

## College of DuPage

### Associate of Applied Science (A.A.S.) – Integrated Mechatronics & Manuf. Technology

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

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

#### 1. When will I graduate?

Students transferring to UNI from this A.A.S. program at College of DuPage should **expect to complete 58 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 coursework, to graduate.

| Transfer Credit Summary                                  | Credits                  |
|--|--------------------------|
| A.A.S. credits transferring directly into UNI major      | 33                       |
| Other credits transferring to UNI (Gen eds or electives) | 29                       |
| Total credits transferring towards UNI degree            | 62                       |
| <b>Total credits needed at UNI</b>                       | <b>58</b><br>(120 total) |

#### 2. Which A.A.S. courses transfer directly into the AET major?

Upon completion of this A.A.S. degree, the following courses within the listed program at UNI will be completed.

- TECH 1010 – Fundamentals of Metal Removal (3 cred.)
- TECH 1024 – Engineering Design with CAD (3 cred.)
- TECH 1037 – Introduction to Circuits (3 cred.)
- TECH 1039 – Circuits & Systems (3 cred.)
  - Students must complete **ELECT 1101** – Circuits I & **ELECT 1102** – Circuits II at College of DuPage.
- TECH 3147 – Computer-Aided Manufacturing (3 cred.)
- TECH 3160 – Computer-Aided Instrumentation & Interfacing (3 cred.)
- TECH 3164 – Programmable Logic Controllers (3 cred.)
- TECH 4162 – Hydraulics & Pneumatics (3 cred.)
- AET Electives (9 cred.)

#### 3. Which A.A.S. courses transfer directly to UNI as “gen eds” or electives?

Other courses built into this A.A.S. curriculum, or open electives, will also transfer to UNI. The following courses are recommended to complete at College of DuPage as part of this A.A.S. curriculum:

- General Education electives (13 cred.)
  - **ENGLI 1101** – English Composition I & **ENGLI 1102** – English Composition II
    - Students must complete ENGLI 1101 – English Composition I & ENGLI 1102 – English Composition II at College of DuPage to satisfy the Written Communication requirement at UNI.
  - **HISTO 1130** – History of the United States to 1865 or **HISTO 1140** – History of the United States Since 1865.
  - **MATH 1635** – Statistics
  - **PHYSI 1201** – General Physics I
- Additional university electives transferring to UNI (16 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 1160                   | C/C++ Programming                        | 3            |
| MATH 1150 or<br>MATH 1420 | Calculus for Technology or<br>Calculus I | 4            |
| <del>PHYSICS 1511</del>   | <del>General Physics I</del>             | <del>4</del> |
| <del>STAT 1772</del>      | <del>Intro to Statistical Methods</del>  | <del>3</del> |
| Total Credits Remaining   |  | 7            |

| Technical Core          |   | Cr.          |
|-------------------------|---|--------------|
| ENGR 1000               | Intro. to Eng. & Prof. Practices            | 3            |
| <del>TECH 1010</del>    | <del>Fund. of Metal Removal</del>           | <del>3</del> |
| <del>TECH 1024</del>    | <del>Engineering Design with CAD</del>      | <del>3</del> |
| <del>TECH 1037</del>    | <del>Introduction to Circuits</del>         | <del>3</del> |
| <del>TECH 1039</del>    | <del>Circuits &amp; Systems</del>           | <del>3</del> |
| PHIL 1560               | Science, Technology & Ethics                | 3            |
| TECH 2053               | Digital Electronics                         | 4            |
| TECH 2055               | Elec. Power Systems & Mach.                 | 4            |
| TECH 2065               | Industrial Robotics                         | 3            |
| ENGR 2080               | Statics                                     | 2            |
| ENGR 2180               | Strengths of Materials                      | 2            |
| <del>TECH 3147</del>    | <del>Computer-Aided Manufacturing</del>     | <del>3</del> |
| TECH 3148               | Machine Design                              | 3            |
| <del>TECH 3160</del>    | <del>Comp.-Aided Instru. &amp; Inter.</del> | <del>3</del> |
| <del>TECH 3164</del>    | <del>Prog. Logic Controllers</del>          | <del>3</del> |
| <del>TECH 4162</del>    | <del>Hydraulics &amp; Pneumatics</del>      | <del>3</del> |
| ENGR 4500               | Senior Design                               | 3            |
| ENGLISH 3772            | Tech. Writing for Eng. Tech.                | 3            |
|                         | <del>AET Electives</del>                    | <del>9</del> |
| Total Credits Remaining |   | 30           |

| UNI Foundational Inquiry (UNIFI)                |  | Cr.          |
|---|--|--------------|
| <del>WR – Written Communication</del>           |  | <del>3</del> |
| 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            |  | 12           |
| Total UNIFI Credits Remaining                   |  | 21           |

Credits needed to earn UNI degree 58

#### 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   |
| MATH 1420 | 4   |
| ENGR 1000 | 3   |
| TECH 2053 | 4   |
|           |     |
|           |     |
| Total     | 14  |

| Fall 2       | Cr. |
|--------------|-----|
| TECH 2065    | 3   |
| ENGR 2180    | 2   |
| TECH 3148    | 3   |
| UNIFI course | 3   |
| UNIFI course | 3   |
|              |     |
| Total        | 14  |

| Spring 1     | Cr. |
|--------------|-----|
| PHIL 1560    | 3   |
| TECH 2055    | 4   |
| ENGR 2080    | 2   |
| ENGLISH 3772 | 3   |
| UNIFI course | 3   |
|              |     |
| Total        | 15  |

| Spring 2     | Cr. |
|--------------|-----|
| ENGR 4500    | 3   |
| UNIFI course | 3   |
| UNIFI course | 3   |
| UNIFI course | 3   |
| UNIFI course | 3   |
|              |     |
| Total        | 15  |

#### Other Important Information

- This transfer guide is based off the 2025-2026 academic catalogs at UNI & College of DuPage.
- Courses listed in the Remaining UNI Plan of Study (section 5) are subject to change at any time. This plan assumes transfer students start in the fall semester.
- 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 university's mission. For more information, visit [unifi.uni.edu](http://unifi.uni.edu).