

STATEWIDE COLLEGE AND CAREER PATHWAYS WITH K-12 SCHOOL ENGAGEMENT:

A Pathway that Became a Journey to Access

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University of Nebraska-Lincoln

College of Agricultural Sciences and Natural Resources





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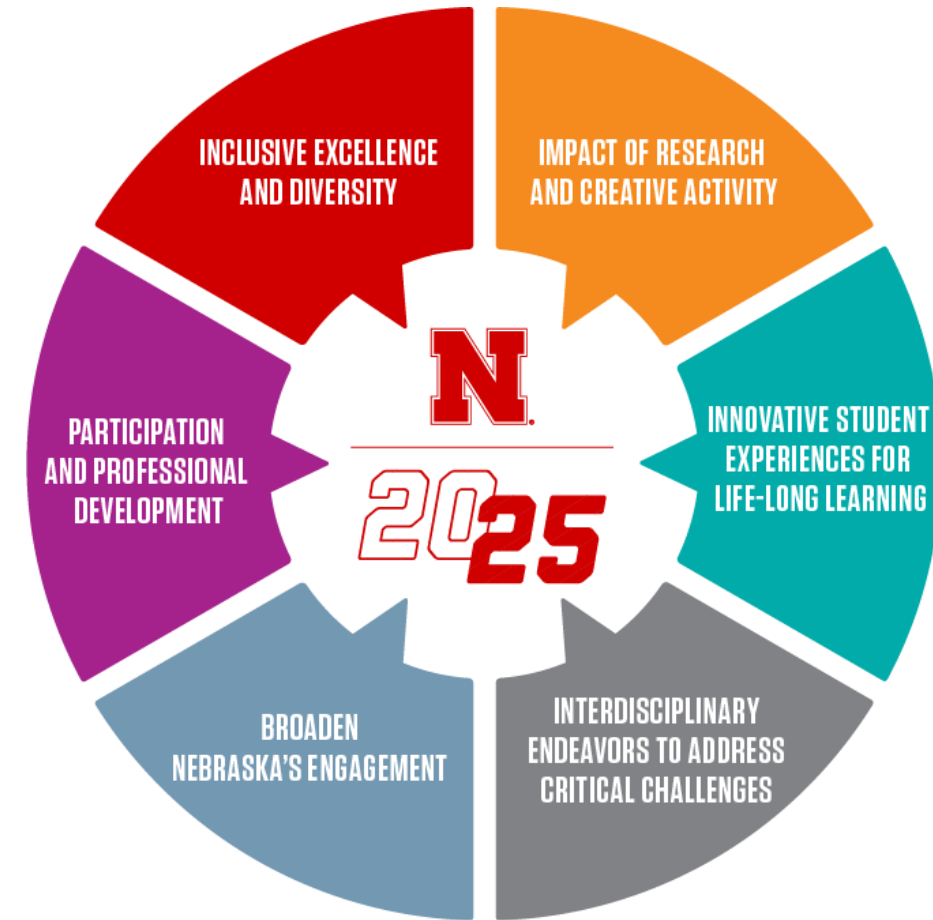
“

This is about preparing the next generation of problem-solvers, innovators and leaders in resilient food, energy, water and societal systems.”

— Tiffany Heng-Moss Dean, College of Agricultural Sciences and Natural Resources

FEWS² Education and Career Pathways

- Improve college and career readiness
- Educational attainment
- Partnership with PK-12 schools in Nebraska
- Community and economic vitality and growth



Food, Energy, Water, and Societal Systems (FEWS²)



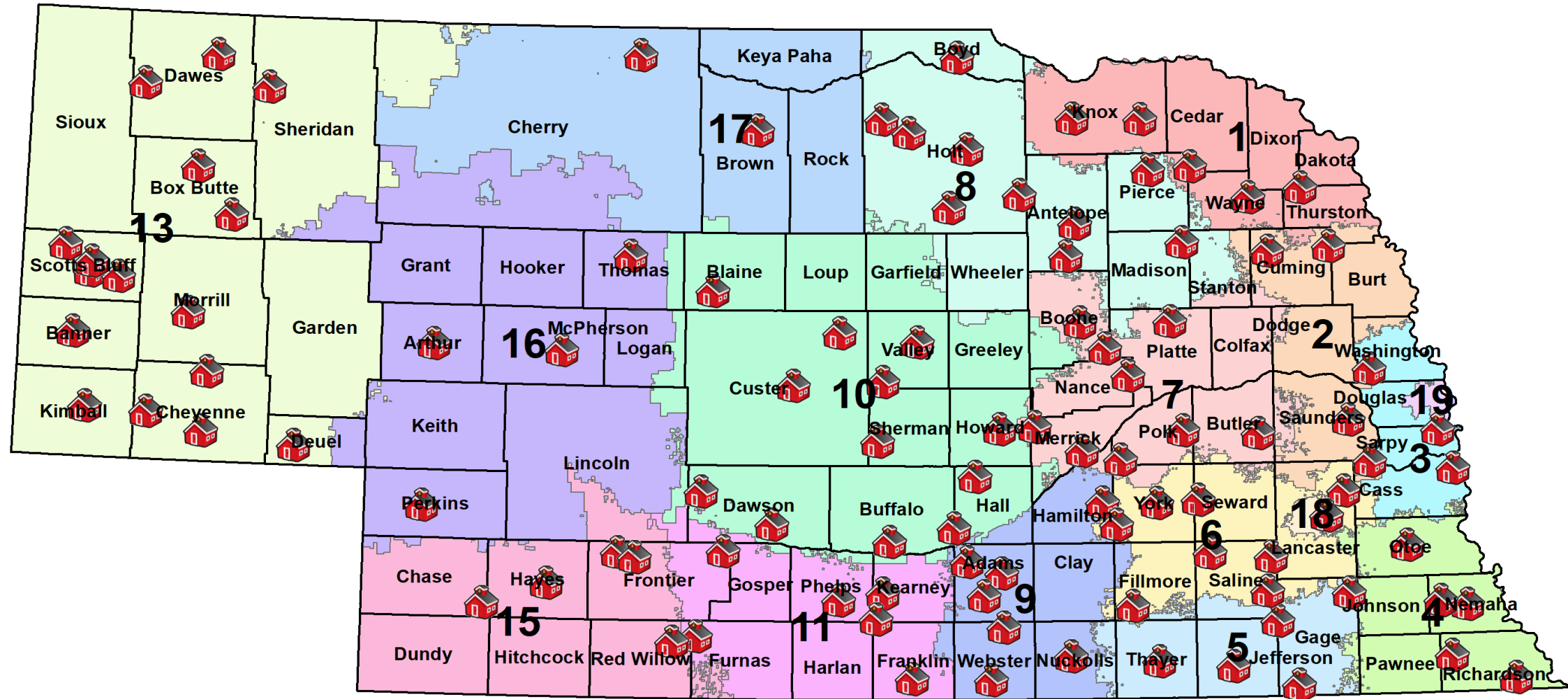
In CASNR-We aim to move the land grant mission forward by developing opportunities about Agriculture Sciences and Natural Resources through the topics of Food, Energy, Water, and Societal Systems by co-creating education and career pathways for students and supporting teachers in doing so.



