

**An Articulation Agreement Between:
University of Wisconsin (UW) Oshkosh
Northeast Wisconsin Technical College (NWTC)**

WTCS Degree Type and Program: A.A.S. in Electrical Engineering Technology
UW Degree Type and Major: B.S. with a major in Electrical Engineering Technology

Effective Date: July 1, 2019

Next Review Date: May 1, 2021

New Agreement

Revised Agreement – original agreement signed 15 Dec 2014
– first revision signed 5 July 2017

Agreement Description and Rationale:

This articulation agreement is being established in order to expand educational opportunities for students enrolled in engineering technology programs in northeast Wisconsin. Students enrolling at any higher educational institution in northeast Wisconsin will be able to start their degree at any campus and finish a bachelor's degree in engineering technology at UW Oshkosh. The B.S. degree with a major in Electrical Engineering Technology will be conferred by UW Oshkosh after the successful completion of the specified UW Oshkosh courses in residence at UW Oshkosh in addition to the UW Oshkosh courses transferred from a partnered institution. This will allow for current associate degree holders, new students, and returning students to maximize their educational experiences and decrease redundancy in courses taken and reducing time to degree.

An articulation agreement between the A.A.S. degree in Electrical Engineering Technology offered at NWTC and the B.S. degree in Electrical Engineering Technology at UW Oshkosh is justified by the close alignment of the curriculums, which leads to efficient transfer of credits and a natural extension of student learning in the transition from a two-year to a four-year degree program.

This articulation agreement is entered into with the understanding that both parties shall remain properly accredited with their respective accrediting bodies, to wit:

- UW Oshkosh: The Higher Learning Commission
- Northeast Wisconsin Technical College: The Higher Learning Commission

Here follows the curriculum agreed upon in this Articulation between UW Oshkosh and Northeast Wisconsin Technical College:

Admission Requirements/Conditions Specific to this Agreement:

Requirements are identical to those required for general admission to UW Oshkosh.

Articulation Transfer Agreement Terms:

The terms of this agreement apply to Northeast Wisconsin Technical College students who successfully complete the A.A.S. degree in Electrical Engineering Technology; meet the admission requirements set forth below for the UW Oshkosh; and enroll in the B.S. degree with a major in Electrical Engineering Technology.

A transfer course/credit articulation table illustrating the list of courses the student must complete to earn the B.S. degree with a major in Electrical Engineering Technology at UW Oshkosh; course/credit requirements fulfilled at Northeast Wisconsin Technical College; and courses the student must take at UW Oshkosh may be found in Appendix A.

Students must meet the following requirements to confer the B.S. degree with a major in Electrical Engineering Technology at UW Oshkosh:

- The minimum number of credits to earn the B.S. degree from UW Oshkosh is 120.
- A minimum cumulative GPA of 2.0.

- Upper level course work: A minimum of 35 credits must be completed at 300-level or above.
- Credits from four-year institutions: A minimum of 48 credits must be earned from four-year institutions. This does not limit the number of credits that can be transferred from WTCS institutions to UW Oshkosh.
- Credits from UW Oshkosh: A minimum of 30 credits must be earned from UW Oshkosh.
- Residency requirement: Completion of 15 of the last 30 credits earned toward the degree must be from UW Oshkosh.
- Satisfactory completion of the degree credit requirements listed in Appendix A.

Additional coursework completed at Northeast Wisconsin Technical College may be transferrable to satisfy UW Oshkosh general education or breadth requirements. These courses are listed in Appendix A or are searchable through the UW System Transfer Information System (TIS) Wizards (<https://www.wisconsin.edu/transfer/wizards/>).

