

**ARTICULATION AGREEMENT
BETWEEN
UNIVERSITY OF WISCONSIN-STOUT
AND
Northcentral Technical College**

This Agreement is entered into between **Northcentral Technical College** (hereinafter sending institution), and the **University of Wisconsin-Stout, Menomonie, WI** (hereinafter receiving institution). This Agreement and any amendments and supplements, shall be interpreted pursuant to the guidelines set forth in the University of Wisconsin System Academic Information Series (ACIS) policy 6.2 Guidelines for Articulation Agreements between UW System Institutions and WTCS Districts as well as policy 6.0 Undergraduate Transfer Policy. Both institutions agree to maintain accreditation by the Higher Learning Commission and any other accreditation currently in existence pertaining to degree programs articulated via the transfer agreement.

The sending institution has established an **Electromechanical Technology** program (hereinafter sending program), and the receiving institution has established **Engineering Technology-Electrical** (hereinafter receiving program), and will facilitate credit transfer and provide a smooth transition from one related program to another. It is mutually agreed:

I. Admission and Graduation Requirements

- A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
- B. Students must fulfill the graduation requirements at both institutions to include:
 - 1. General Education, Racial & Ethnic Studies and Global Perspective requirements;
 - 2. Students at UW-Stout will be required to complete a minimum of 32 credits in residence for a bachelor's degree at UW-Stout.
- C. Students must complete the entire sending program and meet the receiving institution's admission requirements for the agreement to apply.
- D. Graduation requirement is a 2.5 cumulative grade point average.

II. Transfer of Credits

- A. The receiving institution will apply 42 of the 68 credits from the sending program. A total of 78-79 credits remain to complete the receiving program.
- B. Courses will transfer as described in the attached Program Articulation Table.
- C. Courses are specifically identified in the attached Program Articulation Table requiring grades of "C" or higher that may be used towards the degree program. Grades received less than a "C" must be repeated if student is admitted into the program based on overall admission requirements.

- D. Elective courses taken or substituted at the sending institution and sending program not listed in this agreement will be reviewed on a case-by-case basis and determined how they may apply to the degree at the receiving institution.

III. Implementation and Review

- A. The Provost, Dean, Program Director or designees of the parties to this agreement will implement the terms of this agreement, including identifying and incorporating any changes into subsequent agreements, assuring compliance with system policy, procedure and guidelines, and conducting a periodic review of this agreement.
- B. The University of Wisconsin-Stout and Northcentral Technical College Technical College will provide academic advising to Northcentral Technical College learners inquiring about UW-Stout's programs. Learners will be connected with a UW-Stout adviser prior to transfer. UW-Stout and Northcentral Technical College will share materials, catalogs, and other information to facilitate their understanding of requirements and programs. Northcentral Technical College will assist UW-Stout in arranging recruitment events on its campuses.
- C. Any marketing of this agreement will be subject to the prior approval of both parties and will adhere to each institution's standards for the use of its name and logo. Each institution will assume responsibility for appropriate marketing to reach its student population. Each institution may provide a link to this agreement and/or the other institution on its website, with notice to the other party.
- D. Both parties agree that failure to maintain regional accreditation will be grounds for termination of the agreement. Failure to maintain accreditation required by the specific academic program(s) referenced in this agreement will be grounds for exclusion of that program from the agreement.
- E. This Articulation Agreement is effective on 01/09/2017 and shall remain in effect until the end date of 01/09/2022 or for five years, whichever occurs first, unless terminated or amended by either party with 90 days prior written notice.
- F. The college and university shall work with students to resolve the transfer of courses should changes to either program occur while the agreement is in effect.
- G. This Articulation Agreement will be reviewed by both parties beginning 07/09/2021 (within six months of the end date).
- H. When a student enrolls at the receiving institution following this agreement, the receiving institution will encode any course waivers and substitutions.
- I. This articulation agreement applies only to the receiving program in effect Fall 2016 until revised.

PROGRAM ARTICULATION TABLE

	Northcentral Technical College	University of Wisconsin-Stout
Program name	Electromechanical Technology	Engineering Technology – Electrical
Award Type (e.g., AAS)	AAS	BS
Credit Length	68	120-121
Describe program admission requirements (if any)		Minimum Cumulative 2.0 GPA required

SECTION A - General Education

Northcentral Technical College			University of Wisconsin-Stout				
Course Prefix & Number	Course Name	Credits	Course Prefix & Number	Course Name	GE Area	Credits Applied	Equiv Sub Wav
801-195 Or 801-136	Written Communications English Composition 1	3	ENGL 101	Composition 1	COMSK	3	Equiv
801-196	Oral/Interpersonal Communication	3	COMST 100	Fundamentals of Speech	COMSK	3	Equiv
*804-195 Or 804-118	College Algebra w/Apps Intermediate Algebra w/Apps	3	MATH 120 MATH 90	Intro to College Math I Intermediate Algebra	N/A	~3	
806-143 And 806-144	College Physics 1 College Physics 2	3 3	PHYS 211 PHYS 212 PHYS GXX	Introduction to Physics Introduction to Physics Lab Physics Electives	N/A	~3 ~1 ~2	
^809-195 Or 809-196	Economics Intro to Sociology	3	ECON 201 SOC 110	General Economics Introductory Sociology	SBSC N/A	3	Equiv
809-198 Or 809-199	Intro to Psychology Psychology of Human Relations	3	PSYC 110 PSYC GXX	General Psychology Psychology Electives	SBSC	3	Equiv
General Education Total		21	Section A Subtotal			12	

Special Notes, if any:

*Calculus is required for UW-Stout's program. The math path at UW-Stout is MATH 10>90>120>121>153 Calculus. If a student is able to successfully complete course 804-195 at NTC it gets them closer to their required math course at UW-Stout.