Our Method and Approach

- 1. We build Relationships**
- 2. We learn the need by listening first**
- 3. We co-create solutions with stakeholders**
- 4. We communicate K-12 opportunities**
- 5. We provide K-12 Experiences**

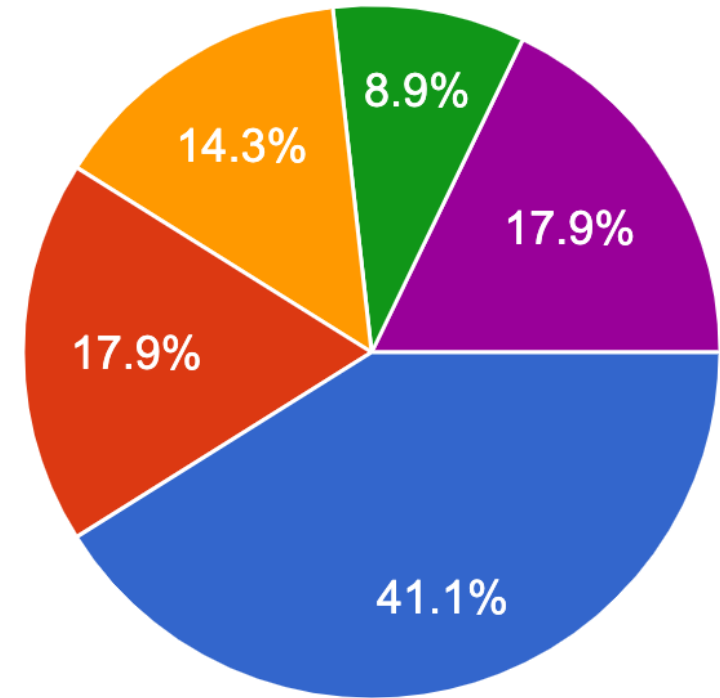
Ag Educator Survey Response 2021



Years of Teaching Experience

Graph Analysis:

- 41.1% -0-5 years
 - 17.9% -6-10 years
 - 14.3% -11-15 years
 - 8.9% -16-20 years
 - 17.9% -21+ years
-
- 59% of those who responded to this survey have taught Ag Education less than 10 years.



In what
ways can
CASNR
support your
Ag
Education
Programs?

