

**An Articulation Agreement Between:
University of Wisconsin (UW) Oshkosh
Northcentral Technical College (NTC)**

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

Effective Date: July 1, 2019

New Agreement

Next Review Date: May 1, 2021

Revised Agreement – original agreement signed 15 August 2017
– first revision signed 15 August 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 Wisconsin. Students enrolling at any higher educational institution in 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 Electromechanical Technology offered at NTC 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
- Northcentral Technical College: The Higher Learning Commission

Here follows the curriculum agreed upon in this Articulation between UW Oshkosh and Northcentral 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 Northcentral Technical College students who successfully complete the A.A.S. degree in Electromechanical 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 Northcentral 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 Northcentral 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

Northcentral Technical College

 Colleen McDermott Date
 Dean of College of Letters & Science

 Darren Ackley Date
 Vice President for Learning

 John Koker Date
 Provost & Vice Chancellor

 Jeannie Worden Date
 Executive Vice President of Student Services
 & Regional Campuses

 Andrew Leavitt Date
 Chancellor

 Lori Weyers Date
 President

Appendix A
University of Wisconsin (UW) Oshkosh

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

Northcentral Technical College A.A.S. in Electromechanical 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.
801 195	Written Communication	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
809 196	Intro to Sociology	Soc Sci	3	SOC 101	Intro Sociology (3 cr)	XS	0
809 198	Intro to Psychology	Soc Sci	3	PSCH 101	General 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	CONN	3
General Education Transfer Credits			12	General Education Total – 55-58 credits (includes gen ed credits from Table 2)			21

*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							
<i>Support Group (all courses required)</i>							
Course	Course Title	Gen Ed Area	Xfr Cr.	Course	Title	Gen Ed Area	Req Cr.
				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
806 154	General Physics 1	Nat Sci	4	PHYS 171	General Physics I (5 cr)	XL, NS	0
<i>Fundamentals Group (all courses required)</i>							
	Waived – Refer to Note 1			EGRT 101	Fund of Eng Technology (2 cr)		0
606 133	Solidworks 1		1	EGRT 105	Fund of Drawing (3 cr)		0
620 171	AutoCAD for Techs		1				
660 123	Industrial Elec Tech 1		1	EGRT 130	Electrical Circuits I (4 cr)	XL, NS	0
660 124	Industrial Elec Tech 2		1				
660 125	Industrial Elec Tech 3		1				
660 126	Industrial Elec Tech 4		1				
				EGRT 131	Electrical Circuits II (4 cr)	XL, NS	4
				CSCI 216	C++ (4 cr)		4
				EGRT 232	Semiconductor Devices (3 cr)		3
620 164	PLC 1		1	EGRT 240	Logic & Control Devices (3 cr)		0
620 165	PLC 2		1				

620 166	PLC 3		1				
				EGRT 246	Electric Power Systems (3 cr)		3
620 167	PLC 4		1	EGRT 260	Automation Controllers (3 cr)		0
620 168	PLC 5		1				
620 169	PLC 6		1				
Advanced Study Group (all courses required)							
620 159	Industrial Motors 1		1	EGRT 320	Motors & Drives (4 cr)		0
620 160	Industrial Motors 2		1				
620 161	Servo Systems 1		1				
620 162	Servo Systems 2		1				
				EGRT 325	Signals & Systems (3 cr)		3
				EGRT 333	Linear Circuits (3 cr)		3
				EGRT 342	Measure, Control & Data (3 cr)		3
				EGRT 350	Data Comm & Protocols (3 cr)		3
				EGRT 360	Eng Project Management (3 cr)		3
620 145	Electromech Projects		3	EGRT 390	Mechatronics (4 cr)		0
	Refer to Note 2			EGRT 400 EGRT 410	Internship (1-3 cr) or Capstone Project (3 cr)		1
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 NTC Program Courses							
612 120	Fluid Power Systems 1		1	EGRT 118	Fluid Control (2 cr)		
612 121	Fluid Power Systems 2		1				
806 144	College Physics 2	Nat Sci	3	PHYS 172	General Physics II		
620 172	Workplace Safety		1	EGRT 1	Elective – Refer to Note 3		
660 118	Electrical Fabrication		1	EGRT 1	Elective – Refer to Note 3		
442 101	Intro to Welding		2	EGRT 1	Elective – Refer to Note 3		
420 101	Intro to Machine Shop		2	EGRT 1	Elective – Refer to Note 3		
620 163	Servo Systems 3		1	EGRT 1	Elective – Refer to Note 3		
660 127	Industrial Elec Tech 5		1	EGRT 1	Elective – Refer to Note 3		
660 128	Industrial Elec Tech 6		1	EGRT 1	Elective – Refer to Note 3		
620 151	Machine Control 1		1	EGRT 1	Elective – Refer to Note 3		
620 152	Machine Control 2		1	EGRT 1	Elective – Refer to Note 3		
620 153	Machine Control 3		1	EGRT 1	Elective – Refer to Note 3		
620 154	Robot Applications 1		1	EGRT 1	Elective – Refer to Note 3		
620 155	Robot Applications 2		1	EGRT 1	Elective – Refer to Note 3		
620 157	Mechanical Systems 1		1	EGRT 1	Elective – Refer to Note 3		
620 158	Mechanical Systems 2		1	EGRT 1	Elective – Refer to Note 3		
660 121	Intro to Microcontrollers		1	EGRT 1	Elective – Refer to Note 3		
804 195	College Algebra w/Apps	Math	3	MATH 104	College Algebra		
Major Program Transfer Credits			48	Major Program Minimum – 70 credits			39
Total Transfer Credits			60	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 Electromechanical 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

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