

Farm and Ranch Management

Degree Type Associate in Applied Science

PROGRAM AVAILABLE FALL 2025

Contact Information: TBD

Delivery Methods: Face-to-Face: Wahpeton

The Farm Management curriculum is designed to provide the student returning to the family farm/ranch or entering a career in production agriculture with the management skills necessary to be successful.

Students will have the opportunity to apply concepts learned through hands-on activities at the NDSCS Kosel Family Agriculture Land Lab and other classroom and laboratory activities. The Land Lab is a 90-acre demonstration farm operated by the Agriculture Department, students, and industry partners.

Classroom curriculum focuses on farm management topics such as financial management, record keeping, commodity marketing, precision agriculture, crop production, plant science, and soil fertility. Courses incorporate current technologies enabling students to acquire the skills necessary to manage and operate today's farms.

Spring semester classes conclude mid-April each year allowing students to return to the home farm to assist with spring planting. During the summer, students will complete a farm record keeping internship for a hypothetical farm similar to their home farm. They will be required to collect data from their home farm such as crop mix, seed, fertilizer, chemical costs, real estate taxes, crop yields, prices received for commodities, and land costs. When they return in the fall, this data will then be plugged into the hypothetical farm and analyzed using computerized software. Each student should then have a good understanding of what a typical year might look like on their home farm.

For students who decide to continue their education, the majority of program credits earned at NDSCS will transfer into a bachelor's degree program.

Admission Requirements

The applicants must be high school graduates or equivalent. Helpful courses to prepare for this program are mathematics, physical science, biology, agricultural education, computer sciences, and English. Courses that develop communication skills are important.

Please Note: Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see www.ndscs.edu/current-students/student-success/test-center for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.

This program has a laptop requirement. Please visit <https://www.ndscs.edu/current-students/campus-buildings-services/it-service-desk-email/laptops-ndscs> for more information.

Award

Upon successful completion of the required courses, students will be awarded an Associate in Applied Science degree in Farm and Ranch Management

AG Management Core Courses (24 Credits)

Course Code	Title	Credits
AGRI 101	Science of Success: AG	1
AGEC 145	Farm Records	3
AGEC 197	Farm and Ranch Management Internship	4
AGEC 242	Introduction to Agricultural Management	3
AGEC 244	Introduction to Agricultural Marketing	3
AGEC 246	Introduction to Agricultural Finance	3
AGEC 247	Agricultural Land Resource Acquisition	2
AGEC 248	Introduction to Risk Management and Insurance	3
AGEC 297	Farm and Ranch Management Internship	2

General Education Courses (19 Credits)

Course Code	Title	Credits
ENGL 110	College Composition I	3
HPER 210	First Aid & CPR (Professional/Community)	2
PLSC 110	World Food Crops	3
SOIL 210	Introduction to Soil Science	3
COMM 110	Fundamentals of Public Speaking	3
PSYC 100	Human Relations in Organizations	2
CSCI 101	Software Apps and Digital Literacy	3

Farm and Ranch Management Electives (20 Credits)

*Please consult with your advisor on the appropriate electives/path you should take. Below are some sample curriculum paths.

Farm Management Curriculum Path

MFGT 110 Industrial Shop Practices
PAG 115 Introduction to Precision Agriculture
PAG 276 Data Collection and Management
PLSC 115 Crop Technologies
PLSC 224 Introduction to Crop Protection
PLSC 225 Principles of Crop Production
SOIL 222 Soil Fertility and Fertilizers
Agriculture Electives (Courses from the following prefixes: AGRI, AGECE, ANSC, PAG, PLSC)

Ranch Management Curriculum Path

ANSC 114 Intro to Animal Sciences
ANSC 116 Animal Reproduction
ANSC 123 Feeds and Feeding
ANSC 220 Livestock Production
ANSC 224 Applied Livestock Feeding
ANSC 236 Introduction to Range Management
ANSC 252 Large Ruminant Production
Agriculture Electives (Courses from the following prefixes: AGRI, AGECE, ANSC, PAG, PLSC)

Course Code	Title	Credits
MFGT 110	Industrial Shop Practices	2
PAG 115	Introduction to Precision Agriculture	3
PAG 276	Data Collection and Management	3
PLSC 115	Crop Technologies	2
PLSC 224	Introduction to Crop Protection	3
PLSC 225	Principles of Crop Production	3
SOIL 222	Soil Fertility and Fertilizers	3
ANSC 114	Introduction to Animal Sciences	3
ANSC 116	Animal Reproduction	3
ANSC 123	Feeds and Feeding	3
ANSC 220	Livestock Production	3
ANSC 224	Applied Livestock Feeding	3
ANSC 236	Introduction to Range Management	2
ANSC 252	Large Ruminant Production	3

