

AG, FOOD, & NATURAL RESOURCES



SCOTTSBLUFF HIGH SCHOOL

CAREER ACADEMY



PATHWAYS

- AGRIBUSINESS
- ANIMAL & VETERINARY SCIENCE
- PLANT AND ENVIRONMENTAL SCIENCE
- POWER, STRUCTURAL & TECH SYSTEMS
- WELDING

Make an Impact by Feeding the World!

Are you an individual that likes innovation and working in an ever-changing environment? Do you like working outdoors and with your hands? Do you possess strong initiative and work ethic, problem solving skills, strong science and math skills, interpersonal skills, and an interest in production? Do you like working with animals, researching new products, growing food, or working on production machinery? If any of these characteristics sound like you, then the Agriculture, Food, and Natural Resources Academy may be the right fit for you.

Scottsbluff High School
308.635.6200
www.sbbs.net/shs



QUICK FACTS

RELATED EDUCATIONAL PROGRAMS
AT WNCC, EWC, or Nebraska
College Technical Agriculture:

Vet Medicine, Vet Tech, Vet Assistant,
Welding Tech, Ag Business Forestry
Technician, Diesel-Ag Service Tech, Ag
Education

ESTIMATED DUAL-CREDIT COSTS:

- No cost for dual-credit classes taught at SHS by an SHS instructor
- Dual-credit classes taught at WNCC or at SHS by a WNCC instructor:
 - If school requires this class as part of a Career Academy, then no cost to student
 - If not school required, then student pays half of normal credit-hour tuition
- Textbooks will be issued by SBPS for all dual-credit classes and will remain property of SBPS

OTHER COLLEGES OR POST-SECONDARY OPTIONS:

- Chadron State College
- University of Nebraska-Lincoln
- University of Wyoming
- Nebraska/Wyoming Community Colleges
- Nebraska College of Technical Agriculture

CAREER-BASED CERTIFICATIONS: Welding, HAZWOPER, and OSHA

AVERAGE SALARY:

Based on local businesses,
starting wages for WNCC
graduates in this industry range
from \$10.00 to \$30.00 per hour.

Combined Non-Discrimination Notice

The Scottsbluff Public School District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following people have been designated to handle inquiries regarding the non-discrimination policies: Dr. Andrew Dick, Superintendent or Wendy Kemling, Executive Director of Student Services, 1722 1st Ave. Scottsbluff, NE 69361 308-635-6200

OVERVIEW



Agriculture, Food, and Natural Resources is a field of study with a wide range of opportunities. These opportunities include manufacturing, managing land and resources, animal health, design and engineering, retail management, buying and selling livestock, or managing/owning your own business. The Ag, Food, and Natural Resources field is one of the largest growing industries with the largest variety of occupations in the world.

STUDENT CLUBS/ ORGANIZATIONS



STUDENT EXPERIENCE & PROJECTS

Students enrolled in the Ag, Food, and Natural Resources Academy will have the opportunity to participate in a project-based, student-driven atmosphere. Students will research agricultural careers, participate in field trips, and take part in FFA activities. Students will have certification opportunities, participate in internships and job shadowing, and perform a variety of hands-on activities. Students will work closely with the community and take college-level courses while enrolled in the Agriculture, Food, and Natural Resources Academy.



INTERNSHIP



Senior students enrolled in the AFNR Pathways have the opportunity to take part in Internships with many local businesses.

FOLLOW THE PATH THAT'S RIGHT FOR YOU



Grade 9

Pre-Career Academy Courses

- Introduction to Agriculture, Food & Natural Resources



Grade 10

Pre-Career Academy Courses

- Basic Welding (PST Path)
- Animal Biology (AB or AVS Path)
- Plant Sciences (PES Path)



Grade 11

Foundational Career Academy Courses (30 Credits)

- Environmental Science, Chemistry, Anatomy & Physiology, Physics, or Conceptual Physics
- Tech Math, Algebra II or higher*
- Pathway Options (must select 2 based on interest and prerequisites)
 - Animal Biology/Large Animal Management/Equine Science/Small Animal Management/Veterinary Science/Wildlife Management (AVS/AB Path)
 - Metal & Fabrication/Advanced Metal & Fabrication/Power Structure & Tech (PST Path)
 - Advanced Welding
 - Plant Science/Horticulture/Agronomy (PES/AB Path)
 - Marketing (ABS Path)



Grade 12

Specialized Academy Pathway (select 30 credits from Pathway of emphasis)

