

# 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.

### 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.

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