Approved by:

University of Wisconsin Oshkosh

Northeast Wisconsin Technical College

Colleen McDermott
Dean of College of Letters & Science Date

Mark Weber
Dean of Trades & Engineering Technologies Date

John Koker
Provost & Vice Chancellor Date

Lori Suddick
Vice President for Learning Date

Andrew Leavitt
Chancellor Date

H Jeffrey Rafn
President Date

Appendix A
University of Wisconsin (UW) Oshkosh

WTCS Degree Type and Program: A.A.S. in Electrical Engineering Technology
UW Degree Type and Major: B.S. with a major in Electrical Engineering Technology

Effective Date: July 1, 2019

Table accompanies new agreement Revised table for existing agreement

Transfer Course/Credit Articulation Table:

Northeast Wisconsin Technical College A.A.S. in Electrical Engineering Technology Transferable Courses/Credits				UW Oshkosh B.S. with a major in Electrical Engineering Technology All Program Course Requirements			
Table 1: General Education / Breadth Requirements*							
Course	Title	Gen Ed Area	Xfr Cr.	Course	Title	Gen Ed Area	Req Cr.
801 136	English Composition 1	Comm	3	WBIS 188	Writing Seminar (3 cr)	WBIS	0
				COM 111	Intro to Public Speaking (3 cr)	COMM	3
809 195	Economics	Soc Sci	3	ECON 106	General Economics (3 cr)	XS	0
809 198	Intro to Psychology	Soc Sci	3	PSCH 101	Intro Psychology (3 cr)	XS	0
					History Course (3 cr)	XS	3
					Ethnic Studies Course (3 cr)	XS, ES	3
					Humanities Course (3 cr)	XC	3
					Humanities Course (3 cr)	XC	3
					English Literature (3 cr)	XC	3
					Global Citizen Course (3 cr)	XC, GC	3
				ENGL 312	Advanced Composition (3 cr)	CONN	3
809 172	Intro to Diversity Studies	Soc Sci	3	SOC 1	Sociology Elective (3 cr)	elective	
801 197	Technical Reporting	Comm	3	ENGL 317	Technical Writing (3 cr)	elective	
General Education Transfer Credits			15	General Education Total – 55-58 credits (includes gen ed credits from Table 2)			24

*Additional coursework not listed here may be transferable to satisfy general education or breadth requirements and are searchable through the UW System Transfer Information System (TIS) Wizards (<https://www.wisconsin.edu/transfer/wizards/>).

Table 2: Major Program Requirements							
Course	Title	Gen Ed Area	Cr.	Course	Title	Gen Ed Area	Cr.
Support Group (all courses required)							
804 198	Calculus 1	Math	4	MATH 171	Calculus I (5 cr)	XM	0
804 181	Calculus 2	Math	4	MATH 172	Calculus II (4 cr)	NS	0
806 143	College Physics 1	Nat Sci	3	PHYS 171	General Physics I (5 cr)	XL, NS	0
Fundamentals Group (all courses required)							
	Waived – Refer to Note 1			EGRT 101	Fund of Eng Technology (2 cr)		0
				EGRT 105	Fund of Drawing (3 cr)		3
660 104	DC 1		1	EGRT 130	Electrical Circuits I (4 cr)	XL, NS	0
660 105	DC 2		1				
660 107	AC 1		1				
660 108	AC 2		1				
660 106	DC 3		1	EGRT 131	Electrical Circuits II (4 cr)	XL, NS	0
660 109	AC 3		1				
662 112	DC/AC 3		3				
	Refer to Note 3			CSCI 216	C++ (4 cr)		4
660 110	Electronics 1		1	EGRT 232	Semiconductor Devices (3 cr)		0
660 111	Electronics 2		1				

