

Pathway	OCCUPATIONS RELATING TO THIS CAREER CLUSTER
<b>Agribusiness Systems</b>	Sales Manager • Ag Lender • Ag Economist • Ag Products Buyer/Distributor • Feed-Supply Store Manager • Farm Investment Manager • Ag Commodity Broker
<b>Animal Systems</b>	Wildlife Biologist • Animal Nutritionist • Livestock Buyer • Livestock Geneticist • Veterinarian • USDA Inspector • Aquaculturist • Equine Manager
<b>Environmental Service Systems</b>	Pollution Prevention Technician • Hazardous Materials Handler • Water Quality Manager • Health and Safety Sanitarian • Toxicologist
<b>Food Products &amp; Processing Systems</b>	Food Scientist • Quality Control Specialist • Biochemist-Nutritionist • Dietician • Microbiologist • Bacteriologist • Food and Fiber Engineer • Produce Buyer
<b>Natural Resources Systems</b>	Park Manager • Range Technician • Ecologist • Fish & Game Officer • Forest Technician • Geology Technician • Mining Engineers • Hydrologist
<b>Plant Systems</b>	Soil/Water Specialist • Botanist • Tree Surgeon • Plant Pathologist • Commodity Marketing Specialist • Golf Course Superintendent • Custom Hay/Silage Operator
<b>Power, Structural &amp; Technical Systems</b>	Remote Sensing Specialist • Equipment/Parts Manager • Welder • GPS Technician • Machinist • Heavy Equipment Maintenance Technician



Agriculture, Food & Natural Resources Career Cluster	
Environmental Services Systems or Plant Systems	
Course Name	Cr
Intro to Agriculture	.5
Plant Science I	.5
Plant Science II	.5
World & International Agriculture	.5
Cooperative Education	.5
Students must earn at least 2 credits in a CTE pathway and 2 additional CTE credits to qualify for the CTE Scholarship	

### *Is this Pathway for you?*

- Do you get satisfaction from helping people, animals and/or the environment?
- Are you interested in how things grow and make the best use of the earth's natural resources?
- Are you curious about how machines and systems work?
- Are you someone who likes to work with data to solve problems?
- Are you interested in science and enjoy spending time with nature?
- Do you like to be outdoors in all kind of weather?
- Are you comfortable with situations that are unpredictable and rapidly changing?
- Do you like to plan, work with budgets, and keep records?

Other Electives to Consider for Agriculture Pathway Preparation
<p><b>CTE Electives</b></p> <p>Computer Applications, Web Design            Business and Personal Finance, Accounting I            Marketing, Management/Entrepreneurship            Discovering Foods, Culinary Academy            Civil Engineering &amp; Architecture            Intro to Engineering Design, Principles of Engineering            Automated Manufacturing            Woods I, II            Welding I, II</p> <p><b>Academic Electives</b></p> <p>Foreign Language            AP Biology, Anatomy/Physiology            Environmental Science            Genetics, Earth Science, Field Biology</p>



