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

MICROBIOLOGY
If you are interested in a degree in microbiology, 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.

**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 only for CSCI 114 or CSCI/MIS/TL 116, not both.

**Calculus I**
MATH 165  |  4 credits
General Education Category: R

Limits, continuity, differentiation, Mean Value Theorem, integration, Fundamental Theorem of Calculus and applications. Prereq: MATH 105, MATH 107 or placement.

**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.

**General Chemistry II**
CHEM 122  |  3 credits
General Education Category: S

Intermolecular forces, liquids, solids, kinetics, equilibria, acids and bases, solution chemistry, precipitation, thermodynamics, and electrochemistry. Prereq: CHEM 121.

**Introductory Statistics**
STATS 330  |  3 credits
General Education Category: Does not meet NDSU’s general education requirements.

Frequency tables, histograms, probability, well-known probability distributions, one and two sample tests of hypotheses, confidence intervals, and contingency tables. Prereq: Algebra 2, MATH 103, MATH 104 or MATH 107 or Math placement into MATH 105, MATH 146 or MATH 165.

**General Education Category:**

**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.

**Contemporary Moral Issues**
PHIL 215  |  3 credits
Category: A & D

Many contemporary moral issues, such as the developed world’s duties to the developing world, war, ethical technology, and gender issues are examined in light of the major ethical theories, such as Utilitarianism, Kantianism, and Relativism.

**Business Ethics**
PHIL 216  |  3 credits
Category: A & G

Many of the central moral issues of business, such as consumer rights, advertising, employee rights, and business competition, are examined in light of the major ethical theories, such as Utilitarianism, Kantianism, and Relativism.

**Trigonometry**
MATH 105  |  3 credits
Category: Does not meet NDSU’s general education requirements.

Angle measure, trigonometric and inverse trigonometric functions, trigonometric identities and equations, polar coordinates and applications. Prereq: MATH 103 or placement. Credit awarded only for MATH 105 or MATH 107, not both.

View all pathway guides & a general education guide at >>