

**An Articulation Agreement Between:  
University of Wisconsin (UW) Oshkosh  
Lakeshore Technical College (LTC)**

**WTCS Degree Type and Program:** A.A.S. in Electro-Mechanical Automation Technology  
**UW Degree Type and Major:** B.S. with a major in Electrical Engineering Technology

**Effective Date:** July 1, 2017

New Agreement

**Next Review Date:** May 1, 2021

Revised Agreement – original agreement signed 3 Feb 2015  
– first revision signed

**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 Electro-Mechanical Automation Technology offered at LTC 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
- Lakeshore Technical College: The Higher Learning Commission

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

**Admission Requirements/Conditions Specific to this Agreement:**

Admission requirements are identical to those required for general admission to UW Oshkosh.

**Articulation Transfer Agreement Terms:**

The terms of this agreement apply to Lakeshore Technical College students who successfully complete the A.A.S. degree in Electro-Mechanical Automation 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. The terms of this agreement apply only to the B.S. degree with a major in Electrical Engineering Technology — students who change majors will have their transfer credits reevaluated as prescribed by their new major.

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 Lakeshore 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.

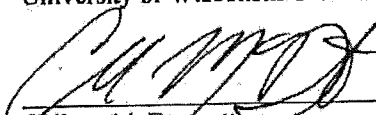
*Format satisfies UW System Guidelines for Articulation Agreements outlined in the UW System Administrative Policy 140*

- 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 Lakeshore 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

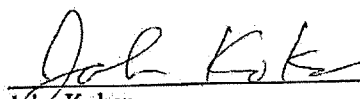
  
 Colleen McDermott  
 Dean of College of Letters & Science

9/23/19  
 Date

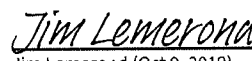
Lakeshore Technical College

  
 Sheila Schetter  
 Dean, Adv Manufacturing, Ag, Auto and Eng.

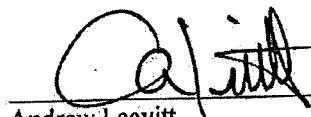
10/9/19  
 Date

  
 John Koker  
 Provost & Vice Chancellor


9/24/19  
 Date

  
 Jim Lemerond (Oct 9, 2019)  
 James Lemerond  
 Vice-President of Instruction

10/09/19  
 Date

  
 Andrew Leavitt  
 Chancellor

9/25/19  
 Date

  
 Paul Carlsen (Oct 9, 2019)  
 Dr. Paul Carlsen  
 President

10/09/19  
 Date

BR

- 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 Lakeshore 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


  
 \_\_\_\_\_  
 Colleen McDermott  
 Dean of College of Letters & Science

9/23/19  
Date

Lakeshore Technical College

  
 \_\_\_\_\_  
 Sheila Schetter  
 Dean, Adv Manufacturing, Ag, Auto and Eng.

10/8/19  
Date

  
 \_\_\_\_\_  
 John Koker  
 Provost & Vice Chancellor

9/24/19  
Date

\_\_\_\_\_  
 James Lemerond  
 Vice-President of Instruction

Date

  
 \_\_\_\_\_  
 Andrew Leavitt  
 Chancellor

9/25/19  
Date

\_\_\_\_\_  
 Dr. Paul Carlsen  
 President

Date

**Appendix A**  
**University of Wisconsin (UW) Oshkosh**

**WTCS Degree Type and Program:** A.A.S. in Electro-Mechanical Automation 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:**

Lakeshore Technical College A.A.S. in Electro-Mechanical Automation Technology Transferable Courses/Credits				UW Oshkosh B.S. with a major in Electrical Engineering Technology All Program Course Requirements			
<b>Table 1: General Education / Breadth Requirements*</b>							
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
809 195	Intro to Sociology	Soc Sci	3	SOC 101	Intro to Sociology (3 cr)	XS, ES	0
809 198	Intro to Psychology	Soc Sci	3	PSCH 101	General Psychology (3 cr)	XS	0
					History Course (3 cr)	XS	3
					Social Science Course (3 cr)	XS	3
					Global Citizen Course (3 cr)	XC, GC	3
					English Literature (3 cr)	XC	3
					Humanities Course (3 cr)	XC	3
					Humanities Course (3 cr)	XC	3
				ENGL 312	Advanced Composition (3 cr)	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/>).

