

# Early-Entry Pathway

Welcome to North Dakota State University's Early-Entry Pathways program.

## PRECISION AGRICULTURE TECHNOLOGY & MANAGEMENT

If you are interested in a degree in precision agriculture technology and management, you can take early-entry courses to get started on your degree. Early-entry courses listed meet the requirements or electives of this major. These courses may be used to meet your general education requirements as well. We suggest you also review the list of recommended general education courses.

### Introduction to Agricultural Management

AGEC 242 | 3 credits

General Education Category: Does not meet NDSU's general education requirements.

Economic and managerial concepts related to farm or agribusiness production process, development of cost data, enterprise analysis, organization and management of production inputs.

### General Chemistry I

CHEM 121 | 3 credits

General Education Category: S

### General Chemistry I Lab

CHEM 121L | 1 credit

General Education Category: S

Matter, measurement, atoms, ions, molecules, reactions, chemical calculations, thermochemistry, bonding, molecular geometry, periodicity, and gases. Prereq or Co-req: MATH 103, MATH 107, or Math placement.

### Computer Applications

CSCI 114 | 3 credits

General Education Category: S

General introduction to computer concepts, operating systems, the internet, word processing, spreadsheets, database management and presentation software. Credit awarded for CSCI 114 OR CSCI 116.

### Introduction to Precision Agriculture

PAG 115 | 2 credits

General Education Category: Does not meet NDSU's general education requirements.

Principles of precision agriculture, crop/livestock production in precision ag., GIS, GPS, sensors, drones, data acquisition & management, and remote sensing. Prereq: MATH 103.

### Business Software Applications

TL 116 | 3 credits

General Education Category: S

Instruction on the use of popular spreadsheet and database software applications including how and when to apply the features of these types of applications to address a variety of business problems. Content emphasizes leveraging widely used business tools via hands-on activities. Credit will be awarded only for TL 116, MIS 116, CSCI 114, or CSCI 116 but not more than one.

### College Algebra

MATH 103 | 3 credits

General Education Category: Does not meet NDSU's general education requirements.

Relations and functions, equations and inequalities, complex numbers; polynomial, rational, exponential and logarithmic functions; systems of equations, and matrices. Prereq: MATH 98 with a grade of C or higher or placement.

### College Composition I

ENGL 110 | 3 credits

General Education Category: C

Guided practice in the reading and writing of various genres for different situations and audiences. Includes research on the web and in the library. Prereq: English placement.

### College Composition II

ENGL 120 | 3 credits

General Education Category: C

Advanced practice in reading and writing of various genres for different situations and audiences. Includes field research, collaboration, and visual communication. Prereq: ENGL 110 or placement.

### Fundamentals of Public Speaking

COMM 110 | 3 credits

General Education Category: C

Theory and practice of public speaking with emphasis on content, organization, language, delivery, and critical evaluation of messages.

View all pathway guides & a general education guide at >>  
[bit.ly/EE\\_pathways\\_guides](http://bit.ly/EE_pathways_guides).

## OPTION

The following early-entry classes can be used for this option within the precision agriculture technology & management major at NDSU.

## AGRICULTURAL TECHNOLOGY

### Fundamentals of Agricultural Systems Management

ASM 115 | 3 credits  
General Education Category: Does not meet NDSU's general education requirements.

Overview of agricultural systems management; engines, machinery, structures, electricity, processing, and conservation. Co-req: Math 103 - Algebra.

### Fundamentals of Accounting

ACCT 102 | 3 credits  
General Education Category: Does not meet NDSU's general education requirements.

Introduces financial statements and other accounting information to make personal and business decisions. Not available to majors and accounting minors in the College of Business Administration. Student may not have previously passed or be concurrently enrolled in ACCT 201.

### Principles of Macroeconomics

ECON 202 | 3 credits  
General Education Category: B

Aggregate income and employment analysis; business cycles, unemployment, inflation and economic growth; fiscal policy; money and monetary policy; the U.S. economy and the world economy.

### Principles of Microeconomics

ECON 201 | 3 credits  
General Education Category: B

Nature, method, and scope of economic analysis; economic scarcity, resources, specialization of labor; supply-demand analysis; production and cost analysis; product and resource market structures; distribution of income; international trade.

### Elements of Accounting II

ACCT 201 | 3 credits  
General Education Category: Does not meet NDSU's general education requirements.

Emphasizes the use of accounting information as a basis for decision-making. Topics include the statement of cash flows, financial statement analysis, and managerial accounting (budgeting, job-order costing, cost-volume-profit analysis, short-term decision making, and capital budgeting). Prereq: ACCT 200.

### Intercultural Communication

COMM 216 | 3 credits  
General Education Category: B & D

Exploration of the definition, models, and verbal processes of communication between different cultural groups.

### Fundamentals of GIS

GEOG 105 | 3 credits  
General Education Category: Does not meet NDSU's general education requirements.

Basics of integration and analyses of spatial data to visualize relationships, seek explanations, and develop solutions to problems. Emphases are placed on the nature of geographic information and the ways digital methods support geographic analyses and modeling.

### Introduction to Meteorology & Climatology

SOIL 217 | 3 credits  
General Education Category: S

Basic meteorology-climatology concepts and their application; includes energy balance, greenhouse effect, temperature, pressure systems, lows, highs, fronts, winds, clouds, storms, humidity, precipitation, and measurements.

## MINOR

The following early-entry classes can be used toward this precision agriculture minor.

## PRECISION AGRICULTURE

### Fundamentals of GIS

GEOG 105 | 3 credits  
General Education Category: Does not meet NDSU's general education requirements.

Basics of integration and analyses of spatial data to visualize relationships, seek explanations, and develop solutions to problems. Emphases are placed on the nature of geographic information and the ways digital methods support geographic analyses and modeling.

### Introduction to Meteorology & Climatology

SOIL 217 | 3 credits  
General Education Category: S

Basic meteorology-climatology concepts and their application; includes energy balance, greenhouse effect, temperature, pressure systems, lows, highs, fronts, winds, clouds, storms, humidity, precipitation, and measurements.