

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

WTCS Degree Type and Program: A.A.S. in Automation 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 Automation 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 Automation 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.

Appendix A
University of Wisconsin (UW) Oshkosh

WTCS Degree Type and Program: A.A.S. in Automation 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 Automation 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
801 196	Oral/Interpersonal Comm	Comm	3	COM 111	Intro to Public Speaking (3 cr)	COMM	0
809 198	Intro to Psychology	Soc Sci	3	PSCH 101	General Psychology (3 cr)	XS	0
					Social Science Course	XS	3
					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	Xfr Cr.	Course	Title	Gen Ed Area	Req Cr.
Support Courses (all courses required)							
				MATH 161 MATH 171	Technical Calc I (3 cr) or Calculus I (5 cr)	XM	3 or 5
				MATH 162 MATH 172	Technical Calc II (3 cr) or Calculus II (4 cr)	NS	3 or 4
806 143	College Physics 1	Nat Sci	3	PHYS 171	General Physics I (5 cr)	XL, NS	0
Fundamentals Group (all courses required)							
	Waived – see Note 2			EGRT 101	Fund of Eng Technology (2 cr)		0
606 116	CAD Intro		1	EGRT 105	Fund of Drawing (3 cr)		0
606 112	CAD ECD		1				
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				
				EGRT 131	Electrical Circuits II (4 cr)	XL, NS	4
				CSCI 216	C++ (4 cr)		4
				EGRT 232	Semiconductor Devices (3 cr)		3

664 102	Automation 3		1	EGRT 240	Logic & Control Devices (3 cr)		0
664 103	Automation 4		1				
664 104	Automation 5		1				
				EGRT 246	Electric Power Systems (3 cr)		3
664 105	Automation 6		1	EGRT 260	Automation Controllers (3 cr)		0
664 150	Automation 7		1				
664 151	Automation 8		1				
Advanced Study Group (all courses required)							
620 161	Power Electricity 1		1	EGRT 320	Motors & Drives (4 cr)		0
620 162	Power Electricity 2		1				
605 157	Power Electronics 1		1				
605 158	Power Electronics 2		1				
				EGRT 325	Signals & Systems (3 cr)		3
				EGRT 333	Linear Circuits (3 cr)		3
664 163	Control 4		1	EGRT 342	Measure, Control & Data (3 cr)		0
664 164	Control 5		1				
664 165	Control 6		1				
				EGRT 350	Data Comm & Protocols (3 cr)		3
				EGRT 360	Project Management (3 cr)		3
664 189	Auto Systems 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							
620 100	Fluids 1		1	EGRT 1	Elective – Refer to Note 3		
620 101	Fluids 2		1	EGRT 1	Elective – Refer to Note 3		
620 140	Machine Wiring & Safety		1	EGRT 1	Elective – Refer to Note 3		
664 100	Automation 1		1	EGRT 1	Elective – Refer to Note 3		
664 101	Automation 2		1	EGRT 1	Elective – Refer to Note 3		
660 101	Digital 1		1	EGRT 1	Elective – Refer to Note 3		
620 159	Power Electronics 3		1	EGRT 1	Elective – Refer to Note 3		
664 160	Control 1		1	EGRT 1	Elective – Refer to Note 3		
664 161	Control 2		1	EGRT 1	Elective – Refer to Note 3		
664 162	Control 3		1	EGRT 1	Elective – Refer to Note 3		
620 170	Intro to Robotics		1	EGRT 1	Elective – Refer to Note 3		
620 172	Robotic Vision Systems		1	EGRT 1	Elective – Refer to Note 3		
664 152	Automation 9		1	EGRT 1	Elective – Refer to Note 3		
664 153	Automation 10		1	EGRT 1	Elective – Refer to Note 3		
664 170	Safety Devices & Apps		1	EGRT 1	Elective – Refer to Note 3		
890 101	College 101		0		No degree or elective 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			48	Major Program Minimum – 70 credits			36
Total Transfer Credits			63	Minimum Additional Credits to B.S. Degree (to satisfy gen ed, major & 120 credit minimum)			60

Notes:

1. Transfer students with an Associate of Applied Science degree in Automation 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. 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
University of Wisconsin Oshkosh
Department of Engineering Technology
rioux@uwosh.edu 920 424 4429