

Des Moines Area Community College

Associate of Applied Science (A.A.S.) – Electronics Engineering Technology

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

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

UNI Course	Course Title	Cr.
MATH 1140	Precalculus <i>Please see Option A below. Also satisfies UNIFI category QR.</i>	4
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
TECH 4103	Electronic Communications	3
	Additional EET course options <i>Please see Option B below.</i>	6
	Additional electives transferring	24
Grand Credit Total		49

Option A

Students **must complete** the following courses at DMACC in order to successfully transfer the requirement for MATH 1140 - Precalculus at UNI.

DMACC Course	Course Title
MAT 129	Precalculus <i>Also satisfies UNIFI category QR.</i>

Option B

Students at DMACC have the option to complete a pair of classes below in order to successfully transfer additional coursework to UNI

DMACC Course	Course Title
ELT 622 & ELT 623	Microcontrollers & Lab <i>Transfers to UNI as TECH 3157.</i>
ELT 123	Programmable Controllers <i>Transfers to UNI as TECH 3164.</i>

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.

DMACC Course	Course Title	UNIFI
ART 101 or MUS 101	Art Appreciation or Music Appreciation	HE
Credit Total		3

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

Credit Summary	Cr.
A.A.S. credits transferring to UNI	49
Other credits transferring to UNI	3
Total credits towards UNI degree	52
Total credits needed at UNI	74

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Remaining UNI Coursework

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

Math/Science Coursework		Cr.
CS 1160	C/C+ Programming	3
MATH 1140	Precalculus	4
MATH 1150 or MATH 1420	Calculus for Technology or Calculus I	4
PHYSICS 1511	General Physics I <i>Also satisfies UNIFI category SR.</i>	4
STAT 1772	Intro to Statistical Methods <i>Also satisfies UNIFI category QR.</i>	3
Total Credits Remaining		14

Technical Core		Cr.
TECH 1037	Intro-to-Circuits	3
TECH 1039	Circuits & Systems	3
TECH 2038	Intro-to Elec. Power & Machinery	3
TECH 2041	Intro to Analog Electronics	3
TECH 2042	Intro-to Digital Electronics	3
TECH 3129	Linear Control Systems	3
TECH 3152	Advanced Analog Electronics	3
TECH 3156	Advanced Digital Electronics	3
TECH 3157	Microcontroller Applications	3
TECH 3160	Comp.-Aided Instru. & Interfacing	3
TECH 3164	Prog. Logic Controllers	3
TECH 3166	Adv. Electrical Power Systems	3
TECH 4103	Electronic Communications	3
TECH 4104	App. Digital Signal Processing	3
TECH 4165	Wireless Comm. Networks	3
TECH 4167	Power Electronics Applications	3
TECH 4220	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
Total Credits Remaining		33

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
SR – Scientific Reasoning (with Lab)		3
HE – Human Expression		3
RE - Responsibility		3
UNIFI certificate or UNIFI electives		12
Total UNIFI Credits Remaining		27

Credits needed to earn UNI degree 74

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.
CS 1160	3
TECH 2041	3
UNIFI	9
Total	15

Semester 2	Cr.
MATH 1150	4
TECH 3152	3
TECH 3156	3
ENGLISH 3772	3
Total	13

Semester 3	Cr.
PHYSICS 1511	4
STAT 1772	3
UNIFI	9
Total	16

Semester 4	Cr.
TECH 3160	3
TECH 3166	3
TECH 4104	3
TECH 4167	3
TECH 4220	3
Total	15

Semester 5	Cr.
TECH 3129	3
TECH 4165	3
UNIFI	9
Total	15

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.