

# MID-STATE TECHNICAL COLLEGE ADVANCED MANUFACTURING TECHNOLOGY TO UW-STOUT B.S. AUTOMATION LEADERSHIP TRANSFER GUIDE

## Mid-State Technical College General Education Courses

Mid-State Catalog Number	Mid-State Course Name	University Catalog Number	University Course Name	Credits
10-801-136	English Composition 1	ENGL 101	Composition 1	3
10-801-198	Speech	COMST 100	Fundamentals of Speech	3
10-804-118	Intermediate Algebra with Applications	MATH 90	Intermediate Algebra <i>(Does not count toward major or graduation requirements)</i>	4
10-804-196	Trigonometry with Applications	MATH 121	Trigonometry	3
10-809-198 OR 10-809-188	Introduction to Psychology <i>Recommended course</i> OR Developmental Psychology	HDFS 255 OR PSYC 110	Lifespan Human Development OR General Psychology	3
10-809-195	Economics	ECON 201	General Economics	3

## Mid-State Technical College Program Courses

Mid-State Catalog Number	Mid-State Course Name	University Catalog Number	University Course Name	Credits
10-462-106	Mechanical Power Transmission	ETECH XXX	Engineering Technology Elective	3
10-462-120	Industrial Hydraulics and Pneumatics	ETECH XXX	Engineering Technology Elective	3
10-462-133	Electric Controls for Industrial Automation	ETECH XXX	Engineering Technology Elective	3
10-605-105	Electrical Circuits I	ETECH XXX	Engineering Technology Elective	3
10-605-117	Automation 1-Beginning PLC	ETECH XXX	Engineering Technology Elective	3
10-605-118	Automation 2-Advanced PLC	ETECH XXX	Engineering Technology Elective	3
10-605-119	Automation 3-HMI's & Robotics	ETECH XXX	Engineering Technology Elective	2
10-605-145	Industrial Networking	ETECH XXX	Engineering Technology Elective	2
10-623-112	Manufacturing Practices	ETECH XXX	Engineering Technology Elective	2
10-623-114	Intro to Inventor	ETECH XXX	Engineering Technology Elective	1
10-664-104	Industrial Control Systems Applications	ETECH XXX	Engineering Technology Elective	2
10-664-110	Intro Mechatronics	ETECH XXX	Engineering Technology Elective	2
10-664-120	Intro to Industrial Internet of Things	ETECH XXX	Engineering Technology Elective	2
10-664-121	Vision & Smart Sensors	ETECH XXX	Engineering Technology Elective	2
10-664-123	Advanced Industrial Robotics	ETECH XXX	Engineering Technology Elective	2
10-664-128	AutoCAD Electrical	ETECH XXX	Engineering Technology Elective	2
10-664-124 AND 10-196-189	Integrated Systems Capstone AND Team Building & Problem Solving	ETECH XXX AND INMGT 400	Engineering Technology Elective and Organizational Leadership	6

## SACA Certificate Transfer Core

Students can choose to complete any seven of the following 14 credentials

SACA Credential Number	SACA Credential Name	University Catalog Number	University Course Name	Credits
C 211	Industry 4.0 Total Productive Maintenance Management	ETECH XXX	Engineering Technology Elective	3
C 305	Industry Electronic Systems 1	ETECH XXX	Engineering Technology Elective	3
C 308	Variable Frequency Drive Systems 2	ETECH XXX	Engineering Technology Elective	3
C 309	Programmable Controller Systems 2	ETECH XXX	Engineering Technology Elective	3
C 310	Ethernet Communications 2	ETECH XXX	Engineering Technology Elective	3
C 312	Robot Systems Integration 2	ETECH XXX	Engineering Technology Elective	3
C 313	Smart Factory Systems 2	ETECH XXX	Engineering Technology Elective	3
C 359	Programmable Controller Systems 3	ETECH XXX	Engineering Technology Elective	3
C 362	Machine Vision Systems 1	ETECH XXX	Engineering Technology Elective	3
C 306	Industrial Electronic Systems 2	ETECH XXX	Engineering Technology Elective	3
C 307	Electronic Systems Installation 1	ETECH XXX	Engineering Technology Elective	3
C 358	Autonomous Mobile Robot Systems 1	ETECH XXX	Engineering Technology Elective	3
C 360	Motion Control Systems 1	ETECH XXX	Engineering Technology Elective	3
C 361	Programmable Conveyor Systems 1	ETECH XXX	Engineering Technology Elective	3

Total Credits Transferred from Mid-State Technical College

79

Remaining Courses to Complete at UW-Stout

University Catalog Number	University Course Name	Credits
ENGL 102	Composition 2	3
Analytical Reasoning and Natural Science Core	Choose from designated courses	7
Arts and Humanities Stout Core	Choose from designated courses	6
Social Responsibility and Ethical Reasoning Stout Core	Choose from designated courses	3
Stout Core Electives	Choose from designated courses	6
INMGT 365 OR 565	Project Management	3
INMGT 440 OR 640	Lean Enterprise	3
INMGT 441 OR 641	Digital Transformation	3
INMGT 442 OR 642	Internet of Things in Operations	3
INMGT 443	Automation Leadership Capstone	3
INMGT 449	Cooperative Education Experience	1

### Additional Information

- To provide flexibility to students pursuing this pathway, students can choose to receive the 21 credits for the SACA certification in one of the following three ways:
  - Transfer 21 credits from Mid-State Technical College or other technical college partners.
  - Receive the SACA certification through other options (i.e., industry partners that offer the SACA certification exam). Students following this pathway will utilize Prior Learning Credit either through a technical college partner or UW-Stout to earn credit.
  - A combination of options listed above.