

Early-Entry Pathway

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

CONSTRUCTION ENGINEERING

If you are interested in a degree in construction engineering, you can take early-entry courses to get started on this 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.

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.

Engineering Mechanics I

ME 221 | 3 credits
General Education Category: Does not meet NDSU's general education requirements.

Scalar and vector approaches to trusses, frames and machines, internal forces, friction forces, center of gravity, centroid, and moment inertia. Prereq: MATH 165.

Engineering Mechanics II

ME 222 | 3 credits
General Education Category: Does not meet NDSU's general education requirements.

Dynamics of particles and rigid bodies, work energy, impulse-momentum, principles of conservation of energy and momentum. Prereq: ME 221, MATH 166.

Mechanics of Materials

ME 223 | 3 credits
General Education Category: Does not meet NDSU's general education requirements.

Introduction to stress, strain, and their relationships; torsion of circular shafts, bending stresses, deflection of beams, stress transformations. Prereq: ME 221.

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, MATH 107 OR placement into MATH 105, MATH 146, MATH 165.

The Earth Through Time

GEOL 106 | 3 credits
Category: S

Introduction to the Earth through time; its origin, history, and evolution of animal and plant life.

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View all pathway guides & a general education guide at >>
bit.ly/EE_pathways_guides.

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.

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.

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