Communication*

Curriculum and
Lab
Development*

Content
Expertise*

Career
Exploration

Funding
opportunities

New Teacher
Support*

Industry
Connections*

Student/Teacher
Opportunities*

School
Administration

Ag Contest
Support



Agronomist	Livestock Yard Supervisor	Forest Scientist	Landscaper	Silviculturist	Animal Inspector
Animal Breeder	Meat Inspector	Geneticist	Log Grader	Soil Scientist	Animal Keeper
Beekeeper	Meat Cutter	Landscape Architect	Logging Operations Inspector	Vertebrate Zoologist	Animal Trainer
Cash Grain Farmer	Milk Plant Supervisor	Microbiologist	Lumber Mill Operator	Veterinary Pathologist	Artificial Breeding Distributor
Cattle Rancher	Produce Buyer	Molecular Biologist	Nursery Operator	Virologist	Artificial Breeding Technician
Certified Seed Grower	Produce Commission Agent	Natural Resources Scientist	Park Ranger	Viticulturist	Artificial Inseminator
Citrus Grower	Quality Control Supervisor	Nutritionist	Plant Breeder	Career Counselor	Biostatistician
Cotton Producer	Tobacco Buyer	Pathologist	Timber Manager	Caseworker	Chemical Applicator
Dairy Farmer	Weights and Measures Official	Physiologist	Tree Surgeon	Community Development Specialist	Chemical Distributor
Dairy Herdsman	Winery Supervisor	Plant Scientist	Turf Farmer	Conservation Officer	Computer Analyst
Diversified Crop Farmer	Wool Buyer	Quality Assurance Specialist	Turf Manager	Consumer Counselor	Computer Operator
Farm Manager	Ag Construction Engineer	Rangeland Scientist	Agronomist	Dietitian	Computer Programmer
Fish Farmer	Ag Electrician	Research Technician	Animal Cytologist	Food Inspector	Computer Salesperson
Fish Hatchery Manager	Ag Equipment Designer	Resource Economist	Animal Geneticist	Labor Relations Specialist	Custom Operator
Fruit Grower	Ag Plumber	Soil Scientist	Animal Nutritionist	Naturalist	Dairy Management Specialist
Horse Rancher	Ag Safety Engineer	Statistician	Animal Physiologist	Nutrition Counselor	Farm Appraiser
Hydroponics Grower	Diesel Mechanic	Toxicologist	Animal Scientist	Outdoor Recreation Specialist	Farm Auctioneer Farrier
Livestock Producer	Equipment Operator	Veterinarian	Agriculturist	Park Manager	Feed Mill Operator
Milking Machine Operator	Hydraulic Engineer	Waste Management Specialist	Avian Veterinarian	Peace Corps Representative	Feed Ration Developer and Analyst
Mink Producer	Irrigation Engineer	Water Quality Specialist	Bacteriologist	Regional Planner	Fertilizer Plant Supervisor
Mushroom Grower	Land Surveyor	Weed Scientist	Bioengineer	Regulatory Agent	Fiber Technologist
Nut Orchardist	Machinist	Account Executive	Biophysicist	Rural Sociologist	Field Inspector
Orchard Supervisor	Parts Manager	Advertising Manager	Botanist	Youth Program Director	Field Sales Representative,
Peanut Producer	Research Engineer	Commodity Broker	Dairy Nutrition Specialist	Aquaculturist	Agricultural Equipment
Potato Grower	Safety Inspector	Consumer Information Manager	Dendrologist	Farmer	Field Sales Representative,
Rice Farmer	Welder	Export Sales Manager	Embryologist	Feedlot Manager	Animal Health Products
Shrimp Farmer	College Teacher	Food Broker	Equine Dentist	Animal Behaviorist	Field Sales Representative,
Tobacco Grower	Computer Software Designer	Forest Products Merchandiser	Food Chemist	Animal Ecologist	Crop Chemicals Machinery
Tree Farmer	Computer Systems Analyst	Grain Merchandiser	Herpetologist	Animal T...	
Tree and Vine Fruit Grower	Conference Manager	Insurance Agent	Hydrologist	Enviro...	
Turkey Producer	Cooperative Extension Agent	Landscape Contractor	Invertebrate Zoologist	Enviro...	
Vegetable Grower	Editor	Market Analyst	Limnologist	Fire V...	
Ag Establishment Inspector	Educational Specialist	Marketing Manager	Mammalogist	Forest...	
Butcher	High School Teacher	Purchasing Manager	Marine Biologist	Forest...	
Cattle Buyer	Illustrator	Real Estate Broker	Nematologist	Game...	
Christmas Tree Grader	Information Specialist	Sales Representative	Organic Chemist	Game...	
Cotton Grader	Information System Analyst	Technical Service Representative	Ova Transplant Specialist	Grou...	
Farm Stand Operator	Journalist	Floral Designer	Paleobiologist	Park R...	
Federal Grain Inspector	Personnel Development Specialist	Floral Shop Operator	Parasitologist	Range...	
Food and Drug Inspector	Public Relations Representative	Florist	Pharmaceutical Chemist	Resou...	
Food Processing Supervisor	Radio/Television Broadcaster	Forest Ranger	Plant Cytologist	Soil C...	
Fruit and Vegetable Grader	Training Agricultural Engineer	Forester	Plant Ecologist	Trappe...	
Fruit Distributor	Animal Scientist	Golf Course Superintendent	Plant Geneticist	Water...	
Fruit Press Operator	Biochemist	Greenhouse Manager	Plant Nutritionist	Wildli...	
Flower Grader	Biotechnician	Greenskeeper	Plant Pathologist	Aerial...	
Grain Broker	Cell Biologist	Heavy Equipment Operator	Plant Taxonomist	Ag Avi...	
Grain Buyer	Entomologist	Horticulturist	Pomologist	Ag Ch...	
Grain Elevator Operator	Environmental Scientist	Hydroponics Grower	Poultry Scientist	Ag Eq...	
Hog Buyer	Food Engineer	Landscape Architect	Reproductive Physiologist	Animal...	
Livestock Commission Agent	Food Scientist	Environmental Educator	Horticulture Instructor	Animal Health Products Distributor	Ag Economist
Ag Extension Specialist	Ag Mechanics Teacher	4H Youth Assistant	Information Director	Media Buyer Photographer	Ag Educator
Ag Journalist	Ag News Director	Farm Appraiser	International Specialist	Public Relations Manager	Ag Extension Agent
Ag Lawyer	Agriculture Attaché	Farm Broadcaster	Land Bank Branch Manager	Publicist	Satellite Technician
Ag Loan Officer	Agriculture Instructor/FFA Advisor	Farm Investment Manager	Magazine Writer	Publisher	Scientific Writer
Ag Market Analyst	Computer Specialist Credit Analyst	Foreign Affairs Official		Rural Sociologist	Software Reviewer
	Electronic Editor	Graphic Designer		Forklift Driver	



Communicating CASNR Opportunities

Access to:

- Content Experts
- Curriculum Resources
- Curated Student Experiences
- Graduate Studies
- Professional Learning
- On Campus Experiences
- L.I.N.K.S. Newsletter

Website:

www.casnr.unl.edu/k-12-partners

THE CASNR L.I.N.K.S.
Learning Innovation Network for K-12 Schools

HORTICULTURE CAREERS SPOTLIGHT

SAVE THE DATE GREEN CAREER WEEK
February 27 - March 3

TEACHER'S CORNER
Question of the Month - What do you need to plan for back to school in the fall?
Click here to submit your response.
SCIENTIST SPOTLIGHTS INITIATIVE
ENGAGE STUDENTS IN REFLECTIVE WRITING TO PROMOTE DIVERSITY AND INCLUSION
[HTTPS://SCIENTISTSPOTLIGHTS.ORG/](https://scientistspotlights.org/)

CULUM & CES
being developed for
aka System! Click
in resources.

