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

WTCS Degree Type and Program:	**A.A.S. in Manufacturing Engineering Technology**
UW Degree Type and Major:	**B.S. with a major in Mechanical Engineering Technology**
Effective Date: July 1, 2019	**Next Review Date:** May 1, 2021
☐ New Agreement	☒ Revised Agreement – original agreement 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 Mechanical 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 Manufacturing Engineering Technology offered at NWTC and the B.S. degree in Mechanical 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 Manufacturing Engineering Technology; meet the admission requirements set forth below for the UW Oshkosh; and enroll in the B.S. degree with a major in Mechanical 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 Mechanical 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 Mechanical 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

June 20, 2019

Colleen McDermott — Date
Dean of College of Letters & Science

6/27/19

John Koker — Date
Provost & Vice Chancellor

7/2/19

Andrew Leavitt — Date
Chancellor

Northeast Wisconsin Technical College

Pamela Mazur — Date
Associate Dean of Trades & Engineering Technologies

Kathryn Rogalske — Date
Vice President for Learning

H Jeffrey Rafn — Date
President

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

Appendix A
University of Wisconsin (UW) Oshkosh

WTCS Degree Type and Program: **A.A.S. in Manufacturing Engineering Technology**
UW Degree Type and Major: **B.S. with a major in Mechanical 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 Manufacturing Engineering Technology Transferable Courses/Credits				**UW Oshkosh B.S. with a major in Mechanical 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
					History Course (3 cr)	XS	3
					Ethnic Studies Course (3 cr)	XS, ES	3
					Social Science Course (3 cr)	XS	3
					Humanities Course (3 cr)	XC	3
					Humanities Course (3 cr)	XC	3
					English Literature (3 cr)	XC, HU	3
					Global Citizen Course (3 cr)	XC, GC	3
				ENGL 312	Advanced Composition	CONN	3
809 172	Intro to Diversity Studies	Soc Sci	3	SOC 1	Sociology Elective (3 cr)	elective	
General Education Transfer Credits			**12**	**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 Group (all courses required)							
804 198	Calculus 1	Math	4	MATH 171	Calculus I (4 cr)	XM	0
804 181	Calculus 2	Math	4	MATH 172	Calculus II (4 cr)	NS	0
				PHYS 171 PHYS 191	General Physics I **or** General Physics I (5 cr)	NS	5
Fundamentals Group (all courses required)							
	Waived – Refer to Note 1			EGRT 101	Fund of Eng Technology (2 cr)		0
606 116 606 211	CAD Intro Mech Auto CAD Fund		1 2	EGRT 105	Fund of Drawing (3 cr)		0
623 175	Casting & Joining Proc		3	EGRT 116	Basic Manuf Processes (3 cr)		0
				EGRT 118	Fluid Control (3 cr)		3
				EGRT 130	Electrical Circuits I (3 cr)	XL, NS	4
606 210	SW Fundamentals		3	EGRT 207	Parametric Modeling (3 cr)		0
				EGRT 221	Machine Components (3 cr)		3
623 117	Statics		3	EGR 201	Engineering Statics (3 cr)		0
				EGR 202	Engineering Dynamics (3 cr)		3
				EGR 203	Mechanics of Materials (4 cr)		4
Advanced Study Group (all courses required)							

				EGRT 320	Motors & Drives (4 cr)	XL, NS	4
				EGRT 322	Design Problems (3 cr)		3
				EGRT 330	Thermodynamics (3 cr)		3
				EGRT 335	Heat Transfer (3 cr)		3
				EGRT 342	Measure & Data Acq (3 cr)		3
				EGRT 360	Project Management (3 cr)		3
				EGRT 390	Mechatronics (4 cr)		4
	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 308	Finite Element Analysis (3 cr)		
				EGRT 318	Fluid Mechanics (3 cr)		
				EGRT 365	Special Topics (3 cr)		
Other NWTC Program Courses							
806 135	College Chemistry		5	CHEM 105	General Chemistry		
664 102 664 103 664 104	Automation 3 Automation 4 Automation 5		1 1 1	EGRT 240	Logic & Control Devices (3 cr)		
664 105	Automation 6		1	EGRT 1	Elective – Refer to Note 3		
623 118	Dynamics		3	EGRT 1	Elective – Refer to Note 3		
623 170	Engineering Materials		3	EGRT 1	Elective – Refer to Note 3		
620 170	Intro to Robotics		1	EGRT 1	Elective – Refer to Note 3		
623 104	Continuous Improvement		1	EGRT 1	Elective – Refer to Note 3		
623 171	Plastic Materials Proc		3	EGRT 1	Elective – Refer to Note 3		
623 166	Manuf Engr Internship		1	EGRT 1	Elective – Refer to Note 3		
420 170	Material Remove/Form		3	EGRT 1	Elective – Refer to Note 3		
420 168	Computer Aided Manuf		3	EGRT 1	Elective – Refer to Note 3		
623 167	Engineering Economy		2	EGRT 1	Elective – Refer to Note 3		
182 112	Lean Manufacturing		1	EGRT 1	Elective – Refer to Note 3		
182 111	Lean Operations		1	EGRT 1	Elective – Refer to Note 3		
890 101	College 101		0		No degree or transfer credit		
804 197	College Algebra & Trig	Math	5	MATH 108	Pre-Calculus		
Major Program Transfer Credits			**56**	**Major Program Minimum – 72 credits**			**48**
Total Transfer Credits			**68**	**Minimum Additional Credits to B.S. Degree (to satisfy gen ed, major & 120 credit minimum)**			**72**

Notes:

1. Transfer students with an Associate of Applied Science degree in Manufacturing Engineering Technology are not required to complete the EGRT 101 Fundamentals of Engineering Technology course for the Bachelor of Science in Mechanical 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 Mechanical Engineering Technology major (72 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