

## College of DuPage

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

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

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

#### 1. When will I graduate?

Students transferring to UNI from this A.A.S. program at DuPage should **expect to take 70 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 | 37                       |
| Other credits transferring to UNI                     | 13                       |
| Total credits transferring towards UNI degree         | 50                       |
| <b>Total credits needed at UNI</b>                    | <b>70</b><br>(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:

- 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 2055 – Electrical Power & Machinery & Lab (4 cred.)
- TECH 3160 – Computer-Aided Instrumentation & Interfacing (3 cred.)
- TECH 3164 – Programmable Logic Controllers (3 cred.)
- Additional university electives transferring (21 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 DuPage as part of this A.A.S. curriculum:

- General Education electives
  - Students must complete ENGLI 1101 – English Composition I & ENGLI 1102 – English Composition II at College of DuPage to transfer Written Communications requirement to UNI.
  - HISTO 1130 – History of the United States to 1865 *or* HISTO 1140 – History of the United States Since 1865
  - MATH 1431 – Precalculus I
  - MATH 1635 - Statistics



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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            |
| <del>MATH 1140</del>             | <del>Precalculus</del>                          | <del>4</del> |
| MATH 1150 <b>or</b><br>MATH 1420 | Calculus for Technology <b>or</b><br>Calculus I | 4            |
| PHYSICS 1511                     | General Physics I                               | 4            |
| <del>STAT 1772</del>             | <del>Intro to Statistical Methods</del>         | <del>3</del> |
| <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 1037</del>           | <del>Intro to Circuits</del>                          | <del>3</del> |
| <del>TECH 1039</del>           | <del>Circuits &amp; Systems</del>                     | <del>3</del> |
| TECH 2051                      | Analog Electronics & Lab                              | 4            |
| TECH 2053                      | Digital Electronics & Lab                             | 4            |
| <del>TECH 2055</del>           | <del>Electrical Power &amp; Machinery &amp; Lab</del> | <del>4</del> |
| TECH 3129                      | Linear Control Systems                                | 3            |
| TECH 3157                      | Microcontroller Applications                          | 3            |
| <del>TECH 3160</del>           | <del>Comp. Aided Instru. &amp; Interfacing</del>      | <del>3</del> |
| <del>TECH 3164</del>           | <del>Prog. Logic Controllers</del>                    | <del>3</del> |
| TECH 4103                      | Electronic Communications                             | 3            |
| TECH 4104                      | App. Digital Signal Processing                        | 3            |
| TECH 4165                      | Wireless Comm. Networks                               | 3            |
| TECH 4167                      | Power Electronics Applications                        | 3            |
| ENGR 4500                      | Senior Design   | 3            |
| ENGLISH 3772                   | Tech. Writing for Eng. Tech.                          | 3            |
| <b>Total Credits Remaining</b> |   | <b>38</b>    |

| 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 <b>or</b> UNIFI electives     |  | 12           |
| <b>Total UNIFI Credits Remaining</b>            |  | <b>21</b>    |

**Credits needed to earn UNI degree 70**

#### 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         |
| ENGR 1000    | 3         |
| TECH 2051    | 4         |
| TECH 2053    | 4         |
|              |           |
| <b>Total</b> | <b>14</b> |

| Spring 1     | Cr.       |
|--------------|-----------|
| MATH 1150    | 4         |
| PHIL 1560    | 3         |
| UNIFI course | 3         |
| UNIFI course | 3         |
| UNIFI course | 3         |
|              |           |
| <b>Total</b> | <b>16</b> |

| Fall 2       | Cr.       |
|--------------|-----------|
| PHYSICS 1511 | 4         |
| TECH 3129    | 3         |
| TECH 3157    | 3         |
| ENGLISH 3772 | 3         |
|              |           |
| <b>Total</b> | <b>13</b> |

| Spring 2     | Cr.       |
|--------------|-----------|
| TECH 4104    | 3         |
| TECH 4167    | 3         |
| UNIFI course | 3         |
| UNIFI course | 3         |
| UNIFI course | 3         |
|              |           |
| <b>Total</b> | <b>15</b> |

| Fall 3       | Cr.       |
|--------------|-----------|
| TECH 4103    | 3         |
| TECH 4165    | 3         |
| ENGR 4500    | 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 & College of DuPage 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).