Wildlife Education:
[/WildlifeEducation/](#)

Education Open
[/hubs/nebraska](#)

Have a student interested in Plants?
Learn about all the Career pathways at: [Seed Your Future](#)

Our college and career pathways, at their core, are designed to provide a progression of experiences that support students as they focus their interests and passions into professions. We believe the use of our six Interest Areas can provide the small steps needed to fine-tune student interests. Each interest area has associated careers pathways. Identifying the interest area is the first step, and exploring is next.

ANALYTIC INVESTIGATORS
You enjoy finding evidence to solve problems

- Plant Inspector
- Plant Taxonomist
- Plant Diagnostician
- Biosecurity Specialist
- Herbarium Curator

COMMUNITY LEADERS
You want to make your community a better place to live

- Educator
- Ethnobotanist
- Forest Manager
- Natural Lands Manager
- Urban Planner

ENTREPRENEURIAL DESIGNERS
You love to design, tinker, and you may even have ideas for a business

- Public Relations Specialist
- Photographer
- Floral Designer
- Salesperson
- Social Media Strategist

ENVIRONMENTAL STEWARDS
You want to find out how you can make our Earth a better place

- Environmental Engineer
- Conservation Biologist
- Habitat Restoration Scientist

FOOD SYSTEM FUTURISTS
You want to know how your love of plants, animals, or food can help feed the world

- Olericulturist
- Zymergist
- Pomologist
- Food Scientist
- Enologist
- Culinary Horticulturist

HEALTH SYSTEM INNOVATORS
Your dream is to collaborate on medical solutions for the future

- Biosecurity Specialist
- Ethnopharmacologist
- Horticultural Therapist
- Molecular Biologist

Click here to access all classroom resources

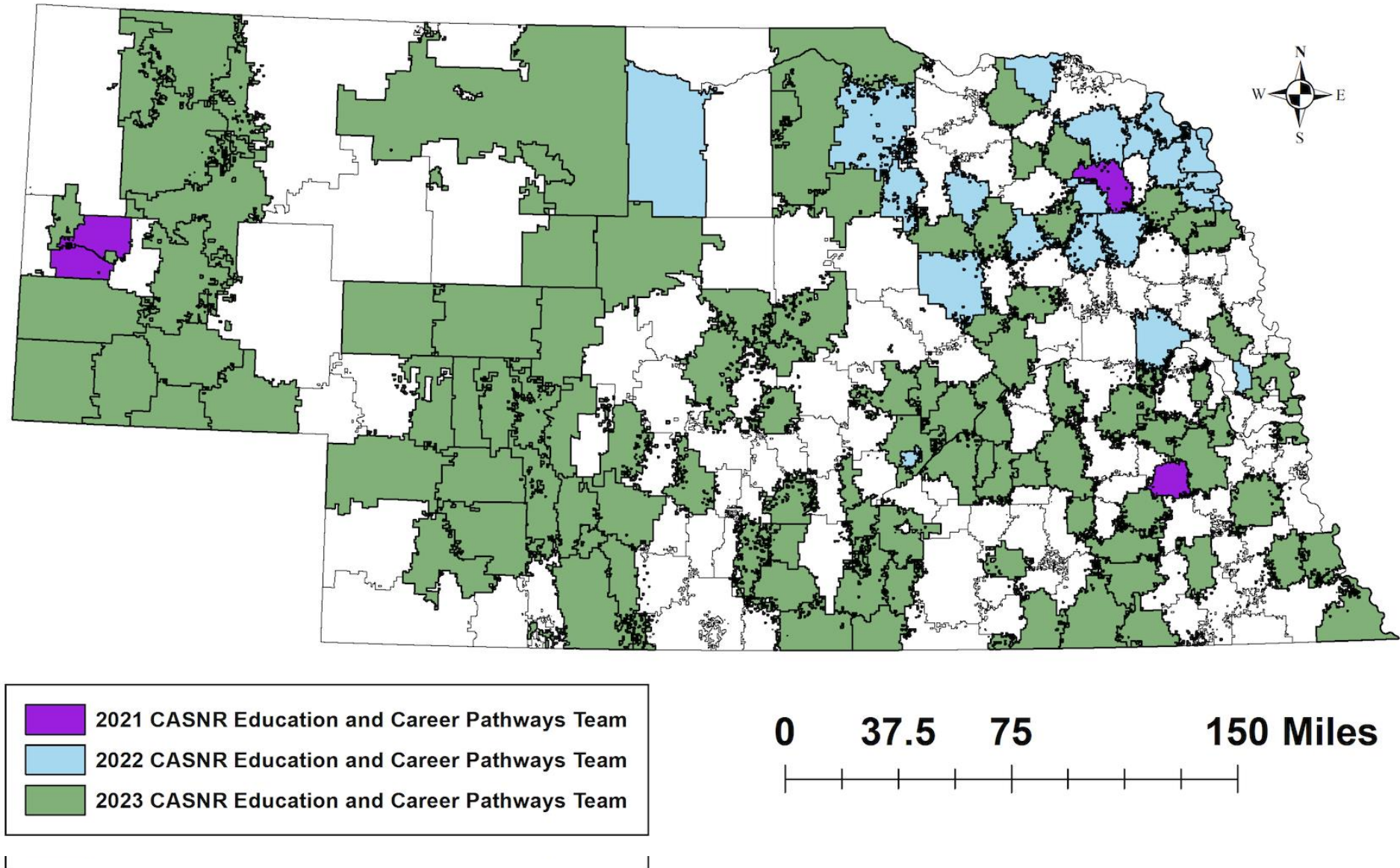
ELEMENTARY SCHOOL (K-5 LEVEL)

Milkweed in the Classroom - Grow your own Milkweed and curriculum resources

Check out Garden TOOLS for Corn learning resources from UNL's Growable team! and their new website Growable.

