College of Agriculture, Food Systems, and Natural Resources

Hundreds of careers
Limitless opportunity
Expert instruction, state-of-the-art facilities and hands-on teaching methods help prepare our graduates for the career and future they want.

We can do the same for you.

Read on to see what career options may appeal to you.
Protecting the environment
- Agricultural Engineer
- Aquaculturist
- Biochemist
- Conservation Officer
- Entomologist
- Environmental Consultant
- Environmental Educator
- Environmental Engineer
- Environmental Technician
- Fisheries Technician
- Fish and Wildlife Specialist
- Forester
- Horticulturist
- Hydrologist
- Microbiologist
- Natural Resources Technician
- Nature Interpreter
- Park Ranger
- Soil and Water Engineer
- Soil Chemist
- Soil Conservationist
- Soil Scientist
- Waste Management Specialist
- Wetland Scientist
- Wildlife Rehabilitator
- Wildlife Technician

Working with food
- Chemist
- Dairy Quality Assurance Officer
- Food Broker
- Food Sales Representative
- Food Scientist
- Food Technologist
- Grain Merchandiser
- Horticulturist
- Labeling Specialist
- Meat Quality Assurance Officer
- Microbiologist
- Nutritionist
- Processing Plant Manager
- Quality Control Manager
- Recipe Modification Specialist
- Sensory Analyst

Working in health professions
- Biochemist
- Chemist
- Doctor
- Geneticist
- Medical Technologist
- Microbiologist
- Nurse
- Nutritionist
- Pharmacist
- Physical Therapist
- Veterinarian
- Veterinary Technician

Working in business
- Accountant
- Advertising Agent
- Ag Loan Officer
- Agribusiness Manager
- Agricultural Salesperson
- Business Manager
- Commodity Broker
- Computer Systems Analyst
- Credit Analyst
- Economist
- Export Marketer
- Extension Specialist
- Farm Management Consultant
- Financial Analyst
- Food Broker
- Food Inspector
- Food Sales Representative
- Grain Merchandiser
- Horticulturist
- Insurance Agent
- Lawyer
- Livestock Buyer
- Livestock Production Specialist
- Market Analyst
- Marketing Manager
- Public Relations Specialist
- Quality Control Specialist
- Real Estate Appraiser
- Retail Manager
- Rural Development Specialist
- Sales Representative
- Securities Broker
- Technical Service Representative
- Wholesale Manager
Career Options

Working in science
- Agronomist
- Animal Ecologist
- Animal Nutritionist
- Animal Scientist
- Aquaculturist
- Biochemist
- Chemist
- Doctor
- Entomologist
- Environmental Engineer
- Environmental Technician
- Fisheries Technician
- Fish and Wildlife Specialist
- Food Scientist
- Food Technologist
- Forester
- Geneticist
- Horticulturist
- Hydrologist
- Microbiologist
- Natural Resources Technician
- Nutritionist
- Ornithologist
- Plant Breeder
- Plant Ecologist
- Plant Pathologist
- Plant Physiologist
- Science Writer
- Seed Scientist
- Soil and Water Engineer
- Soil Scientist
- Veterinarian
- Veterinary Technician
- Weed Scientist
- Wetland Scientist
- Wildlife Technician

Working with people
- Advertising Executive
- Agricultural Educator
- Agricultural Journalist
- Broadcaster
- Communication Specialist
- Copywriter
- Doctor
- Economist
- Editor
- Extension Specialist
- Farm Management Consultant
- Horticulturist
- Lawyer
- Market Analyst
- Marketing Manager
- Nutritionist
- Park Ranger
- Public Administration Specialist
- Public Policy Analyst
- Public Relations Specialist
- Rural Development Specialist
- Rural Sociologist
- Sales Representative
- Science Writer
- Veterinary Technician
- Videographer

Working with animals
- Animal Ecologist
- Animal Nutritionist
- Animal Scientist
- Aquaculturist
- Biochemist
- Chemist
- Dairy Farmer
- Entomologist
- Fisheries Technician
- Geneticist
- Kennel Manager
- Livestock Producer
- Livestock Product Sales
- Microbiologist
- Nutrition Consultant
- Ornithologist
- Public Administration Specialist
- Public Relations Specialist
- Rural Development Specialist
- Rural Sociologist
- Sales Representative
- Science Writer
- Veterinary Technician
- Videographer
- Zoologist
Opportunities abound as you check out the undergraduate academic programs offered through the College of Agriculture, Food Systems, and Natural Resources.

These programs are the first step toward getting the career you want.

After reading the information, feel free to discuss the program with an adviser in that field. They will be happy to answer your questions and get you started on the right track.

**AGRIBUSINESS** prepares students to manage agricultural and agriculture-related businesses. The major offers training in finance, management, marketing and policy/trade in agriculture and food systems.

  Jennifer Carney  (701) 231-7442  
  jennifer.carney@ndsu.edu

**AGRICULTURAL ECONOMICS** focuses on the business aspects of agriculture — marketing, management and finance.

  Jennifer Carney  (701) 231-7442  
  jennifer.carney@ndsu.edu

**AGRICULTURAL SYSTEMS MANAGEMENT** teaches students the skills to market, select and service technical equipment, precision agricultural technologies and facilities for producing, handling, storing and distributing agricultural products (food, feed, fiber, renewable fuels) and for resource management (irrigation, water conservation, erosion control, agricultural data processing systems).

