

# AGRICULTURAL TECHNOLOGY

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The Agriculture Associates degree program is designed to provide students with practical education in an increasing demand field. The first-year students will learn fundamental Agronomy and Agriculture Business aspects to provide a foundation for their second-year of the curriculum. Students will choose a pathway in either Prescription Mapping or Robotics with Artificial Intelligence. The Prescription Mapping option prepares graduates for careers in soil and water conservation, field application, agronomic consultant technician, and agriculture sales. The Robotics and Artificial Intelligence option prepares students to support and gather information from robotic agricultural equipment.

While completing the Prescription Mapping specialization, the students will acquire fundamental information about Ohio's agricultural soil variation and associated cropping practices, agriculture product sales and return on investment evaluation, and apply those principles to technical skills in creating prescription maps from laboratory and field-based results. While completing the Robotics with Artificial Intelligence specialization, the students will utilize the same fundamental agronomy and agriculture business skills while working with emerging technical innovations.




This technical agriculture program provides a strong foundation for students who wish to earn pesticide application and crop advisor certifications.

**Technical Standards**  
 See here for details.

**Tech Prep Partner**  
 See here for details.

## Agriculture Technology Associate of Applied Science

### First Year

First Semester	Hours
SDE 1010  First Year Experience 	1
COM 1110  English Composition	3
AGR 1000 Introduction to Agriculture	3
AGR 1100 Principles of Agricultural Business Management	3
AGR 1402 Principles of Crop Management	3
AGR 1404 Introduction to Integrated Pest Management	3
<b>Term Hours</b>	<b>16</b>

### Second Semester

CHM 1110 Introductory General Chemistry	4
AGR 1200 Sustainable Agriculture	3
AGR 1300 Principles of Agricultural Marketing and Sales	3

AGR 1401 Introduction to Soils for Agronomic Production	3
AGR 1403 Principles of Nutrient Management	3

**Term Hours 16**

### Second Year

#### First Semester

MTH 1370 College Algebra	4
Prescription Mapping or Robotics and Intelligence Requirements (see Track details below)	12

**Term Hours 16**

#### Second Semester

BIO 1310 Environmental Science I	3
ECN 1430 Micro Economics	3
Prescription Mapping or Robotics and Intelligence Track Requirements (see Track details below)	11

**Term Hours 17**

**Total Hours 65**

## Agriculture Technology Prescription Mapping Track



### Second Year

#### First Semester

	Hours
AGR 1500 Precision Agriculture Equipment	3
AGR 1515 Introduction to GPS in Agriculture	3
AVI 1000 Unmanned Aerial Systems	3
CET 2220 Surveying Fundamentals	3

**Term Hours 12**

#### Second Semester



AVI 1200 Unmanned Aerial Systems Basic Operation	3
AGR 1501 Prescription Mapping in Agriculture	3
AGR 1540 Introduction to GIS in Agriculture	3
AGR 2970  Agriculture Technology Capstone 	1
AGR 2991 Field Experience	1

**Term Hours 11**


**Total Hours 23**

# Agriculture Technology Agriculture Robotics and Intelligence Track

## Second Year

First Semester		Hours
AGR 1500	Precision Agriculture Equipment	3
AMT 1070	Basic Electricity and Electronics	3
AMT 2030	Programmable Logic Controllers	3
MET 2310	Fluid Power	3
<b>Term Hours</b>		<b>12</b>
<b>Second Semester</b>		
AMT 2050	Robot Maintenance	3
FMS 2110	Basic Robotics and Mechatronics	3
AGR 1600	Introduction to Artificial Intelligence in Agriculture	3
AGR 2970 	Agriculture Technology Capstone	1
 AGR 2991	Field Experience	1
<b>Term Hours</b>		<b>11</b>
<b>Total Hours</b>		<b>23</b>

 Portfolio

 Capstone