Morrill Education

CASNR Education and Career Pathways Team Contacts



EXPERIENCE for the FUTURE



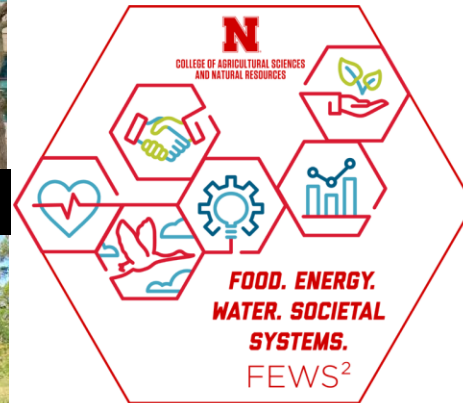
Food. Water. Energy. Landscape Systems. People.



**College of Agricultural
Sciences and Natural
Resources**



Student Interests



Our programs fit your passion!



Food System Futurists

You want to know
how your love of
plants, animals, or
food can help feed
the world

Health System Innovators

Your dream is to
collaborate on
medical solutions for
the future



Environmental Stewards

You want to find out
how you can make
our Earth a better
place

Community Leaders

You want to make
your community a
better place to live



Entrepreneurial Designers

You love to design,
tinker, and you may
even have ideas for a
business

Analytic Investigators

You enjoy finding
evidence to solve
problems



**College of Agricultural
Sciences and Natural
Resources**

EXPERIENCE for the FUTURE

Current College-wide Opportunities for High School Students



Experience the Power of Red

February 13, 2025

**COLLEGE OF AGRICULTURAL SCIENCES
AND NATURAL RESOURCES**

EXPERIENCE THE POWER OF RED

A College of Agricultural Sciences and Natural Resources
half day visit experience at the
University of Nebraska-Lincoln's East Campus!

FEBRUARY 13, 2025

Welcome Session
Explore Academic Interest Areas in the College of
Agricultural Sciences and Natural Resources (CASNR)
Over 25 Degree Programs
Parent Session
Admissions Requirements --- Financial Aid --- Resources for Success
Complimentary Lunch
Optional East Campus Tour
Learn more and register today at go.unl.edu/casnrvisitday_spring25

We're here to help!
Clare Hornung
Recruitment Specialist
chornung2@unl.edu
402-472-7928



**COLLEGE OF AGRICULTURAL SCIENCES
AND NATURAL RESOURCES**

Campus Visits-

<https://casnr.unl.edu/about-casnr/campus-visits/>




Nebraska Now Courses


<https://admissions.unl.edu/specialized-information/nebraska-now/courses/>

Zoom Campus Visit Available

LEARN MORE ABOUT
THE COLLEGE OF
AGRICULTURAL
SCIENCES AND
NATURAL RESOURCES!
ZOOM IN TO ASK
QUESTIONS AND HEAR
ABOUT OUR
PROGRAMS &
SERVICES!



GO.UNL.EDU/VB2S



NOVEMBER 25 7 P.M. CST	FEBRUARY 24 7 P.M. CST
DECEMBER 30 7 P.M. CST	MARCH 31 7 P.M. CST
JANUARY 27 7 P.M. CST	APRIL 28 7 P.M. CST



Engler Program: <https://englerjourney.com/educators/>



Nebraska High Schoolers Test Well Water Quality

The Know Your Well program gives high school students experience in hands-on STEM research while providing community members information about their water quality.

