



agribusiness agronomy technician

Technical Diploma Program Code: 31-006-4 Total Credits: 26

Students in Mid-State's Agribusiness 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.

Estimated tuition and fees: mstc.edu/programcosts

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.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- FAFSA (www.fafsa.gov)
- Financial Aid Form(s)
Form(s): _____
- Follow-Up Appointment:
Where: _____
When: _____
With: _____
- Official Transcripts
Mid-State Technical College
Student Services Assistant
1001 Centerpoint Drive
Stevens Point, WI 54481
- Other: _____

mstc.edu
888.575.6782
TTY: 711



ADAMS CAMPUS
401 North Main
Adams, WI 53910

MARSHFIELD CAMPUS
2600 West 5th Street
Marshfield, WI 54449

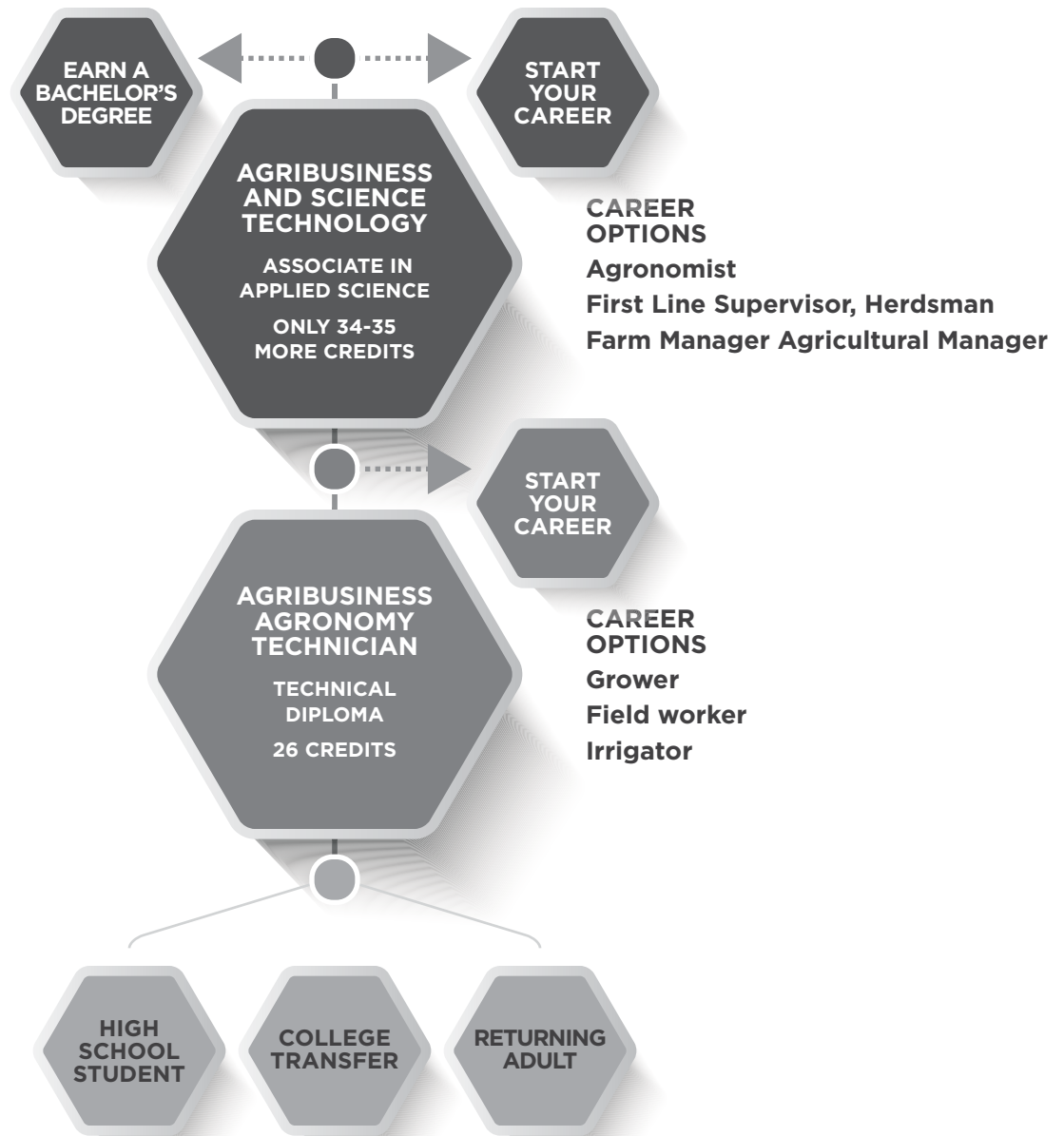
STEVENS POINT CAMPUS
1001 Centerpoint Drive
Stevens Point, WI 54481

WISCONSIN RAPIDS CAMPUS
500 32nd Street North
Wisconsin Rapids, WI 54494

BACHELOR'S DEGREE OPTIONS

UW-River Falls
BS Agricultural Studies

For more information and additional opportunities, visit mstc.edu/transfer.