<b>Table 2: Major Program Requirements</b>							
Course	Title	Gen Ed Area	Xfr Cr.	Course	Title	Gen Ed Area	Req Cr.
<b>Support Group (all courses required)</b>							
				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 I	Nat Sci	4	PHYS 171	General Physics I (5 cr)	XL, NS	0
<b>Fundamentals Group (all courses required)</b>							
	Waived – see Note 1			EGRT 101	Fund of Eng Technology (2 cr)		0
				EGRT 105	Fund of Drawing (3 cr)		3
660 105 660 110	DC Fundamentals AC Fundamentals		2 2	EGRT 130	Electrical Circuits I (4 cr)	XL, NS	0
				EGRT 131	Electrical Circuits II (4 cr)	XL, NS	4
				CSCI 216	C++ (4 cr)		4
				EGRT 232	Semiconductor Devices (3 cr)		3
620 138	Program Controllers		3	EGRT 240	Logic & Control (3 cr)		0
				EGRT 246	Electric Power Systems (3 cr)		3
620 140 620 194	Programmable Ctrl Adv Touchscreen Apps		2 2	EGRT 260	Automation Controllers (3 cr)		0

<i>Advanced Study Group (all courses required)</i>							
620 141	Industrial Ctrls & Motors		3	EGRT 320	Motors & Drives (4 cr)		0
620 192	Frequency Drives		1				
				EGRT 325	Signals & Systems (3 cr)		3
				EGRT 333	Linear Circuits (3 cr)		3
620 197	Analog Controls		2	EGRT 342	Measure & Data Acq (3 cr)		0
620 147	Electronic Dev & Trans		2				
				EGRT 350	Data Comm & Protocols (3 cr)		3
				EGRT 360	Project Management (3 cr)		3
620 196	Industrial Applications		4	EGRT 390	Mechatronics (4 cr)		0
	See Note 2			EGRT 400	Internship (1-3 cr) or		1
				EGRT 410	Capstone Project (3 cr)		
<i>Advanced Elective (3 cr required)</i>							
				EGR 282	Engineering Economics (3 cr)		3
				EGRT 348	Electromagnetic Fields & Applications (3 cr)		
				EGRT 352	Communication Systems (3 cr)		
				EGRT 365	Special Topics (3 cr)		
<i>Other LTC Program Courses</i>							
462 107	Tools & Measurement		1	EGRT 1	Elective – Refer to Note 3		
620 103	Fluid Power 1		2	EGRT 118	Fluid Control		
620 104	Fluid Power 2		3	EGRT 1	Elective – Refer to Note 3		
620 135	Elec Robot Maintenance		1	EGRT 1	Elective – Refer to Note 3		
620 169	Mech Robot Maintenance		1	EGRT 1	Elective – Refer to Note 3		
620 122	Industrial Wiring		2	EGRT 1	Elective – Refer to Note 3		
620 130	Mechanical Drive Sys		3	EGRT 1	Elective – Refer to Note 3		
620 168	Robotics Intro		2	EGRT 1	Elective – Refer to Note 3		
620 164	Electromech Systems		2	EGRT 1	Elective – Refer to Note 3		
620 193	NEC Codes		1	EGRT 1	Elective – Refer to Note 3		
620 195	Industrial Troubleshoot		1	EGRT 1	Elective – Refer to Note 3		
620 198	Industrial Networks		2	EGRT 1	Elective – Refer to Note 3		
620 171	Robotics Advanced		2	EGRT 1	Elective – Refer to Note 3		
620 199	Integration of Manuf		2	EGRT 1	Elective – Refer to Note 3		
804 113	College Techn Math 1A	Math	0		No degree or transfer credit		
<b>Major Program Transfer Credits</b>			<b>52</b>	<b>Major Program Minimum – 70 credits</b>			<b>39</b>
<b>Total Transfer Credits</b>			<b>64</b>	<b>Minimum Additional Credits to B.S. Degree (to satisfy gen ed, major &amp; 120 credit minimum)</b>			<b>60</b>

**Notes:**

1. Transfer students with an Associate of Applied Science degree in Electro-Mechanical Automation 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