

AGRICULTURE - CROP AND SOIL SCIENCE, ASSOCIATE OF SCIENCE (461)

About Our Program

This program is intended to provide the first two years of a 4-year baccalaureate program and includes the general education, agriculture, science, and math courses required of the transfer student.

Nature of Work and Employment

People who work in the crop and soil science pathway study plants and how they impact our world. Crop and soil professionals help feed our growing population by monitoring the quality and safety of our food. They also solve problems by developing crops that are resistant to insects and improve models to grow more food with less space. Others work to conserve our natural resources. Technology advancements in equipment and biotechnology keep this field evolving into new and exciting career opportunities. Some examples of careers within crop and soil science are listed below.

- Agronomist
- Entomologist
- Plant Breeder
- Plant Geneticist
- Plant Pathologist
- Soil Scientist
- Weed Scientist
- Crop Producer

Special Considerations

The listed coursework is a recommendation only. Students should check with a student advisor for HCC graduation requirements. **Students must meet with an advisor to ensure that the special requirements of the department and institution to which they plan to transfer are met.** Colleges and universities have specific requirements for transfer students.

Requirements

Associate of Science Requirements

Students must meet all requirements for the Associate of Science degree (<https://catalog.highland.edu/programs-available/as-requirements/>) in order to graduate from Highland Community College. For more information, please see your advisor.

Recommended Courses

Associate of Science Degree

Code	Title	Hours
	Communications	9
	Humanities & Fine Arts	6
	Mathematics (see recommendations below)	7

Physical & Life Science (see recommendations below)	11
Social & Behavioral Sciences	6
Major/Minor Electives (see recommendations below)	23
Total Hours	62

Agriculture Recommendations

Code	Title	Hours
AGRI 284	Soil Science	4
AGRI 286	Crop Science	4
AGRI 187	Intro to Precision Agriculture	3

Physical & Life Science Recommendations

Code	Title	Hours
BIOL 110	Principles of Biology	4
CHEM 120	Elementary General Chemistry ¹	4

Mathematics Recommendations

Code	Title	Hours
MATH 134	Statistics ¹	4

Agriculture Electives

Code	Title	Hours
AGRI 182	Introductory Ag Mechanics	4
AGRI 184	Intro to Ag Economics	3
AGRI 186	Introduction Animal Science	4
AGOC 222	Ag Commodity Marketing	3
AGOC 240	Farm Accounting	3

¹ Course has a prerequisite. See course description.

Program Outcomes

- Students will demonstrate an ability to engage in critical thinking by analyzing situations and constructing and selecting viable solutions to solve problems.
- Students will understand and analyze the current events and issues that are occurring in agriculture and how they affect the future in agriculture.
- Students will demonstrate the ability to communicate effectively and confidently both orally and in writing.
- Students will demonstrate the ability to analyze data and draw appropriate statistical conclusions.
- Students will be encouraged to network and grow professionally through participation in PAS and Collegiate Farm Bureau activities.

Program Contacts

Call Highland at 815-235-6121 for the following program contacts:

- Dr. Matt Magee, Dean of Agriculture, Business & Technology
- Justin Ebert, Agriculture Instructor
- Olivia Kepner, Agriculture Instructor
- Monica Pierce, Agriculture Instructor
- Vicki Schulz, Student Advisor/Transfer Coordinator