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: A & D

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.

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
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.