

AGRONOMY TECHNICIAN

Technical Diploma

Program Code: 31-006-4

Total Credits: 28

Students in Mid-State's Agronomy Technician program gain a deep understanding of the science and technology of using plants as a source of food. They also acquire the specialized skills needed for precision agriculture applications and regulatory requirements. The program will prepare you to use the latest technology to help farmers yield maximum production from the land. You'll also get hands-on experience producing a crop, keeping pests away, making soil more fertile, marketing commodities, and managing a farm.

To learn more about this program, visit mstc.edu/programs.

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715-422-5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit mstc.edu/advising.

NEW STUDENT CHECKLIST

Complete the following steps to prepare for your New Student Advising appointment with your academic advisor:

- Submit a Mid-State application at mstc.edu/apply.
- Send official transcripts to:
Mid-State Technical College
Student Services
500 32nd Street North
Wisconsin Rapids, WI 54494
- Complete the Free Application for Federal Student Aid (FAFSA) at fafsa.gov. Mid-State's Financial Aid team is available to assist with your FAFSA application and to answer your financial aid questions. Contact Financial Aid or schedule an appointment at mstc.edu/financial-aid.
- Set up student MyCampus account at mstc.edu/mycampus-assistance.
- Schedule a New Student Advising appointment at mstc.edu/advising.

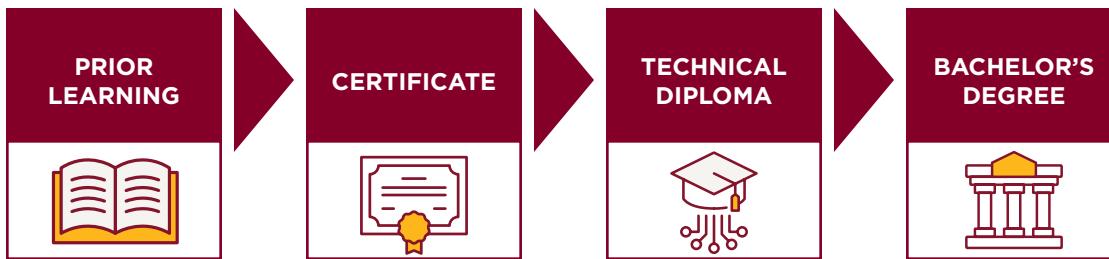
mstc.edu • 888-575-6782 • TTY: 711



Adams Campus • Marshfield Campus • Stevens Point Downtown Campus • Wisconsin Rapids Campus • Virtual Campus • AMETA® Center

Mid-State does not discriminate on the basis of race, color, national origin, sex, disability, or age in its program, activity, or employment. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Vice President – Human Resources; 500 32nd Street North, Wisconsin Rapids, WI 54494; 715-422-5325 • AAEO@mstc.edu. 3/2026-AC

CAREER PATHWAY



Career pathways help you build your education step by step. Each stage offers one or more credentials that are recognized by employers and lead to real jobs—and you can keep building toward your career goals as you go.

Begin at any point.

Prior Learning

Credit for Prior Learning

- Certifications and Licenses
- Military Experience
- National/Standardized Exams
- Transfer Credit
- Work and Life Experience

Learn about Credit for Prior Learning at mstc.edu/cpl.

High School Credit

- High School Dual Credit
- Mid-State Fast Track

Learn about High School Credit at mstc.edu/dc.

Certificate

- Agronomy Equipment Basics (5 Credits)

Technical Diploma

- Agronomy Technician (28 Credits)
Start Your Career: Crop Scout, Grower, Irrigator

Bachelor's Degree

For those interested in continuing their education, Mid-State offers transfer guides with various four-year colleges and universities. For more information, visit mstc.edu/transfer.

Other Options

Related Programs: Agribusiness Science & Technology, Arborist Technician, Farm Operation, Utility Tree Trimmer

OUTCOMES

Employers will expect you, as an Agronomy Technician graduate, to be able to:

- Develop a crop management plan.
- Apply relevant technologies.
- Investigate opportunities in agribusiness.
- Interact as a professional in agribusiness.
- Apply economic and marketing strategies to agribusiness industries.

TECHNICAL SKILLS ATTAINMENT

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure outcomes attained by students. This requirement is called Technical Skills Attainment (TSA). The main objective of TSA is to ensure graduates have the technical skills needed by employers. Faculty will let students know when and how the TSA is being assessed in the program.

