



Agricultural Technology A.A.S.

Career Community: Science and Mathematics

Curriculum Code: 1451

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Agricultural Technology degree is designed to train individuals to work in agri-business or in various other aspects of the agricultural industry, depending upon the specific Certificate program completed at Michigan State University (MSU). MSU certificates include Agricultural Industries, Dairy Management, Electrical Technology, Fruit, Vegetable and Organic Horticulture Management, Horse Management, Landscape and Nursery Management, Livestock Industries, Sports and Commercial Turf Management, and Turfgrass Management Golf Course. This program is offered through a joint agreement between Lansing Community College (LCC) and the Michigan State University Institute of Agricultural Technology (IAT), with Major courses taught by MSU and General Education courses taught by LCC.

Milestone

Completion of the required General Education Math, English and Science courses with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Students may enter this curriculum in one of two ways. A student may begin at LCC, taking general education classes, and apply to the IAT for admittance to one of the specific concentrations listed above. Alternatively, students may be admitted first to a specific Certificate program in the IAT and then decide to enter the joint program to receive the AAS degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092; the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904; or the MSU Institute of Agricultural Technology, Room 120 Agriculture Hall on the MSU campus, telephone number 517-355-0190.

Major Required Course, English Composition or Applied English –Select one

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Course, English Composition (second course) or Communication or Applied Communication –Select one

Course Code	Course Title	Credit / Billing Hours
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3

Major Required Course, Humanities and Fine Arts or Social Sciences or Applied Social Sciences –Select one

Course Code	Course Title	Credit / Billing Hours
ECON 201	Principles of Economics-Micro	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4
SPAN 121	Elementary Spanish I	4 / 4

Major Required Course, Mathematics or Applied Mathematics –Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math – Applications for Living	4 / 4
MATH 120*	College Algebra	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

*MATH 120 highly recommended

Major Required Course, Natural Sciences Lab or Applied Sciences or Technology Lab –Select one; CHEM 151 & CHEM 161 is one option.

Course Code	Course Title	Credit / Billing Hours
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 127	Cell Biology	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meets this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meets this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meets this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meets this requirement.
- Natural Sciences Lab or Applied Sciences or Technology Lab*
Major Required Courses meets this requirement.

**Students who have completed MSU ANS 110 and 110L, ANS 242, CSS 101 and CSS 101L, or HRT 203, and HRT 213 and 213L with grades of 2.0 or higher will satisfy the Applied Science requirement. Students should contact their advisor for information.*

MSU Agricultural Technology Courses

Minimum 47 Credits - Required Agricultural Technology certificate from Michigan State University

Institutional Requirements

Choose an appropriate Lansing Community College course or courses so that the total number of credits taken at LCC is 15 or more per college policy, and so that at least 60 credits are earned toward the degree. Part of this requirement may automatically be fulfilled if a student completes 15 or more credits of the General Education – Applied Degree courses.

Minimum Total Credit Hours

66 credits / 21 billing hours

Recommended Course Sequence

Semester I
Agricultural Technology courses from MSU
Semester II
Agricultural Technology courses from MSU
Semester III
Agricultural Technology courses from MSU

Semester IV
Gen Ed - English Composition or Applied English
Gen Ed - English Composition (second course) or Communication or Applied Communication
Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Gen Ed - Mathematics or Applied Mathematics
Gen Ed - Natural Sciences Lab or Applied Sciences or Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.