

## Hawkeye Community College

### Associate of Applied Science (A.A.S.) – CNC Machining & Tool-Making Technology

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

### Bachelor of Science (B.S.) – Automation 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 Automation Engineering Technology program at the University of Northern Iowa will be satisfied:

UNI Course	Course Title	Cr.
TECH 1010	Metal Removal Processes	3
TECH 1024	Technical Drawing & Design I	3
TECH 2060	Fundamentals of Auto. Manuf.	3
	Technical Electives	15
	Additional electives transferring	26
<b>Grand Credit Total</b>		<b>50</b>

Credit Summary	Cr.
A.A.S. credits transferring to UNI	50
Other credits transferring to UNI	9
<b>Total credits towards UNI degree</b>	<b>59</b>
Total credits needed at UNI	67

#### 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.

#### Required by A.A.S. degree plan

The course listed below is required as part of this A.A.S. curriculum.

HCC Course	Course Title	UNIFI
SPC 101	Fund. of Oral Communication	OC
<b>Credit Total</b>		<b>3</b>

\* The UNIFI column lists the category each course satisfies at UNI.

#### Recommended as part of A.A.S. degree plan

Students should choose **one** course from each of the two groups below to fulfill an A.A.S. elective requirement.

HCC Course	Course Title	UNIFI
MAT 110 <b>or</b> MAT 156	Math for Liberal Arts <b>or</b> Statistics	QR
PSY 102 <b>or</b> PSY 111 <b>or</b> SOC 110	Human & Work Relations <b>or</b> Intro to Psychology <b>or</b> Intro to Sociology	HD
<b>Credit Total</b>		<b>6</b>

\* The UNIFI column lists the category each course satisfies at UNI.

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### Bachelor of Science (B.S.) – Automation Engineering Technology

#### Remaining UNI Coursework

By completing the recommended A.A.S. degree plan, courses highlighted in red will transfer into the Automation Engineering Technology program at UNI.

Math/Science Coursework		Cr.
CS 1160	C/C+ Programming	3
MATH 1150 or MATH 1420	Calculus for Technology or Calculus I	4
PHYSICS 1511	General Physics I <i>Satisfies UNIFI category SR.</i>	4
<del>STAT 1772</del>	<del>Intro to Statistical Methods</del> <i>Satisfies UNIFI category QR.</i>	<del>3</del>
<b>Total Credits Remaining</b>		<b>11</b>

Technical Core		Cr.
<del>TECH 1010</del>	<del>Metal Removal Processes</del>	<del>3</del>
<del>TECH 1024</del>	<del>Technical Drawing &amp; Design I</del>	<del>3</del>
TECH 1037	Intro to Circuits	3
TECH 1039	Circuits & Systems	3
TECH 2038	Intro to Elec. Power & Mach.	3
TECH 2042	Intro to Digital Electronics	3
<del>TECH 2060</del>	<del>Fundamentals of Auto Manuf.</del>	<del>3</del>
TECH 2080	Statics & Strengths of Materials	3
TECH 3147	Computer-Aided Manufacturing	3
TECH 3148	Machine Design	3
TECH 3160	Comp.-Aided Instru. & Inter.	3
TECH 3164	Prog. Logic Controllers	3
TECH 4162	Automation: Pneu & Hydrau.	3
TECH 4210 or TECH 4220	Manuf. Senior Projects or Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
	<del>Technical Electives</del>	<del>15</del>
<b>Total Credits Remaining</b>		<b>36</b>

UNI Foundational Inquiry (UNIFI)		Cr.
WR - Written Communication		3
<del>OC – Oral Communication</del>		<del>3</del>
<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
RE - Responsibility		3
UNIFI certificate or UNIFI electives		8
<b>Total UNIFI Credits Remaining</b>		<b>20</b>

**Credits needed to earn UNI degree 67**

#### 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.

Semester 1	Cr.
PHYSICS 1511	4
TECH 1037	3
UNIFI	6
<b>Total</b>	<b>13</b>

Semester 2	Cr.
MATH 1150	4
TECH 1039	3
TECH 2080	3
TECH 3164	3
<b>Total</b>	<b>13</b>

Semester 3	Cr.
CS 1160	3
TECH 2038	3
TECH 2042	3
ENGLISH 3772	3
UNIFI	2
<b>Total</b>	<b>14</b>

Semester 4	Cr.
TECH 3147	3
TECH 3160	3
UNIFI	9
<b>Total</b>	<b>15</b>

Semester 5	Cr.
TECH 3148	3
TECH 4162	3
TECH 4210	3
UNIFI	3
<b>Total</b>	<b>12</b>

#### Other Important Information

- This transfer guide is based off of the 2022-2023 academic catalogs at UNI & Hawkeye 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](http://unifi.uni.edu).