

## PROGRAM ARTICULATION TABLE

	<b>Mid-State Technical College</b>	<b>University of Wisconsin-Stout</b>
Program name	Advanced Manufacturing Technician	Automation Leadership
Award Type (e.g., AAS)	<b>A.A.S.</b>	B.S.
Credit Length	63 + SACA Certification (21) = 84	120
Program admission requirements (if any)		Minimum Cumulative 2.0 GPA required

### SECTION A - General Education

College (sending)			University (receiving)							
Course Prefix & Number	Course Name	Credits	Course Prefix & Number	Course Name	GE	RES GLP	Credits Applied	Credits NOT Applied	Equiv Sub Wav	
<i>General Education</i>										
801-136	English Composition 1	3	*ENGL 101	Composition 1	COMSK		3		Equiv	
801-198	Speech	3	COMST-100	Fundamentals of Speech	COMSK		3		Equiv	
809-195	Economics	3	ECON-201	General Economics	SBSC	GLP	3		Equiv	
804-196	Trigonometry with Apps	3	MATH-121	Trigonometry	ARNS		3		Equiv	
809-198	Intro to Psychology	3	PSYC-110	Intro to Psychology	SBSC		3		Equiv	
804-118	<i>Intermediate Algebra with Apps</i>	4	MATH-90	<i>Intermediate Algebra</i>				4		
<b>General Education Total</b>		19	<b>Section A Subtotal</b>					15	4	

**Special Notes, if any:**

\*A grade of C- or better is required to move on to ENGL 102 Composition 2.  
 804-118 is considered remedial coursework at UW-Stout. MATH-90 does not count towards major or graduation requirements.

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

Professional Core (40 credits)							
605-105	Electrical Circuits 1	3	ETECH-XXX	Engineering Technology Electives		3	Equiv
462-106	Mechanical Power Transmission	3	ETECH-XXX	Engineering Technology Electives		3	Equiv
605-117	Automation 1: Beginning PLC	3	ETECH-XXX	Engineering Technology Electives		3	Equiv
605-118	Automation 2: Advanced PLC	3	ETECH-XXX	Engineering Technology Electives		3	Equiv
605-119	Automation 3: HMI's & Networks	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
462-133	Electric Controls for Industrial Automation	3	ETECH-XXX	Engineering Technology Electives		3	Equiv
623-114	Intro to Inventor	1	ETECH-XXX	Engineering Technology Electives		1	Equiv
664-110	Intro to Mechanics	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
664-115	Engineering Drawings	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
623-112	Manufacturing Practices	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
664-121	Vision and Smart Sensors	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
664-104	Industrial Control Systems Apps	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
501-110	Networking 1	3	ETECH-XXX	Engineering Technology Electives		3	Equiv
664-120	Intro to Industrial Internet of Things	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
664-123	Advanced Industrial Robotics	2	ETECH-XXX	Engineering Technology Electives		2	Equiv
462-120	Industrial Hydraulics & Pneumatics	3	ETECH-XXX	Engineering Technology Electives		3	Equiv
664-124	Integrated Systems Capstone <b>AND</b> <i>Team Building &amp; Problem Solving</i>	3	ETECH-XXX <i>JNMGT-400</i>	Engineering Technology Electives <i>Organizational Leadership</i>		3	Sub
196-189		3				3	
<b>SACA Certificate Transfer Core (21 credits)</b> Students can choose to complete any 7 of the following 14 credentials. See Section 2C above for more details.							
C-211	Industry 4.0 Total Productive Maintenance Management	3	ET-XCX	Engineering Technology Electives		3	Sub
C-305	Industry Electronic Systems 1	3	ET-XCX	Engineering Technology Electives		3	Sub
C-308	Variable Frequency Drive Systems 2	3	ET-XCX	Engineering Technology Electives		3	Sub
C-309	Programmable Controller Systems 2	3	ET-XCX	Engineering Technology Electives		3	Sub
C-310	Ethernet Communications 2	3	ET-XCX	Engineering Technology Electives		3	Sub
C-312	Robot Systems Integration 2	3	ET-XCX	Engineering Technology Electives		3	Sub
C-313	Smart Factory Systems 2	3	ET-XCX	Engineering Technology Electives		3	Sub
C-359	Programmable Controller Systems 3	3	ET-XCX	Engineering Technology Electives		3	Sub
C-362	Machine Vision Systems 1	3	ET-XCX	Engineering Technology Electives		3	Sub
C-306	Industrial Electronic Systems 2	3	ET-XCX	Engineering Technology Electives		3	Sub
C-307	Electronic Systems Installation 1	3	ET-XCX	Engineering Technology Electives		3	Sub
C-358	Autonomous Mobile Robot Systems 1	3	ET-XCX	Engineering Technology Electives		3	Sub
C-360	Motion Control Systems 1	3	ET-XCX	Engineering Technology Electives		3	Sub
C-361	Programmable Conveyor Systems 1	3	ET-XCX	Engineering Technology Electives		3	Sub
<b>Major, Emphasis, Unrestricted Electives</b>		<b>65</b>	<b>Section B Subtotal</b>			64	1
<b>Total College Credits Applied (sum of sections A and B)</b>						<b>79</b>	<b>5</b>

**Special Notes, if any:**

196-189 will count towards Automation Leadership Program Core **NOT** Professional Core as 40 credit requirements is already met.

### SECTION C - Remaining University (receiving) Requirements

General Education		
<b>General Education</b>		
ENGL-102	Composition 2	3
	Analytical Reasoning and Natural Science Stout Core	7
	Arts and Humanities Stout Core	6
	Social Responsibility and Ethical Reasoning Stout Core	3
	Stout Core Electives	6
	<b>Total Remaining General Education</b>	<b>25</b>
<b>Program Core</b>		
INMGT-365 <b>OR565</b>	Project Management	3
INMGT-440 <b>OR640</b>	Lean Enterprise	3
INMGT-441 <b>OR641</b>	Digital Transformation	3
INMGT-442 <b>OR642</b>	Internet of Things in Operations	3
INMGT-443	Automation Leadership Capstone	3
INMGT-449	Cooperative Education Experience	1
	<b>Total Remaining Program Core</b>	<b>16</b>
	<b>Total Remaining UW-Stout Credits</b>	<b>41</b>
<b>Special Notes, if any:</b>		

### SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
General Education	19		
Major, Concentration Emphasis, Electives or Other	65		
<b>Total College Credits</b>	<b>84</b>	<b>Total College Credits Applied</b>	<b>79</b>
		<b>Remaining credit to be taken at University (receiving) Institution</b>	<b>41</b>
		<b>Total Program Credits</b>	<b>120</b>
<b>Special Notes, if any:</b>			