### North Dakota Agriculture, Food & Natural Resources Related Postsecondary Programs

Pathway	Certificate or Associate's Degree	Bachelor's Degree	Master's Degree or More
<b>Agribusiness Systems</b>	<input type="checkbox"/> Agriculture (BSC, DCB, NDSCS) <input type="checkbox"/> Agricultural Sales and Service (DSU) <input type="checkbox"/> Agriculture transfer (BSC, DCB, NDSCS, WSC) <input type="checkbox"/> Farm/Ranch Management (BSC, DSU, NDSCS) <input type="checkbox"/> Precision Agriculture (LRSC)	<input type="checkbox"/> Agribusiness (NDSU, VCSU) <input type="checkbox"/> Agricultural and Biosystems Engineering (NDSU) <input type="checkbox"/> Agricultural Communication (NDSU) <input type="checkbox"/> Agricultural Economics (NDSU) <input type="checkbox"/> Agricultural Education (NDSU) <input type="checkbox"/> Agricultural Studies (DSU) <input type="checkbox"/> Agricultural Systems Management (NDSU) <input type="checkbox"/> General Agriculture (NDSU)	<input type="checkbox"/> Agribusiness and Applied Economics (NDSU) <input type="checkbox"/> Agricultural and Biosystems Engineering (NDSU) <input type="checkbox"/> Agricultural Education (NDSU) <input type="checkbox"/> International Agribusiness (NDSU)
<b>Animal Systems</b>	<input type="checkbox"/> Animal Science (NDSCS) <input type="checkbox"/> Pre-Veterinary Medicine transfer (BSC, DCB, TMCC) <input type="checkbox"/> Wildlife Management (DCB, NDSCS, TMCC)	<input type="checkbox"/> Animal Science (NDSU) <input type="checkbox"/> Equine Science (NDSU) <input type="checkbox"/> Fisheries and Wildlife Science (UND, VCSU) <input type="checkbox"/> Vet Technology (NDSU)	<input type="checkbox"/> Animal Science (NDSU)
<b>Environmental Service Systems</b>	<input type="checkbox"/> Energy Technician (SBC) <input type="checkbox"/> Environmental Science/Technology (CCCC, DCB, NHSC, SBC, TMCC, UTTC) <input type="checkbox"/> Water & Wastewater Treatment (BSC)	<input type="checkbox"/> Energy Management (BSC) <input type="checkbox"/> Environmental Design (NDSU) <input type="checkbox"/> Environmental Science (DSU, NHSC, SBC)	<input type="checkbox"/> Environmental and Conservation Science (NDSU) <input type="checkbox"/> Environmental Science (SBC) <input type="checkbox"/> Environmental Engineering (NDSU, UND)
<b>Food Products &amp; Processing Systems</b>		<input type="checkbox"/> Food Safety (NDSU) <input type="checkbox"/> Food Science (NDSU)	<input type="checkbox"/> Cereal Science (NDSU) <input type="checkbox"/> Food Safety (NDSU)
<b>Natural Resources Systems</b>	<input type="checkbox"/> Land Management (DCB) <input type="checkbox"/> Natural Resources Management (CCCC)	<input type="checkbox"/> Natural Resources Management (NDSU)	<input type="checkbox"/> Natural Resources Management (NDSU) <input type="checkbox"/> Sustainable Energy Engineering (UND)
<b>Plant Systems</b>	<input type="checkbox"/> Agriculture Industry and Technology-Agronomy (BSC) <input type="checkbox"/> Crop Production Sales & Technology (NDSCS) <input type="checkbox"/> Forestry (DCB) <input type="checkbox"/> Horticulture (DCB) <input type="checkbox"/> Sustainable Vegetable Production (DCB)	<input type="checkbox"/> Botany (NDSU) <input type="checkbox"/> Crop and Weed Sciences (NDSU) <input type="checkbox"/> Horticulture (NDSU) <input type="checkbox"/> Range Science (NDSU) <input type="checkbox"/> Soil Science (NDSU) <input type="checkbox"/> Sports and Urban Turfgrass Management (NDSU)	<input type="checkbox"/> Botany (NDSU) <input type="checkbox"/> Horticulture (NDSU) <input type="checkbox"/> Plant Pathology (NDSU) <input type="checkbox"/> Plant Sciences (NDSU) <input type="checkbox"/> Range Science (NDSU) <input type="checkbox"/> Soil Science (NDSU)
<b>Power, Structure, &amp; Technical Systems</b>	<input type="checkbox"/> Caterpillar Dealer Service Technician (NDSCS) <input type="checkbox"/> Diesel Technology: Case IH, Gen. Diesel, Komatsu (NDSCS) <input type="checkbox"/> John Deere Tech (NDSCS) <input type="checkbox"/> Nuclear Power Technology (BSC) <input type="checkbox"/> Oil Drilling/Operations (NHSC, SBC, TMCC) <input type="checkbox"/> Petroleum Engineering Technology (BSC) <input type="checkbox"/> Petroleum Production Technology (BSC, WSC) <input type="checkbox"/> Power Plant Technology (BSC) <input type="checkbox"/> Process Plant Technology (BSC, TMCC) <input type="checkbox"/> Renewable Generation Technology (BSC) <input type="checkbox"/> Wind Energy Technician (LRSC)	<input type="checkbox"/> Energy Management (BSC)	



The National FFA Organization is a local, state, and national co-curricular student association serving high school, college and middle school students enrolled in Agriculture Education courses. The National FFA is dedicated to making a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education. Fargo students enrolled in agriculture courses in collaboration with Northern Cass or Central Cass Agriculture Education will have the opportunity to participate in the National FFA Chapter. Contact your FFA Advisor to join.