STUDENT HANDBOOK

Visit mstc.edu/studenthandbook to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. Some students are exempt from this requirement. Please see your academic advisor for more information.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum placement scores.

College Reading and Writing 1

10831104

3 credits

Provides learners with opportunities to develop and expand reading and writing skills to prepare for college-level academic work. Students will employ critical reading strategies to improve comprehension, analysis, and retention of texts. Students will apply the writing process to produce well-developed, coherent, and unified written work.

Pre-Algebra

10834109

3 credits

Provides an introduction to algebra. Includes operations on real numbers, solving linear equations, percent and proportion, and an introduction to polynomials and statistics. Prepares students for elementary algebra and subsequent algebra-related courses.

MULTIPLE MEASURES

Students can place into courses using high school GPA and completed classes. Placement can be determined in the following ways:

- **Multiple Measures Writing (MMW)**
High school GPA of 2.6 & successful completion of 2.0 credits of high school writing courses with a "C" or better
- **Multiple Measures Reading (MMR)**
High school GPA of 2.6 & successful completion of 2.0 credits of high school literature courses with a "C" or better
- **Multiple Measures Math 1 (MMM_1)**
High school GPA of 2.6 & successful completion of 1.0 credit of high school math (Algebra 1 or equivalent) with a "C" or better
- **Multiple Measures Math 2 (MMM_2)**
High school GPA of 2.6 & successful completion of 2.0 credits of high school math including Algebra 1 and Algebra 2 with a "C" or better
- **Multiple Measures Science 1 (MMS_1)**
High school GPA of 2.6 & successful completion of 1.0 credit of high school lab science course with a "C" or better
- **Multiple Measures Science 2 (MMS_2)**
High school GPA of 2.6 & successful completion of 1.0 credit of high school chemistry with a "C" or better

Past high school and college transcripts are used in making course placement decisions.

SAMPLE FULL-TIME CURRICULUM OPTION

Agronomy Technician • 28 Total Credits

| Term 15 Credits | Course Number | Course Name | CPL | Credits |
|--------------------|---------------|--------------------------------|-----|---------|
| | 10093101 | Integrated Pest Management | Yes | 2 |
| | 10093102 | Intro to Precision Agriculture | No | 3 |
| | 10103106 | Microsoft Office-Introduction | Yes | 3 |
| | 10093104 | Principles of Crop Management | No | 3 |
| | 10080105 | Intro to Soil Science | No | 3 |
| | 10890102 | GPS for Student Success | Yes | 1 |

| Term 13 Credits | Course Number | Course Name | CPL | Credits |
|--------------------|---------------|--|-----|---------|
| | 10006102 | Agribusiness Equipment and Facilities | No | 2 |
| | 10006107 | Agriculture Commodities & Marketing | No | 3 |
| | 10040104 | Basic Agriculture Mechanics and Technology | No | 3 |
| | 10006007 | Agriculture Internship | No | 2 |
| | 10040103 | Agriculture Electrical and Irrigation | No | 3 |

Please Note

- Credit for Prior Learning (CPL) options are available for some courses. You can visit mstc.edu/cpl or contact your academic advisor for details.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability. For details, go to mstc.edu/schedule.
- Get the latest updates online at mstc.edu.

SAMPLE PART-TIME CURRICULUM OPTION

Agronomy Technician • 28 Total Credits

| Term 9 Credits | Course Number | Course Name | CPL | Credits |
|-------------------|---------------|--------------------------------|-----|---------|
| | 10093101 | Integrated Pest Management | Yes | 2 |
| | 10093102 | Intro to Precision Agriculture | No | 3 |
| | 10093104 | Principles of Crop Management | No | 3 |
| | 10890102 | GPS for Student Success | Yes | 1 |

| Term 5 Credits | Course Number | Course Name | CPL | Credits |
|-------------------|---------------|---------------------------------------|-----|---------|
| | 10006102 | Agribusiness Equipment and Facilities | No | 2 |
| | 10006107 | Agriculture Commodities & Marketing | No | 3 |

| Term 6 Credits | Course Number | Course Name | CPL | Credits |
|-------------------|---------------|-------------------------------|-----|---------|
| | 10103106 | Microsoft Office-Introduction | Yes | 3 |
| | 10080105 | Intro to Soil Science | No | 3 |

| Term 8 Credits | Course Number | Course Name | CPL | Credits |
|-------------------|---------------|--|-----|---------|
| | 10006007 | Agriculture Internship | No | 2 |
| | 10040104 | Basic Agriculture Mechanics and Technology | No | 3 |
| | 10040103 | Agriculture Electrical and Irrigation | No | 3 |

