

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

WTCS Degree Type and Program: A.A.S. in Mechanical Design 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 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 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 Mechanical Design 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 Mechanical Design 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.

Appendix A
University of Wisconsin (UW) Oshkosh

WTCS Degree Type and Program: A.A.S. in Mechanical Design Technology
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Table accompanies new agreement Revised table for existing agreement

Transfer Course/Credit Articulation Table:

Northeast Wisconsin Technical College A.A.S. in Mechanical Design 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	Intro Psychology (3 cr)	XS	0
					Social Science Course (3 cr)	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	
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)							
				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
Fundamentals Group (all courses required)							
606 111	Mech Design Explore		1	EGRT 101	Fund of Eng Technology (2 cr)		0
606 116	CAD Intro		1	EGRT 105	Fund of Drawing (3 cr)		0
606 211	Mech Auto CAD Fund		2				
614 204	Additive Manufacturing		1	EGRT 116	Basic Manuf Processes (3 cr)		0
442 153	Prototype Metal Fab		2				
620 100	Fluids 1		1	EGRT 118	Fluid Control (3 cr)		0
620 101	Fluids 2		1				
				EGRT 130	Electrical Circuits I (3 cr)	XL, NS	4
606 210	Solidworks Fundamentals		3	EGRT 207	Parametric Modeling (3 cr)		0
606 143	Mechanisms		3	EGRT 221	Machine Components (3 cr)		0
	Refer to Note 1			EGR 201	Engineering Statics (3 cr)		3

				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)	NS	4
606 141	Design Problems		3	EGRT 322	Design Problems (3 cr)		0
				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	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 308	Finite Element Analysis (3 cr)		
				EGRT 318	Fluid Mechanics (3 cr)		
				EGRT 365	Special Topics (3 cr)		
Other NWTC Program Courses							
606 135	Machine Members		5	EGRT 1	Elective credit eligible for conversion to equivalent courses – Refer to Note 1		
606 119	Technical Sketching		2	EGRT 1	Elective – Refer to Note 3		
606 168	Large Model Manage		1	EGRT 1	Elective – Refer to Note 3		
606 212	CAD-ECD		1	EGRT 1	Elective – Refer to Note 3		
606 213	CAD Auxiliary		2	EGRT 1	Elective – Refer to Note 3		
606 214	Fab & Assembly Design		4	EGRT 1	Elective – Refer to Note 3		
606 215	Solidworks Simulation		2	EGRT 1	Elective – Refer to Note 3		
606 216	Solidworks Advanced		2	EGRT 1	Elective – Refer to Note 3		
614 136	3D Modeling w/Inventor		1	EGRT 1	Elective – Refer to Note 3		
620 165	Fluids 3		1	EGRT 1	Elective – Refer to Note 3		
664 100	Automation 1		1	EGRT 1	Elective – Refer to Note 3		
623 170	Engineering Materials		3	EGRT 1	Elective – Refer to Note 3		
420 173	Mechanical Design CNC		2	EGRT 1	Elective – Refer to Note 3		
890 101	College 101		0		No degree or transfer credit		
103 131	Micro: Excel		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			55	Major Program Minimum – 72 credits			44
Total Transfer Credits			67	Minimum Additional Credits to B.S. Degree (to satisfy gen ed, major & 120 credit minimum)			68

Notes:

1. 606 135 Machine Members-Strength AND {MATH 161 Technical Calculus I (3 cr) OR MATH 171 Calculus I (5 cr)} AND EGRT 222 Engineering Mechanics for Transfers (1 cr) will satisfy EGR 201 Statics for Engineering (3 cr) for the major in Mechanical Engineering Technology only. See <https://uwosh.edu/engineeringtech/mechanical/courses/> for course descriptions and prerequisites.
2. A UW Oshkosh faculty member will serve as the advisor for the Internship or Capstone Project requirement.
4. 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:

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