

# AGRICULTURE INSTITUTE



**METROPOLITAN  
COMMUNITY COLLEGE**  
MAPLE WOODS

**AGRICULTURE  
PATHWAYS**  
**ANIMAL SCIENCE  
PLANT SCIENCE  
AGRIBUSINESS**

**TURN YOUR  
PASSION INTO A  
PROFESSION WITH AN  
AGRICULTURE DEGREE FROM MCC**

Agricultural career options are not limited to farming and ranching. If working with crops, animals and resources that contribute to the worldwide food supply appeals to you, a career in agriculture can provide a rewarding and fulfilling future.

[mcckc.edu/programs/agriculture](http://mcckc.edu/programs/agriculture)

# MCC OFFERS AN AGRIBUSINESS, A PLANT SCIENCE, AND AN ANIMAL SCIENCE DEGREE PLAN SO STUDENTS CAN PURSUE THEIR INTEREST AREA.

- Agribusiness pathway is for students who want to go into the business, economics, marketing, farm management, or logistics of agriculture.
- Plant science pathway is for students who want to go into horticulture, agronomy, hydroponics, aquaponics, aeroponics, landscaping, turf management, greenhouse management, or urban agriculture.
- Animal science pathway is for students who want to go into livestock production, aquaculture, animal nutrition, meat science, or veterinary science.

## Plant Science Pathway

Plant Science is the study of plant growth, reproduction, evolution, and adaptation, as well as the use of plants for food, fiber, and ornamental purposes. Students might even go on to create a new variety of plant with desired characteristics that have disease resistance and is climate tolerant.

Plant scientists are in high demand to address many of the world's most challenging dilemmas:

- Producing enough food for a growing world population.
- Breeding plants to tolerate the heat- and drought-stress caused by climate change.
- Developing sustainable crop production practices to produce more nutritious food.
- Creating urban indoor agriculture utilizing hydroponics and aeroponics.
- Researching methods to fight plant diseases.

- Restoring damaged environments to help feed populations that are struggling.
- Conserving plant species for future generations.

## A.A.S. Agriculture – Plant Science Pathway

Requirements: Global Agriculture, Leadership in Agriculture, General Biology, General College Chemistry, Ethics, Introduction to Agriculture, Plant Science

Electives: Introduction to Agribusiness, Pest Management, Agribusiness Management, Soil Science, Agriculture Marketing, Horticulture, Microbiology

General Education Requirements: 18 hours

Total of 61 Credit Hours.





# YOUR COLLEGE. MCC FUTURE.

The A.A.S. in agriculture will serve students pursuing a degree and employment in the agriculture industry, and it will create a transfer pathway for students who wish to move on to university agriculture programs to earn a bachelor's degree.

## Agribusiness Pathway

Agribusiness deals with the business of production, processing and distribution of agricultural products. This includes agricultural economics and business through managing risk and realizing positive returns. Students will learn to apply business strategies and economic principles to solve problems in production and distribution of agricultural goods and services. MCC's Agribusiness Management provides an interdisciplinary curriculum that integrates studies in agriculture and business management. Agribusiness will help entrepreneurial students prepare for their future agriculture business and those students who want to work in the Kansas City agribusiness industry.

## A.A.S. Agriculture – Agribusiness Pathway

Requirements: Global Agriculture, Leadership in Agriculture, General Biology, General College Chemistry, Ethics, Introduction to Agribusiness, Agribusiness Management, Agriculture Marketing

Electives: Introduction to Plant Science, Pest Management, Animal Reproduction, Animal Nutrition, Logistics Management, Legal Environment of Business, Macroeconomics, Microeconomics, Statistics

General Education Requirements: 18 hours

Total of 61 Credit Hours.







## Animal Science Pathway

Animal science focuses on animal, food, and fiber production and management. The courses encompass animal biology, breeding and genetics, nutrition, growth, behavior, and management.

Graduates are prepared to pursue careers in a variety of animal-related fields including veterinary medicine, dairy production and management, animal feed industry, biomedical research, biotechnology, wildlife conservation, and farm management.

Graduates of the program can enter the animal science workforce, start their own business, or pursue an advanced degree at the universities in veterinary science, animal production, agribusiness, biotechnology, conservation, and agriculture education.

## A.A.S. Agriculture – Animal Science Pathway


Requirements: Global Agriculture, Leadership in Agriculture, General Biology, General College Chemistry, Ethics, Introduction to Agriculture, Animal Science

Electives: Introduction to Agribusiness, Pest Management, Agribusiness Management, Meat Science, Animal Nutrition, Animal Reproduction, Veterinary Terminology, Microbiology

General Education Requirements: 18 hours


Total of 61 Credit Hours.





**“What we have produced in 240 years here in Missouri we have to produce in the next 40 years to meet demand. We can only do that through technology and education. It’s that important to the future of our region.”**

- Missouri Governor Mike Parson



Missouri is incredibly diverse in what we grow. From corn and soybeans in the north and cotton and rice in the south, all of our commodity groups work together to form one agriculture.





# AGRICULTURE INSTITUTE

## FOR MORE INFORMATION

MCC-Maple Woods  
2601 NE Barry Road  
Kansas City, Missouri 64156

**ENROLL TODAY AT [MCCKC.EDU](http://MCCKC.EDU)**

**YOUR COLLEGE.  
FUTURE.**

[mcckc.edu/programs/agriculture](http://mcckc.edu/programs/agriculture)