^ECON 201 General Economics is a required course in the UW-Stout program.

~Credits to not apply to UW-Stout's program.

SECTION B - Major, Concentration, Emphasis, Electives, or Other

			Concentration Core Requirements				
612-120 612-121	Fluid Pwr Systm 1: Fundamentals AND Fluid Pwr Systm 2: Fund of Pneumatics	1 1	ETECH 260	Intro to Fluid Power		2	Equiv
660-112 660-113 660-118	DC 1: Electrical Circuit Fundamentals AND DC 2: Basic Circuit Analysis AND Electrical Fabrication	1 1 1	ET 204	Electricity & Electronic Fundamentals		3	Equiv
605-170 605-171 660-121	Digital Elect 1: Logic Fundamentals AND Digital Elect 2: Seq Logic & Op Amp AND Intro to Microcontrollers	1 1 1	ET 271	Digital Logic and Switching		3	Equiv
605-172 605-173 620-163	Electronic Devices & Circuits 1 AND Electronic Devices & Circuits 2 AND Servo Sys 3: Auto Pos Cntrl Sys Interfacing	1 1 1	ET 272	Solid State Electronics		3	Equiv
620-159 620-160	Ind Motors 1: Elect Motors & Generators AND Ind Motors 2: DC/AC Var Spd Motor Dr	1 1	ET 340	Motors and Generators		2	Equiv
620-164 620-165 620-166	PLC 1: PLC Ladder Logic&BIT Based Inst AND PLC 2: Timers, Counters & Intro to HMI AND PLC 3: Data & Word Based Instructions	1 1 1	ET 341 ET XXX	Electrical & Mechanical Interface Devices Engineering Technology Elective		2 *1	Equiv
620-170 620-171 623-179 620-172	Intro to Solidworks CADD AND AutoCAD for Technicians AND Interpreting Engineering Drawings AND Industry Workplace Safety	1 1 2 1	ETECH 112 RC 381	Engineering Graphics Fundamentals Prin of Occupational Risk Control/Safety		3 2	Equiv
660-116 660-117 660-122	AC 1: Circuit Fundamentals AND AC 2: Circuit Analysis AND Electrical Systems	1 1 1	ET 260	Electrical Circuits		3	Equiv

			Concentration Selectives (7 credits required)			
620-154	Robot App 1: Fund of Robotic Cntrl AND	1	ETECH 405	Industrial Robotics	3	Sub
620-155	Robot App 2: Robtc Systm Comp&Sftwr AND	1				
620-156	Robot App 3: Auto Robot Cntrl Systm Intrfc	1				
620-167	PLC 4: Industrial Networking	1	ET XXX	Engineering Technology Elective	1	Sub
620-145	Electromechanical Projects	3	ET XXX	Engineering Technology Elective	3	Sub
103-225	Excel 2013 Level 1	1	Not applicable to UW-Stout's program requirements. See Section E for credit awarded (if applicable).			
103-226	Word 2013 Level 1	1				
420-101	Intro to Machine Shop	2				
422-101	Intro to Welding	2				
612-122	Fluid Pwr Syst 3: Dsgn & Maintenance	1				
620-151	Machine Cntrl 1: Ladder Logic Fund	1				
620-152	Machine Cntrl 2: Motor & Actuator Cntrl	1				
620-153	Machine Cntrl 3: Sensors & Machine Safety	1				
620-157	Mech Systems 1: Basic Machine Comp	1				
620-158	Mech Systems 2: Power Trans Systems	1				
620-161	Servo Sys 1: Fund of Position Cntrl	1				
620-162	Servo Sys 2: Components & Systems	1				
620-168	PLC 5: Adv Instructions and Programming	1				
620-169	PLC 6: PLC & Automation Integration	1				
Major, Emphasis, Unrestricted Electives Total		47	Total College Credits Applied (sum of sections A and B)		42	

Special Notes, if any:

*Credits do not apply to UW-Stout's program at this time.

