

## TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS

**NTC Program: Smart Manufacturing** 

**UW-Stout Program: Automation Leadership** 

Minimum GPA for admission: 2.0 Initial effective date: Fall 2023

## General Education Courses

NTC			UW-Stout		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
	General Physics 1	4	PHYS 241	College Physics 1	4
	College Algebra w/Apps <u>OR</u>	3 or 4	MATH 120	College Algebra	3
	Intermediate Algebra w/apps	3014	MATH 090	Credit not transferable	]
10-801-196	Oral/Interpersonal Communication	3	COMST 100	Fundamentals of Speech	3
10-801-195	Written Communication <u>OR</u>	- 3	ENGL 101	Composition 1	3
10-801-136	English Composition 1	3			
	Introduction to Diversity Studies OR	3	SOC-GAGCS	Sociology Elective OR	2
10-809-196	Intro to Sociology	J	SOC 110	Intro to Sociology	]
	Psychology of Human Relations	3	PSYC-GXX	Psychology Electives	3
10-809-198	Intro to Psychology	٥	PSYCH 110	Intro to Psychology	] ³
10-890-165		1		Not Transferable	
	Total general education credits earned:	20-21			
	Total transferable general education credits:			Total general education credits accepted:	19

Occupational Courses						
Course No.	Course Title	Credits	Course No.	Course Title	Credits	
10-620-151	Machine Control 1: Ladder Logic Fundamentals	1				
10-620-152	Machine Control 2: Motor & Actuator Control	1				
10-620-153	Machine Control 3: Sensors and Machine Safety	1				
	Industry Workplace Safety	1				
	Quality Assurance	1				
10-623-203	Precision Measuring	2				
10-660-123	Industrial Electronics Tech 1	1				
10-660-124	Industrial Electronics Tech 2	1				
10-612-120	Fluid Power Systems 1: fundamentals	1				
	Servo Systems 1: Fundamentals of Indust. Cont.	1				
10-620-164	PLC 1: PLC Fundamentals and Bit Based Instruct.	1				
	PLC 2: Timers, Counters and Program control	1				
10-620-166	PLC 3: Data, Math, Sequencer and Shift Instructors	1				
	Interpreting Engineering Drawings	1				
10-660-125	Industrial Electronics Tech 3	1	•	UW-Stout Accepts all Core course credits as		
10-664-112	Industry 4.0 Fundamentals	1		Engineering Electives	40	
10-620-154	Robotic Applications 1: Fundamentals	1	•	Linginisething Electives		

	Total transferable credits:	65		Total credits accepted at UW-Stout:	62
	Total program credits:	65-66			
•	Elective credits allowed:			Elective credits allowed:	
	Total occupational course credits earned:	45		Total occupational course credits accepted:	43
10-623-173	Introduction to Six Sigma	3	IINIVIG 1-440	NMGT-440 Lean Enterprise	
10-623-147	Lean Manufacturing Fundamentals	2	INIMOT 440	Loop Enterprise	3
10-664-118	Producing Products in an Intelligent Factory	3		7	
10-664-117	Simulation and Al	1		7	
10-664-115	Collaborative Robotics and Vision	1		7	
10-623-112	Statistical Process Control	2		7	
10-606-132	Materials of Industry	2		7	
10-196-189	Team Building and Problem Solving	3		7	
10-664-114	Designing a Solution in a Smart Factory	1		7	
	Industrial Internet of Things	1		7	
10-623-175	Manufacturing Processes	3		7	
	PLC 6: PLC, PAC and PC Automation	1		1	
	PLC 5: Industrial Networking	1		7	
	PLC 4: Advanced Instructions and Program	1		7	
	Servo Systems 3: advanced Position	1		7	
0-620-155	Robotic Applications 2: Robotic System	1			

SACA Certificate Transfer Core						
Students can choose to complete any 7 of the following 14 credentials for credits towards your Bachelors Degree						
Course No.	Course Title	Credits	Course No.	Course Title	Credits	
C-211	Industry 4.0 Total Productive Maintenance Mgmt.	3				
C-305	Industry Electronic Systems 1	3				
C-308	Variable Frequency Drive Systems 2	3				
C-309	Programmable Controller Systems 2	3				
C-310	Ethernet Communications 2	3				
C-312	Robot Systems Integration 2	3				
C-313	Smart Factory Systems 2	3				
C-359	Programmable Controller Systems 3	3		Engineering Technology Electives	21	
C-362	Machine Vison Systems 1	3				
C-306	Industrial Electronic Systems 2	3				
C-307	Electronic Systems Installation 1	3				
C-358	Autonomous Mobile Robot Systems 1	3				
C-360	Motion Control Systems 1	3				
C-361	Programmable Conveyor Systems 1	3				
	Total general education credits earned:	21		Total general education credits accepted:	21	
	Total transferable credits:			Total credits accepted at UW-Stout:	83	

Courses needed to complete degree at UW-Stout:

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Course No.	Course Title	Credits			
ENGL 102	Composition 2				
	Analytical Reasoning and Natural Sciences	3			
	Arts and Humanities	6			
	Social Responsibility and Ethical Reasoning				
	Core Electives	6			
INMGT 365 or 565	Project Management	3			
INMGT 400 or 600	Organizational Leadership	3			
INMGT 441 or 641	Digital Transformation	3			
INMGT 442 or 64	Internet of Things in Operations	3			
INMGT 443	Automation Leadership Capstone	3			
INMGT 449	Cooperative Education Experience	1			
Total credits r	Total credits needed at UW-Stout to complete degree: 37				

Disclaimer: Students planning to transfer should contact NTC's Transfer Specialist and transfer personnel at UW-Stout for the most current transfer information.

**Updated on: 8/31/23**