



Agriculture, Food, and Natural Resources Career Pathway

<Name of Region>

2023-2025



EXPLORE: Click on the links to find the job titles that seem most interesting to you to learn more! Save any jobs you are interested in from this career pathway in your XELLO account so that you can create an Academic and Career Plan (ACP) later on.

Educational Level May also require work experience	Agribusiness Systems	Animal Systems	Biotechnology Systems	Environmental & Natural Resource Systems	Food Products & Processing Systems	Plant Systems	Power, Structural, & Technical Systems
High School Diploma, Certification	<ul style="list-style-type: none"> ● Farm Operations Manager ○* ● Auctioneer ○ ● Office Manager <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● NonFarm Animal Caretakers ○* ● Farmworkers, Farm, Ranch, Aquaculture Animal Workers ○* ● Pet groomer ○ <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Data Processor * ● Research Assistant ● Specimen Collector <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Environmental Systems Fuel Transporter ● Forest and Conservation Workers ● Water and Wastewater Treatment Plant Worker ○* <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Production Technician ● Material Handler ● Slaughter Processor * <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Farmworkers, Crops, Nursery, Greenhouse Workers * ● Pest Control Workers ○ ● Landscaper ○ <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Agricultural Equipment Operator * ● Truck Driver ○* ● Parts Sales Specialist <p>Range \$xxx,xxx-xxx,xxx</p>
Certification or Technical Diploma	<ul style="list-style-type: none"> ● Spanish Translation Coordinator * <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Artificial Insemination Technician ● Farrier ● Livestock Hauler * <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Biotechnology Lab Technical Assistant ● Research Technician <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Sanitation Coordinator ● Propane and Fuel Transporter <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Lab Technician ● Sanitation Processor ● Evisceration Processor ○ <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Soil Testing Technician ● Custom Applicator * ● Crop Scout <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Service Technician ○* ● Diesel Mechanic ○* ● Welder ○* <p>Range \$xxx,xxx-xxx,xxx</p>
Registered Apprenticeship		<ul style="list-style-type: none"> ● Dairy Grazier <p>Range \$xxx,xxx-xxx,xxx</p>		<ul style="list-style-type: none"> ● Wastewater Treatment Plant Operator ○* ● Arborist ○ ● Environmental Systems Technician and HVAC Installer Technician * <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Maintenance Mechanic/Journeyworker <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Organic Vegetable Farm Manager <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Heavy Equipment Operator and Operating Engineer ○* ● Maintenance Technician * ● Welder-Fabricator ○* <p>Range \$xxx,xxx-xxx,xxx</p>
Associate Degree	<ul style="list-style-type: none"> ● Supply Chain Associate * ● Agricultural Salesperson ● Agricultural Information Technology Programmer * <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Veterinary Technician ○* ● Breeding Manager ○ ● Companion Animal Trainer <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Biotechnology Research Associate * ● Biotechnology Laboratory Technician ● BioFuels Technician <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Environmental Protection Technician * ● Forest and Conservation Technician ○ ● Environmental Engineering Technologist <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Quality Assurance Specialist ● HACCP Coordinator ● Storage and Hygiene Coordinator <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Seed Sales ● Nutrient Manager ● Shipping Coordinator * <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Service Manager ● Fabrication Technician * ● Power Systems Engineer * <p>Range \$xxx,xxx-xxx,xxx</p>
Bachelor Degree and beyond	<ul style="list-style-type: none"> ● Agricultural Marketer/Communicator ● Agricultural Lender ● Agricultural Educator ○* ● Agricultural Lawyer <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Feed Specialist/Nutritionist * ● Geneticist ○ ● Veterinarian ○* <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Geneticist ○ ● Embryologist ● Biochemist ○ <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Environmental Manager ● Environmental Engineer ○ ● Forester ○ ● Water/Wastewater Engineer ○ <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Food Scientist ○ ● Meat Inspector ○* ● Supply Chain Coordinator * <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Precision Agriculture Specialist * ● Safety Specialist ● Crop Specialist/Agronomist ○* <p>Range \$xxx,xxx-xxx,xxx</p>	<ul style="list-style-type: none"> ● Precision Equipment Specialist * ● Agricultural Engineer ○* ● Geographic Information System Specialist ○* <p>Range \$xxx,xxx-xxx,xxx</p>
Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options

* BRIGHT OUTLOOK = these jobs are expected to grow in the future – which means more opportunities for you! ○ XELLO = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)
 Note: Educational requirements for some jobs may vary based on individual employer requirements