College Credit • Dual Credit • Military Experience • Work Experience
Learn about Credit for Prior Learning at mstc.edu/cpl.

**BEGIN AT ANY POINT
IN THE PATHWAY**

OTHER OPTIONS

RELATED PROGRAMS

- Arborist Technician
- Farm Business & Production Management
- Farm Operation

PROGRAM OUTCOMES

Employers will expect you, as an Agribusiness 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 industry.

TECHNICAL SKILLS ATTAINMENT

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure program 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. Students are notified of TSA reporting in their final few courses of 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.

NOTES:

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. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

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 must be completed prior to obtaining 12 credits and is a graduation requirement.

ADDITIONAL COURSES AS NEEDED

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

Intro to College Reading

10838104 2 credits

Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103 3 credits

Introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents. The purpose of this course is to prepare students for successful entry into required program courses. This course is tuition bearing and under certain circumstances may qualify for financial aid. This course cannot be used to satisfy program completion requirements at Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

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.

Prerequisite: Accuplacer Math score of 65, Accuplacer Algebra score of 30, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		14 credits
10070102	Precision Equipment Systems	2
10080105	Intro to Soil Science	3
10091103	Animal Nutrition	4
10093101	Integrated Pest Management	2
10093104	Principles of Crop Management	3
Term		12 credits
10006101	Agricultural Computations	3
10070103	Basic Agriculture Electrical, Mechanical, and Irrigation	3
10093102	Intro to Precision Agriculture	3
10806184	Plant Biology	3
		Total credits 26

Please Note:

- 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/classfinder.

SAMPLE PART-TIME CURRICULUM OPTION

Term		5 credits
10070102	Precision Equipment Systems	2
10093104	Principles of Crop Management	3
Term		6 credits
10093102	Intro to Precision Agriculture	3
10806184	Plant Biology	3
Term		7 credits
10091103	Animal Nutrition	4
10006101	Agricultural Computations	3
Term		8 credits
10070103	Basic Agriculture Electrical, Mechanical, and Irrigation	3
10080105	Intro to Soil Science	3
10093101	Integrated Pest Management	2
		Total credits 26

Agricultural Computations

10006101.....3 credits

Deals with the application of quantitative tools to support agribusiness management decisions. These management decisions are executed using spreadsheet and data analysis (e.g., Microsoft Excel) while using elementary mathematical tools in an agricultural economics context. This course is designed to prepare students for upper-level agribusiness courses as well as real-world situations in agriculture.

Animal Nutrition

10091103..... 4 credits

Students demonstrate how to formulate and balance rations for several species of livestock. Includes knowledge of the nutritional needs of various species and ability to identify different feedstuffs. Students become familiar with the laws and regulations on livestock feeding along with reading, interpreting, and making recommendations from feed test reports/tags. They are also able to successfully understand the digestive systems of mono-gastric and ruminant animals.

Prerequisite: Intro to Animal Science 10091102 or consent of an instructor

Basic Agriculture Electrical, Mechanical, and Irrigation

10070103.....3 credits

Students learn the fundamentals of electrical and irrigation systems related to agricultural equipment and facilities. Electrical topics discussed include safety precautions, Ohm's law, generators, batteries, electric motors, water heaters, overcurrent protection, conductor sizing, and national electrical code requirements. Irrigation topics include an introduction to irrigation systems which includes the study of systems design, pump selection and repair, safety controls, power units, power requirements, power distribution, and basic electrical concepts of irrigation systems.

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. A nutrient management plan is created and analyzed.

Plant Biology

10806184.....3 credits

This lecture/laboratory course provides students with an in-depth study of the plant kingdom. The content includes, but is not limited to, plant cell anatomy and physiology, plant genetics, plant classification, plant anatomy and physiology, plant responses, plant life cycles, and ecology. A survey of viruses, prokaryotes, protista, and fungi as they pertain to plants is presented.

Precision Equipment Systems

10070102.....2 credits

Provides experience with different precision farming GPS systems used on agriculture equipment. Students learn proper setup, calibration, and installation of the systems. Students also create and interpret maps and learn adjustments and settings as well as GPS display and the different functions related.

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.