

# Agriculture (402)

## Crop and Soil Science

### ASSOCIATE OF SCIENCE

#### 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.

#### 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.

#### 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	Plant Pathologist
Entomologist	Soil Scientist
Plant Breeder	Weed Scientist
Plant Geneticist	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.

#### Program Contacts

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

- Scott Anderson, Vice President of Business, Technology, and Community Programs
- Justin Ebert, Agriculture Instructor
- Monica Pierce, Agriculture Instructor
- Vicki Schulz, Student Advisor/Transfer Coordinator

#### Recommended Courses

The following are recommended courses for this major only. Students must still meet all requirements for the Associate of Science degree (see page 58) in order to graduate from Highland Community College. For more information, please see your student advisor.

#### Associate of Science Degree Credit 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

**Degree Total = 62**

#### Agriculture Recommendations

AGRI	284	Soil Science	4
AGRI	286	Crop Science	4

#### Physical & Life Science Recommendations

BIOL	110	Principles of Biology	4
* CHEM	120	Elementary General Chemistry	4

#### Mathematics Recommendations

MATH	134	Statistics	4
------	-----	------------	---

#### Agriculture Electives

AGRI	182	Introductory Agricultural Mechanization	4
AGRI	184	Introduction to Agricultural Economics	4
AGRI	186	Introduction to Animal Science	4
AGOC	222	Marketing Agricultural Products	3
* AGOC	240	Farm Business Management	3

\* Course has a prerequisite. See course description.