Agribusiness Equipment & Facilities

10006102

2 credits

Examines arrangement and design of efficient farm buildings and equipment as well as construction requirements. Farmstead planning includes mapping of present facilities as well as evaluating usefulness and planning long and short-range goals for farmstead changes to improve economics, safety, efficiency and aesthetics. Environmental factors and animal wellness needs are identified, including space, ventilation, nutrition, and care. Also examines the appropriate use and care of feed, fertilizer, planting and harvesting equipment, and dairy and livestock equipment and facilities. Possible equipment/facility changes are discussed and business expansion is analyzed.

Agriculture Commodities & Marketing

10006107

3 credits

This course introduces students to agricultural commodity markets with a focus on price analysis, market structures, marketing strategies, and risk management. Topics include supply and demand, government policies, international trade, and the agricultural supply chain. Students will study major field crops, livestock, and milk markets; explore the role of cooperatives in marketing; and learn how futures and options markets function as tools for price discovery and risk management.

Agriculture Electrical and Irrigation

10070103

3 credits

This course introduces the fundamentals of agricultural irrigation and electrical systems, focusing on how electricity powers pumps, motors, sensors, and automated controls for efficient water management. Students explore how systems like sprinklers and drip irrigation rely on electrical components to ensure consistent and precise water distribution. Emphasis is placed on safe installation, operation, and maintenance practices, highlighting the essential role of agricultural electricians in supporting reliable and efficient irrigation systems.

Agriculture Internship

10006007

2 credits

This course provides an opportunity for students to apply concepts of agribusiness classroom study with specific off-campus real-life agricultural experiences at local employers. An organized plan of experiences built around agriculture competencies is planned, supervised, and evaluated by the instructor and cooperating business supervisor.

Prerequisites: Admission to the Agribusiness and Science Technology or Agronomy Technician program and completion of at least 12 credits of agriculture course work in the areas of 10006, 10070, 10080, 10090, 10091, or 10093.

Basic Agriculture Mechanics and Technology

10070104

3 credits

Students learn the fundamentals of agricultural mechanics, focusing on the operation, maintenance, and repair of relevant equipment. Topics include diesel and small engine systems, hydraulics, electrical, fuel, and exhaust systems, with emphasis on precision measuring and safe work practices. The course also introduces the troubleshooting of modern technologies such as GPS, automation, and sustainable energy systems used in today's agricultural operations.

GPS for Student Success

10890102

1 credit

Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course is recommended to be completed prior to obtaining 12 credits and is a graduation requirement unless you receive an exemption from your program advisor.

Integrated Pest Management

10093101

2 credits

An effective and environmentally sensitive approach to pest management. Learners explore various approaches in integrated pest management (IPM) and gather information on the life cycles of pests and their interactions with the environment. This information in combination with available pest control methods are used to identify the most economical pest management options, with the least possible hazard to people, property, and environment.

Intro to Precision Agriculture

10093102

3 credits

Explores agricultural applications of GPS, yield monitoring systems, and mapping. Students learn to interpret maps generated by precision agriculture equipment. Learners experience setup, calibration and operation of equipment/software designed to support the production crop industry.

Intro to Soil Science

10080105

3 credits

Designed to provide students with fundamental knowledge of soil and soil composition. Includes study of soil types, formation factors, physical properties, biological properties, and basic soil chemistry. Units covering tillage, conservation, pH, soil management, plant nutrients, and fertilizer sources are also included. Students gain the skills required to interpret soil test reports and soil survey maps and recognize qualities of various soil types. Students perform soil sampling, residue measurements, compaction assessments, and soil loss determinations per crop rotation guidelines.

Microsoft Office-Introduction

10103106

3 credits

Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. This course prepares students for the Associate level MOS Certification exams for Word, Excel, PowerPoint, and Outlook. Students should possess basic keyboarding, mouse, and Windows 11 skills. Students may develop these skills in the Academic Learning Center while concurrently enrolled in this course.

Principles of Crop Management

10093104

3 credits

The basic principles and concepts of sound agronomic practices are discussed for corn, soybeans, small grains, and forage crops grown in Wisconsin. All sound agronomy practices are emphasized for each crop area as it relates to cultural and other specific inputs of crop production, environmental factors, and sustainable systems.