  Matt Olhoft  (701) 231-7269  
  matthew.olhoft@ndsu.edu

**ANIMAL SCIENCE** encompasses the biological principles, management practices and business concepts that pertain to all managed animals including livestock and animal products and the ecological relationships between livestock and the environment.

  Marc Bauer  (701) 231-7691  
  marc.bauer@ndsu.edu

**BIOTECHNOLOGY** combines biology, biochemistry, genetics and new technologies to prepare students to produce plants, animals and microorganisms with improved characteristics; use DNA for gene cloning and transfer among organisms; and develop pharmaceuticals, disease tests, feed additives, enzymes and hormones.

  Rebekah Oliver  (701) 231-8892  
  rebekah.oliver@ndsu.edu

**CROP AND WEED SCIENCES** teaches students about scientific methods of improving and protecting grain and forage crops to increase food production through genetics, weed control, plant breeding and biotechnology.

  Kirk Howatt  (701) 231-7209  
  kirk.howatt@ndsu.edu
ECONOMICS focuses on the production, distribution and consumption of goods and services, theories and management of economic systems and issues such as globalization, employment, economic growth, natural resource management and market regulation.

Jennifer Carney  (701) 231-7442  
jenifer.carney@ndsu.edu

EQUINE SCIENCE teaches students to care for horses and horse equipment; ride and drive horses for leisure, sport, show and professional purposes; and train horses and riders. It includes courses on nutrition, health, safety, business concepts and management practices.

Carrie Hammer  (701) 231-5682  
carrie.hammer@ndsu.edu

FOOD SCIENCE is the study of the biology, chemistry and technology to convert raw agricultural products into processed foods that are convenient to use, safe and nutritious and taste good.

Anuradha Vegi  (701) 231-6240  
anuradha.vegi@ndsu.edu

GENERAL AGRICULTURE provides a broad background in agriculture for students who are exploring majors in the field and those who want to develop a broad study program to meet specific career goals.

David Buchanan  (701) 231-7426  
david.s.buchanan@ndsu.edu

HORTICULTURE teaches students about the science of production, processing, use and management of fruit, vegetable, turf, and ornamental crops. Horticulture is an important aspect of our everyday lives and prepares students with academic options in science, business and production, landscape design, landscape management, sports and urban turfgrass management or urban forestry.

Todd West  (701) 231-6476  
todd.p.west@ndsu.edu

MICROBIOLOGY is the study of bacteria, viruses and other microbes that are important to animal and human health, the environment, food technology and safety, and the biotechnology industry.

John McEvoy  (701) 231-8530  
john.mcevoy@ndsu.edu

NATURAL RESOURCES MANAGEMENT provides students with a broad background in biological, social and physical/earth sciences, which prepares them to manage and protect the Earth’s natural resources and ecosystems.

Shawn DeKeyser  (701) 231-8180  
edward.dekeyser@ndsu.edu

PRE-AGRICULTURAL EDUCATION allows students to complete preparatory work for a degree in agricultural education.

Adam Marx  (701) 231-7439  
adam.marx@ndsu.edu
PRE-VETERINARY MEDICINE allows students to complete all the requirements they need to be admitted to any veterinary college in the U.S., Canada and some foreign countries.

Carrie Hammer  (701) 231-5682  
carrie.hammer@ndsue.edu

Lisa Christenson  (701) 231-6304  
lisa.christenson@ndsue.edu

PRECISION AGRICULTURE provides an in-depth education in sciences, technologies and practices by training students in mapping, data collection and management, cloud computing, unmanned aerial systems, sensors, robotics, variable rate machinery, farm management, precision agriculture software, telematics and communication technologies.

Shafiqur Rahman  (701) 231-7336  
s.rahman@ndsue.edu

RANGE SCIENCE teaches the conservation and management of sustainable ecosystems for livestock and wildlife production, as well as for clean water, recreation and aesthetic purposes.

Ryan Limb  (701) 231-5828  
ryan.limb@ndsue.edu

SOIL SCIENCE teaches students about the importance of soil chemical, physical, and biological properties and how they impact the growth of agricultural and native plants, and contribute to environmental health.

Tom DeSutter  (701) 231-8690  
thomas.desutter@ndsue.edu

VETERINARY TECHNOLOGY provides classroom instruction, clinical experience and a professional internship that prepares students for a career in animal health care.

Stacey Ostby  (701) 231-7742  
stacey.ostby@ndsue.edu

For more information about the academic programs listed above, visit the Web at www.ndsu.edu/majors.

Additional Opportunities

A major in agricultural communication is available through the NDSU College of Arts, Humanities and Social Sciences. A major in agricultural education is available through the NDSU College of Human Development and Education. A major in agricultural engineering is available through the NDSU College of Engineering.

Graduate Study

Opportunities to study for a master’s or doctoral degree are available in many of the programs included in this booklet as well as cellular and molecular biology, cereal science, entomology, genomics and bioinformatics, international agribusiness, molecular pathogenesis, plant sciences and plant pathology.
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