Know Your Well- <https://knowyourwell.unl.edu/>

<https://eos.org/articles/nebraska-high-schoolers-test-well-water-quality>

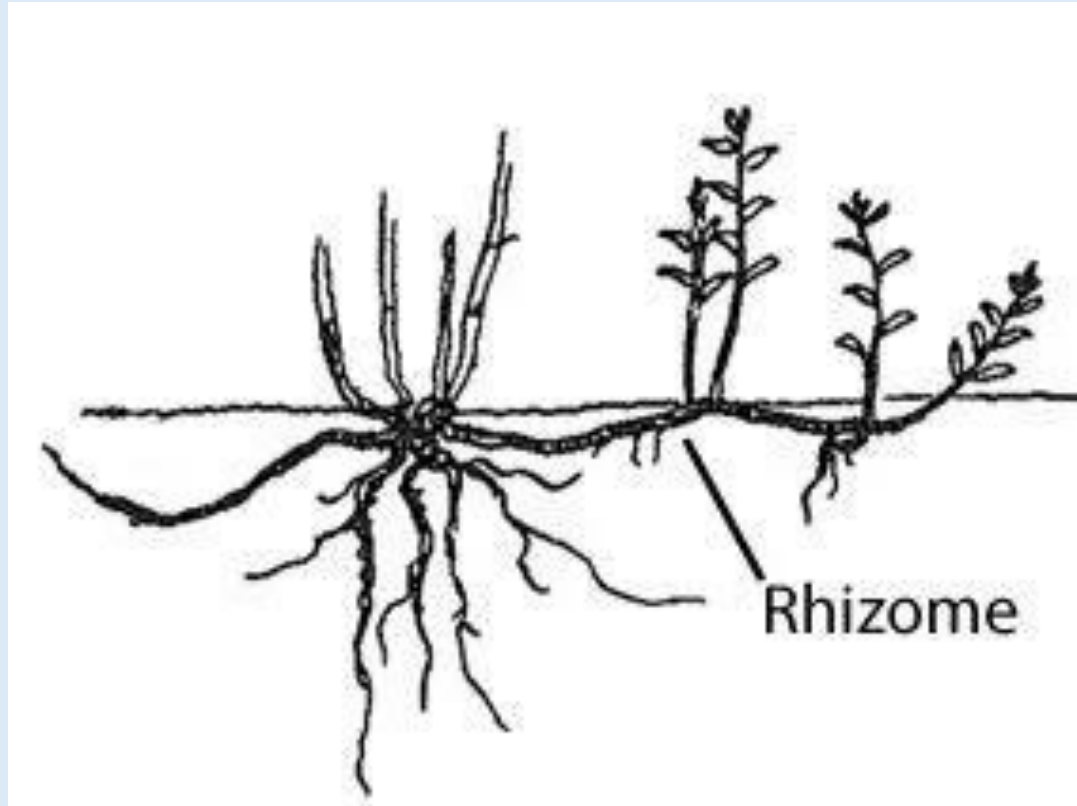


Unit Level Opportunities



The **Plant and Soil Sciences eLibrary** is a collection of Open Educational Resources (OER) developed by team members whose mission is to disseminate foundational science and cutting-edge research related to plants, soils, and the environments where plants grow. <https://passel2.unl.edu/>

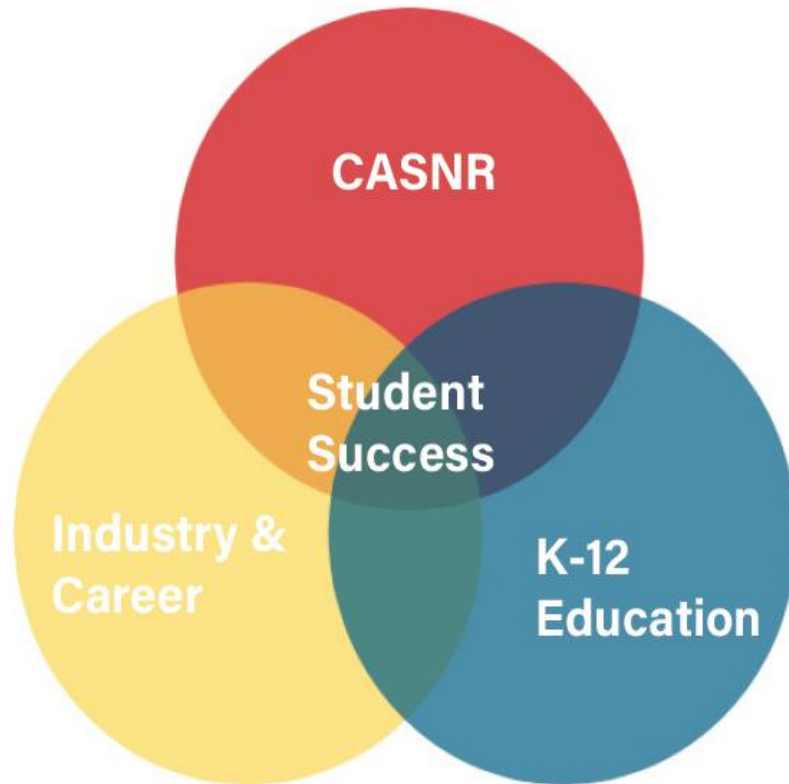
Case Studies Philosophy and Approach



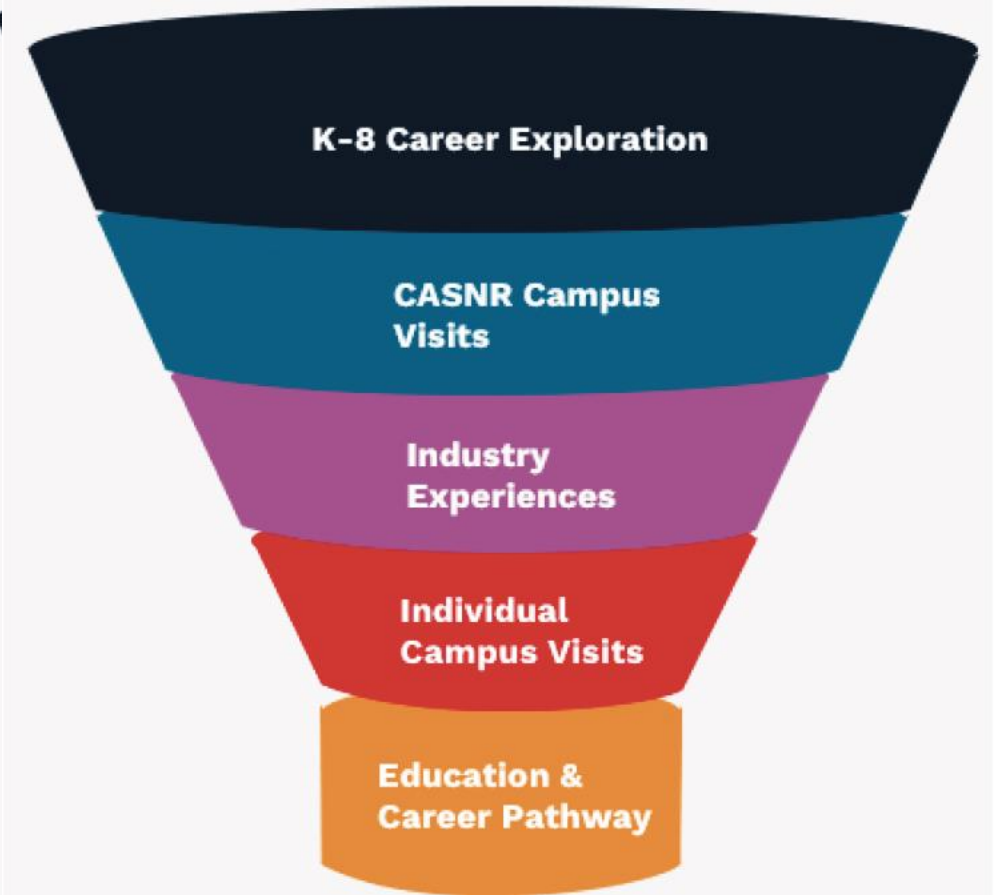
A continuously growing horizontal underground stem which puts out lateral shoots and adventitious roots at intervals