SECTION C - Remaining University of Wisconsin-Stout Requirements			
	General Education		
	ENGL 102	Composition 2	3
	MATH 153	Calculus I	4
	PHYS 241	College Physics I	5
	PHYS 242	College Physics II	5
		Arts & Humanities	6
		Contemporary Issues	3
		Social Responsibility & Ethical Reasoning	3
	Professional Studies		
	BUACT 200/201/206	Accounting	2-3
	BUMKG 330	Principles of Marketing	3
	ENGL 320	Professional & Technical Communications	3
	ET 100	Intro to Engineering Technology	1
	INMGT 200	Production & Operations Management	3
	INMGT 400	Organizational Leadership	3
	ETECH 150	Introduction to Engineering Materials	3
	ETECH 205	Design for Industry	3
	STAT 130	Elementary Statistics	2
	Electrical - Concentration		
	CHEM 135	College Chemistry	5
	CS 144	Computer Science I	4
	CS 145	Computer Science II	4
	ET 274	Fund of Microprocessors & Microcomputer Systms	3
	ET 290	Mechanics of Solids I	3
	ET 349	Cooperative Education Experience	1
	ET 382	Electronic Communications	3
	ET 405	Capstone I: Design Practicum	3
	ET 449	Cooperative Education Experience	1
	Total Remaining UW-Stout Credits		78-79

SECTION D - Summary of Total Program Credits

Northcentral Technical College Credits		UW-Stout Requirements	
General Education	21		
Major, Concentration Emphasis, Electives or Other	47		
Total College Credits	68	Total College Credits Applied	42
		Remaining credit to be taken at UW-Stout	78-79
		Total Program Credits	120-121

SECTION E – Northcentral Technical College courses transferable, but not applicable to University of Wisconsin-Stout program requirements AND Northcentral Technical College courses not transferable.

103-225	Excel 2013 Level 1	1		Not Transferable	
103-226	Word 2013 Level 1	1		Not Transferable	
420-101	Intro to Machine Shop	2	ET XXX	Engineering Technology Electives	2
422-101	Intro to Welding	2	ET XXX	Engineering Technology Electives	2
612-122	Fluid Pwr Syst 3: Dsgn & Maintenance	1	ET XXX	Engineering Technology Elective	1
620-151	Machine Cntrl 1: Ladder Logic Fund	1	ET XXX	Engineering Technology Elective	1
620-152	Machine Cntrl 2: Motor & Actuator Cntrl	1	ET XXX	Engineering Technology Elective	1
620-153	Machine Cntrl 3: Sensors & Machine Safety	1	ET XXX	Engineering Technology Elective	1
620-157	Mech Systems 1: Basic Machine Comp	1	ET XXX	Engineering Technology Elective	1
620-158	Mech Systems 2: Power Trans Systems	1	ET XXX	Engineering Technology Elective	1
620-161	Servo Sys 1: Fund of Position Cntrl	1	ET XXX	Engineering Technology Elective	1
620-162	Servo Sys 2: Components & Systems	1	ET XXX	Engineering Technology Elective	1
620-168	PLC 5: Adv Instructions and Programming	1	ET XXX	Engineering Technology Elective	1
620-169	PLC 6: PLC & Automation Integration	1	ET XXX	Engineering Technology Elective	1
Total Northcentral Technical College Credits not applicable to UW-Stout requirements		16			

SECTION F – Additional courses that may be taken at Northcentral Technical College applicable to the program at the University of Wisconsin-Stout but not applicable to the program at Northcentral Technical College

NONE OF THESE COURSES ARE APPLIED TO ANY OF THE OTHER SECTIONS ABOVE.

Northcentral Technical College			University of Wisconsin-Stout			
Course Prefix & Number	Course Name	Credits	Course Prefix & Number	Course Name	Credits	Area Applied
801-155	English Composition 2	3	ENGL 102	Composition 2	3	COMSK
801-197	Technical Reporting	3	ENGL 320	Professional & Technical Comm	3	PROFST
804-189	Introductory Statistics	3	STAT 130 STAT GXX	Elementary Statistics Statistics Elective	2 (1)	PROFST
804-198	Calculus	4	MATH 153	Calculus I	4	ARNS
809-166	Intro to Ethics	3	PHIL 235	General Ethics	3	ARHU/SRER
809-197	Contemporary American Society	3	SOC GBGCS	Sociology Elective	3	CISS
809-172	Intro to Diversity	3	SOC GBGCS	Sociology Elective	3	CISS/SRER
101-111 OR	Accounting 1	4	BUACT 206 BUACT XXX	Intro to Financial Accounting Accounting Elective	3	PROFST
101-147	Intro to Financial Accounting	3	BUACT 201	Financial-Managerial Accounting		
104-172	Marketing Principles	3	BUMKG 330	Principles of Marketing	3	PROFST
196-190	Leadership Development	3	INMGMT 400	Organizational Leadership	3	PROFST
Total additional NTC Credits		31-32	Credits applicable to UW-Stout Program		30	

Signatures completed February 2, 2017. A copy of the signed agreement available upon request.

SIGNATURE BLOCKS

Two-Year College	Name	Signature	Date
President	Dr. Lori Weyers		
Vice President for Learning	Dr. Shelly Mondeik		
University of Wisconsin-Stout	Name	Signature	Date
Program Director	John Schultz		
Dean, College of Science, Technology, Engineering, Mathematics & Management	Dr. Charles Bomar		
Provost	Dr. Patrick Guilfoile		

Agreement contact Persons:

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