Agribusiness (ABS) Pathway

- Principles of Microeconomics (ECON 2120)
- Principles of Macroeconomics (ECON 2110)
- Principles of Marketing (BSAD 2520)
- English Comp 1 (ENGL 1010)*
- English Comp 2 (ENGL 1020)*
- Ag Leadership or Ag Elective
- Internship

Ag Machinery (AM) Pathway

- Tech Math or higher*
- Workplace Writing
- Advanced Metals Fabrication
- Ag Leadership
- Internship

Welding Pathway (WELD)

See welding section in registration guide

Animal and Vet Science (AVS) Pathway

- Equine Science
- Vet Science
- Ag Leadership
- Chemistry or AP Chemistry
- Anatomy & Physiology
- AP Precalculus or higher*
- General Biology (BIOS 1010)
- General Zoology (BIOS 1380)
- Microbiology (BIOS 2460)
- Wildlife Management
- CASNR
- NCTA
- Internship

Plant & Environmental Science Pathway

- Wildlife Management
- Horticulture or Agronomy
- Ag Leadership
- Chemistry or AP Chemistry
- General Biology (BIOS 1010)
- Microbiology (BIOS 2460)
- General Zoology (BIOS 1380)
- Internship

*At the Foundational or Specialized Level identified courses may be substituted with counselor or administrative approval and based on student's academic readiness. *NCTA and CASNR courses may vary based on college offerings.

CAREERS IN AG, FOOD & NATURAL RESOURCES

Example Careers:

- Ag Food Science Technician and Management
- Pesticide Handler
- Greenhouse Nursery Management
- Vet-Tech/Assistant
- Livestock Management
- Ag Mechanic and Equipment Technician
- Ag Production Operator
- Ag Business Operations Management Technician
- Ag Public Services
- Farm/Ranch Management
- Livestock Purchasing and Wholesaling
- Irrigation Technician
- Ag/Farm Supplies Retail and Wholesale
- Management Certified Welder
- Aquaculture Technician
- Agro Ecology and Sustainable Agriculture
- Forrester
- Soil and Water Conservationist
- Plant Scientist
- Food Scientist
- Ag Engineer
- Ag Animal Breeding, Health and Nutrition
- Veterinarian
- Agriculture and Extension Agents
- Veterinarian Pharmaceutical Sales
- Ag Broker
- Animal Nutritionist
- Game and Park Management
- Landscape/Floral
- Designer
- Rangeland Manager
- Ag Facilities Design Assistant
- Welding Tech
- Diesel Technician
- Ag Business and Technical Management
- Construction and Forestry Technician
- Diesel-Ag Service Tech
- Ag Education
- Animal Science
- Grazing Livestock
- Beef Production
- Livestock Management
- Equine Training and Management
- Horticulture
- Ag Equipment Management
- Agroecology/Agronomy
- Farm and Ranch Management
- Rangeland Ecology and Watershed Management
- Wind Energy



STAY HERE FOR A REWARDING CAREER!

These local businesses provide careers in Ag, Food & Natural Resources:

- Pioneer Animal Clinic
- Midtown Animal Clinic
- Independent Ag Producers
- AHI Pharmaceutical Sales
- Riverside Discovery Center
- Walker Farms
- Platte Valley Livestock
- WESTCO
- University of Nebraska Panhandle Research and Extension Center
- Panhandle Coop
- Inland Truck Parts and Service
- Soil Conservation Service
- Kelley Bean
- Western Sugar Cooperative
- Nebraska Forest Service
- City and State Game and Parks
- Simplot Soilbuilders
- Aulick Industries
- 21st Century Equipment
- Horizonwest Inc.
- Sandberg Implement
- Kawasaki
- Celli's Cycle Center
- Platte Valley Companies
- Western States Bank
- First National Bank
- US Bank
- Marketing Consultants
- New Horizons Consulting
- Farm Credit Services of America
- Scottsbluff Bean and Elevator
- Merck Pharmaceutical Sales
- Nebraska Wind & Solar
- North Platte NRD
- Nebraska Machinery
- Floyd's Sales & Service
- Murphy Tractor & Equipment
- Mitchell Valley Animal Hospital
- Peaceful Prairie Nursery

SHS DIESEL TECH PROGRAM



This new and innovative program provides students with fundamental diesel systems theory, service and repair. It will introduce the operational and scientific nature of diesel systems. It will provide students with a basic knowledge of diesel systems and operating principles. The repair, maintenance and diagnostic procedures will enhance students awareness of the applications of scientific principles. The students will study the technological nature of diesel-powered equipment. The course serves as a prerequisite for the internship and apprentice programs as well as WNCC Diesel, and the Truck and Heavy Equipment Program. For students in grades 11-12.