Appendix A
University of Wisconsin (UW) Oshkosh

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

Western Technical College A.A.S. in Automation Systems 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
809 195	Economics	Soc Sci	3	ECON 106	General Economics (3 cr)	XS	0
809 198	Intro to Psychology	Soc Sci	3	PSCH 101	General Psychology	XS	0
					History Course (3 cr)	XS	3
					Ethnic Studies Course (3 cr)	XS, ES	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/).*

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)							
620 130	Intro Electromech Tech		2	EGRT 101	Fund of Eng Technology (2 cr)		0
606 163	AutoCAD Level 1		2	EGRT 105	Fund of Drawing (3 cr)		0
660 117 660 118	DC Circuit Analysis AC Circuit Analysis		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
660 123	Industrial Elec Devices		2	EGRT 232	Semiconductor Devices (3 cr)		0
620 153 620 158	Basic PLC Programming PLC Applications		2 2	EGRT 240	Logic & Control Devices (3 cr)		0
				EGRT 246	Electric Power Systems (3 cr)		3
620 139 620 164	Adv PLC Programming Automation Systems Int		2 2	EGRT 260	Automation Controllers (3 cr)		0

Advanced Study Group (all courses required)							
620 135 620 120	Basic Industrial Controls Motors & Drives		2 2	EGRT 320	Motors & Drives (4 cr)		0
				EGRT 325	Signals & Systems (3 cr)		3
				EGRT 333	Linear Circuits (3 cr)		3
620 159	Process Control Systems		3	EGRT 342	Measure, Control & Data (3 cr)		0
				EGRT 350	Data Comm & Protocols (3 cr)		3
				EGRT 360	Eng Project Management (3 cr)		3
620 154	Integration Capstone		4	EGRT 390	Mechatronics (4 cr)		0
	Refer to Note 1			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 WTC Program Courses							
620 165	Robot Maintenance		2	EGRT 1	Elective – Refer to Note 2		
664 100	Basic Robot Program		2	EGRT 1	Elective – Refer to Note 2		
664 101	HMI/SCADA		2	EGRT 1	Elective – Refer to Note 2		
664 103	Safety Circuits		2	EGRT 1	Elective – Refer to Note 2		
664 104	Rapid Prototyping		2	EGRT 1	Elective – Refer to Note 2		
664 105	Adv Robot Program		2	EGRT 1	Elective – Refer to Note 2		
664 106	Mechatronics Intern		1	EGRT 1	Elective – Refer to Note 2		
620 141	Industrial Networking		2	EGRT 1	Elective – Refer to Note 2		
620 114	Siemens Control Systems		2	EGRT 1	Elective – Refer to Note 2		
804 113	College Tech Math 1A	Math	0		No degree or transfer credit		
Major Program Transfer Credits			**50**	**Major Program Minimum – 70 credits**			**33**
Total Transfer Credits			**62**	**Minimum Additional Credits to B.S. Degree** **(to satisfy gen ed, major & 120 credit minimum)**			**58**

Notes:

1. A UW Oshkosh faculty member will serve as the advisor for the Internship or Capstone Project requirement.
2. 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:

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