TECH 3142	3
UNIFI course	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>15</b>

Spring 2	Cr.
TECH 3113	3
TECH 3143	3
TECH 3147	3
TECH 4137	3
UNIFI course	3
<b>Total</b>	<b>15</b>

Fall 3	Cr.
TECH 3136	3
TECH 3177	3
ENGR 4500	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>15</b>

#### Other Important Information

- This transfer guide is based off of the 2023-2024 academic catalogs at UNI & Black Hawk 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).