660 112	Electronics 3		1				
664 102	Automation 3		1	EGRT 240	Logic & Control (3 cr)		0
664 103	Automation 4		1				
664 104	Automation 5		1				
				EGRT 246	Electric Power Systems (3 cr)		3
				EGRT 260	Automation Controllers (3 cr)		3
Advanced Study Group (all courses required)							
620 161	Power Electricity 1		1	EGRT 320	Motors & Drives (4 cr)		1
620 162	Power Electricity 2		1				
605 157	Power Electronics 1 + additional NWTC credit (605 158 Power Elec 2)		1				
				EGRT 325	Signals & Systems (3 cr)		3
				EGRT 333	Linear Circuits (3 cr)		3
				EGRT 342	Measure & Data Acq (3 cr)		3
				EGRT 350	Data Comm & Protocols (3 cr)		3
				EGRT 360	Project Management (3 cr)		3
605 169	Elec Design Integration		3	EGRT 390	Mechatronics (4 cr)		0
	Refer to Note 2			EGRT 400	Internship (1-3 cr) or		1
				EGRT 410	Capstone Project (3 cr)		
Advanced Elective (3 cr required)							
				EGR 282	Engineering Economics (3 cr)		3
				EGRT 348	E-Fields & Applications (3 cr)		
				EGRT 352	Communication Systems (3 cr)		
				EGRT 365	Special Topics (3 cr)		
Other NWTC Program Courses							
605 163	Micro 1		1	EGRT 142	Intro to Programming (3 cr)		
605 164	Micro 2		1		Refer to Note 3		
605 165	Micro 3		1				
605 166	Micro 4		1	EGRT 1	Elective – Refer to Note 4		
660 101	Digital 1		1	EGRT 1	Elective – Refer to Note 4		
660 102	Digital 2		1	EGRT 1	Elective – Refer to Note 4		
660 103	Digital 3		1	EGRT 1	Elective – Refer to Note 4		
660 113	Digital 4		1	EGRT 1	Elective – Refer to Note 4		
620 140	Machine Wiring & Safety		1	EGRT 1	Elective – Refer to Note 4		
605 170	Datacomm 1		1	EGRT 1	Elective – Refer to Note 4		
605 171	Datacomm 2		1	EGRT 1	Elective – Refer to Note 4		
605 172	Datacomm 3		1	EGRT 1	Elective – Refer to Note 4		
605 160	Linear Electronics 1		1	EGRT 1	Elective – Refer to Note 4		
605 161	Linear Electronics 2		1	EGRT 1	Elective – Refer to Note 4		
605 162	Linear Electronics 3		1	EGRT 1	Elective – Refer to Note 4		
620 170	Intro to Robotics		1	EGRT 1	Elective – Refer to Note 4		
662 124	Elect Circuit Analysis		3	EGRT 1	Elective – Refer to Note 4		
890 101	College 101		0		No degree or transfer credit		
804 195	College Algebra w/Apps	Math	3	MATH 104	College Algebra		
804 196	Trigonometry w/Apps	Math	3	MATH 106	Trigonometry		
Major Program Transfer Credits			57	Major Program Minimum – 70 credits			33
Total Transfer Credits			72	Minimum Additional Credits to B.S. Degree (to satisfy gen ed, major & 120 credit minimum)			57

Notes:

1. Transfer students with an Associate of Applied Science degree in Electrical Engineering Technology are not required to complete the EGRT 101 Fundamentals of Engineering Technology course for the Bachelor of Science in Electrical Engineering Technology degree. Total UW Oshkosh program and degree credit requirements must still be satisfied.

2. A UW Oshkosh faculty member will serve as the advisor for the Internship or Capstone Project requirement.
3. 605 163 Micro 1 AND 605 164 Micro 2 AND 605 165 Micro 3 are equivalent to EGRT 142 Introduction to Programming. Upon transfer to UW Oshkosh a curriculum modification will be written that enables EGRT 142 Introduction to Programming to satisfy the CSCI 216 C++ requirement.
4. Elective credits may be used to satisfy total credit requirements for the Electrical Engineering Technology major (70 credits minimum) and the B.S. degree (120 credits minimum).

This articulation agreement may be retrieved from

<https://uwosh.edu/engineeringtech/students/transfer/>

Questions regarding this agreement may be directed to:

Dennis Rioux, Coordinator

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