Agriculture, Food, and Natural Resources Career Pathway In High School



A career pathway in high school must include:

- A sequence of courses (including at least 2 CTE courses)
- Two of the following components: *Career and Technical Student Organization, Work-based Learning, Industry Recognized Credential, College Credit Opportunity*

Career and Technical Education Courses	Must include a sequence of at least TWO Career and Technical Education courses. Should align with CTE standards for the pathway:						CAREER EXPLORATION PROGRAMS
Additional Employer Recommended Courses	Should align with CTE standards for this pathway:						State:
Career and Technical Student Organization	Wisconsin FFA Organization National FFA Organization						Regional:
Work-Based Learning Program Options	<ul style="list-style-type: none"> • Supervised Agricultural Experiences that meet state quality requirements • Employability Skills (90 hrs) • Youth Apprenticeship (450 hrs/year; 1-2 years) 						Local:
Industry Recognized Credential Options Learn the skills that employers want to see! <i>Italics = must be 18 years old to obtain</i> Certifications eligible for reimbursement through the technical incentive grant	Agribusiness Systems	Animal Systems	Biotechnology Systems	Environmental & Natural Resource Systems	Food Products & Processing Systems	Plant Systems	Power, Structural, & Technical Systems
	OSHA 10 For General Industry						
	Microsoft Office Suite Center for Financial Responsibility Personal Financial Literacy Certification	Artificial Insemination Certificate Youth for Quality Care of Animals Certificate Elanco Fundamentals of Animal Science Certification Elanco Veterinary Medical Applications Certification NHJTCA Equine Management & Evaluation Certification Beef Quality Assurance Certificate Pork Quality Assurance Certificate	Biotechnician Assistant Credentialing Exam	Ducks Unlimited Ecology Conservation & Management Certification Hunter Education Certificate Boating Safety Certificate ATV Safety Certificate Safety and Wood Worker Training Program	FaSAFE Certification AMSA Food Safety & Science Certification AMSA Meat Evaluation Certification	Pesticide Applicators Certification BASF Plant Science Certification Horticultural Certification (SnapOn) Landscape Technician Certification - National Association of Landscape Professionals Master Gardener	Multimeter Certification Precision Measuring Certification EETC Principles of Small Engine Technology Certification Wisconsin Youth Tractor & Machinery Safety Certification
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .						



Career and Technical Education Courses	Must include a sequence of at least TWO Career and Technical Education courses. Should align with CTE standards for the pathway: <ul style="list-style-type: none"> • CTE Course #1 • CTE Course #2 • CTE Course #3 						CAREER EXPLORATION PROGRAMS
Additional Employer Recommended Courses	Should align with CTE Standards for this pathway: <ul style="list-style-type: none"> • Course #1 • Course #2 • Course #3 						State: <ul style="list-style-type: none"> • •
Career and Technical Student Organization	Name of CTSO						Regional: <ul style="list-style-type: none"> • •
Work-Based Learning Program Options	<ul style="list-style-type: none"> • WBL Option #1 • WBL Option #2 						Local: <ul style="list-style-type: none"> • •
Industry Recognized Credential Options Learn the skills that employers want to see! <i>Italics = must be 18 years old to obtain</i>	Agribusiness Systems	Animal Systems	Biotechnology Systems	Environmental & Natural Resource Systems	Food Products & Processing Systems	Plant Systems	Power, Structural, & Technical Systems
	IRC Name/link #1 IRC Name/link #2						
	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2	IRC Name/link #1 IRC Name/link #2
College Credit Opportunities You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .	College Courses Offered at Your High School						
	Transcripted Credit <ul style="list-style-type: none"> • Name of HS Course #1, IHE granting credit • Name of HS Course #2, IHE granting credit 			AP and/or IB Courses Name of AP/IB Course #1 Name of AP/IB Course #2 - Score, College, Course - Score, College, Course			
	College Courses You Can Take at a College Campus						
	Application Deadlines: October 1st: Spring Courses		February 1st: Summer Courses (ECCP only)			March 1st: Fall Courses	
Start College Now <ul style="list-style-type: none"> • Name of College #1, College Course #1 • Name of College #1, College Course #2 			Early College Credit Program - Name of College #1, College Course #1 - Name of College #1, College Course #2 - Name of College #2, College Course #1 - Name of College #2, College Course #2				