

PROGRAM ARTICULATION TABLE

	Mid-State Technical College	University of Wisconsin-Stout
Program name	Advanced Manufacturing Technician	Automation Leadership
Award Type (e.g., AAS)	A.A.S.	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
General Education									
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 or 809-188	Intro to Psychology or Developmental Psychology	3	PSYC-110 or HDFS-255	Intro to Psychology or Lifespan Human Development	SBSC		3		Equiv
804-118	<i>Intermediate Algebra with Apps</i>	4	MATH-90	<i>Intermediate Algebra</i>				4	
General Education Total		19	Section A Subtotal				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 Mechatronics	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
605-145	Industrial Networking	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
664-124 196-189	Integrated Systems Capstone AND <i>Team Building & Problem Solving</i>	3 3	ETECH-XXX <i>JNMGT-400</i>	Engineering Technology Electives <i>Organizational Leadership</i>		3 3		Sub
			SACA Certificate Transfer Core (21 credits) 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
Major, Emphasis, Unrestricted Electives		65	Section B Subtotal			64	1	
Total College Credits Applied (sum of sections A and B)						79	5	
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

Special Notes, if any:	General Education		
		General Education	
	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
		Total Remaining General Education	25
	Program Core		
	INMGT-365 OR565	Project Management	3
	INMGT-440 OR640	Lean Enterprise	3
	INMGT-441 OR641	Digital Transformation	3
	INMGT-442 OR642	Internet of Things in Operations	3
	INMGT-443	Automation Leadership Capstone	3
	INMGT-449	Cooperative Education Experience	1
		Total Remaining Program Core	16
	Total Remaining UW-Stout Credits		
41			

SECTION D - Summary of Total Program Credits

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