“Children may be just a portion of a nation’s population, but they are 100 percent of its future” (Price, 2008, p. 127).

Co-creation: CASNR, K-12 Education, Industry & Career Experiences



Strategy



CASE Study 1



Partnership Objectives:

MAXIMIZING LOCAL RESOURCES

CAREER EXPLORATION AND LIFELONG
LEARNING

INFUSE FEWSS INTO STUDENT & TEACHER
EXPERIENCES

LPS, UNL launch joint program at Northeast September 22, 2020

Craig Chandler | University Communication – The new LPS-UNL Early College and Career STEM Program at Lincoln Northeast High School will prepare Northeast students in the areas of food, energy, water and societal systems. <https://ianrnews.unl.edu/lps-university-launch-early-stem-program-lincoln-northeast>

Student Experiential Progression



EARLY COLLEGE AND CAREER STEM PROGRAM

*Food, Energy, Water
and Societal Systems*

KINDERGARTEN TO 12TH GRADE

Fosters an **understanding and appreciation** of the integral role of FEWS in daily life, with a specific emphasis on the significance of agriculture in Nebraska.

6TH TO 12TH GRADE

Expands upon the K-5 foundation, preparing and inspiring students to explore diverse **career pathways** within the FEWS sector.

9TH TO 12TH GRADE

Empowers students to analyze the **economic drivers** and global interconnections of FEWS, emphasizing their impact on communities and industries within Nebraska, the United States, and internationally.

LPS-CASNR partnership is ‘building a beautiful connection’ at Northeast

By [Geitner Simmons | IANR Media](#)



Craig Chandler | University Communication and Marketing
Peyton Miller headed the creation of student murals saluting careers in food, energy, water and societal systems as part of Lincoln Northeast High School’s FEWSS partnership with the University of Nebraska–Lincoln. Miller graduated from Northeast this spring.

<https://news.unl.edu/article/lps-casnr-partnership-is-building-a-beautiful-connection-at-northeast>

February 9, 2025

UNL and LPS to expand Early College and Career STEM program beyond Northeast High School

“We are so fortunate to have a partner in our community like UNL who is leading the way nationally in many of these areas of study and are willing to share their expertise with our students,” said Salem. “This is one more way the collaboration with community partners helps us fulfill our mission to prepare ALL students for successful careers, lifelong learning, and civic engagement.”

<https://ianrnews.unl.edu/article/unl-and-lps-to-expand-early-college-and-career-stem-program-beyond-northeast-high-school>



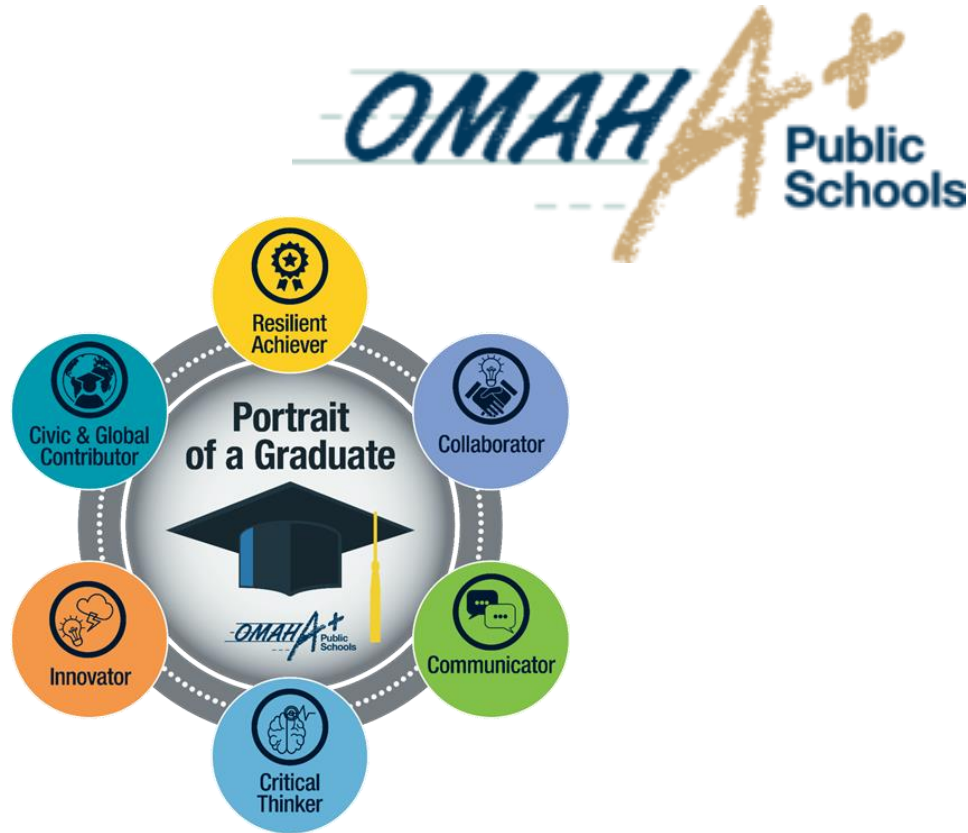


Outcomes:

- Increased Teacher Opportunities
- Increased Student understanding
- 2025-Farm to School Grant Partnership
- 2025-Increased District Support activated district wide expansion
- 2025-2026 New opportunities for community partnerships
- 2025-2026 Pilot Local Prairie 7th grade field trip integration with Science Curriculum

Case Study #2

Omaha Public Schools



Objective: Give students a first glimpse of how many potential education pathways and careers are available in agriculture and natural resources within the state of Nebraska

OPS Visits to EAST Campus

Sample Schedule

- 9am leave Omaha
- 10am arrive on East Campus
- 10:15am Session 1 begins
 - Welcome
 - Student Panel
- 10:45 Transition
- 11:00am Session 2
 - 11:30am Transition (students rotate to new activity or lunch)
- 11:45am Session 3
- 12:15pm Transition (students rotate to new activity or lunch)
- 12:30pm Session 4
- 1:00pm leave East Campus
- 2:00pm arrive in Omaha

CASNR highlights educational pathways, boosts awareness for OPS students

By [Geitner Simmons](#) | IANR Media

<https://news.unl.edu/article/casnr-highlights-educational-pathways-boosts-awareness-for-ops-students>



“This gives them a first glimpse of how many potential education pathways and careers are available in agriculture and natural resources within the state of Nebraska,” Mittelstet said.

Clare Hornung | CASNR

Sue Ellen Pegg, recruitment coordinator with the College of Agricultural Sciences and Natural Resources, shares information about the college with students from Omaha Northwest High School’s Freshman Academy during their visit to East Campus on Nov. 19.

February 5, 2025

OPS visits to East Campus departments reach 1,000-student milestone

By [Geitner Simmons | IANR Communications](#)

<https://ianrnews.unl.edu/article/ops-visits-to-east-campus-departments-reach-1000-student-milestone>

“No milestone this big, this fast, could happen without the commitment of a team...”

CASNR Support: Campus Experience: Faculty and Staff/ Immersive Activities/ and Access to Campus College-wide

School District Support: Transportation and Teachers

Ag Industry support: Funding for Student Lunches

Sponsors for the visits are Farm Credit Services, Nebraska Farm Bureau Foundation, members of Ag Builders of Nebraska, and ag and natural resources commodity groups and industries across the state.



Russell Shaffer

Lyla Mayle, a freshman at Omaha's Burke High School, works with her classmates on creating a mock variable rate irrigation system as part of their visit to East Campus.

Outcomes

2024-2025-Pilot Year over 1600 students and teachers visited campus

Summer 2025-Unit Head Visit and Tour to OPS

2025-2026-Ag Industry Funding Support for Year 2

2025-2026-6/9 OPS High Schools registered for Campus Visit Projection 2000 students

2025-2026- Omaha Industry Discussions for industry experiences in Omaha



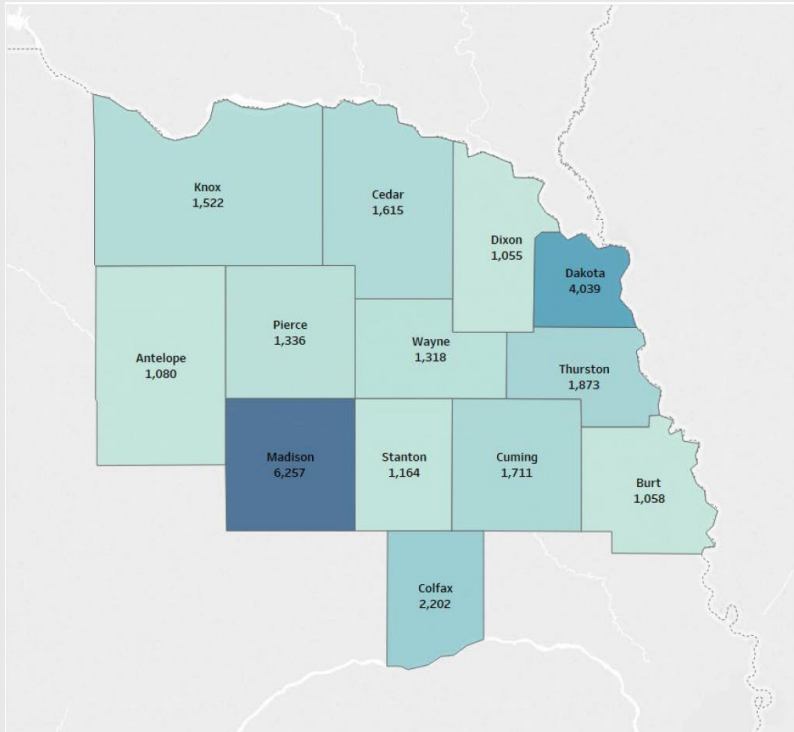
Northeast

NEBRASKA

Agriculture and Natural Resources
Education Compact

Founding Goals of the Northeast Education Compact

Common Purpose: To support all
Nebraskans to obtain the good life.



Goal 1: **Education** platforms **for the continuum of learners** in resilient food, energy, water, and societal systems that **align with career opportunities** for an evolving workforce **for our communities**.

Goal 2: **Teacher preparation** (including curriculum) and professional development programs for pre- and in-service educators that are responsive to the increased need for highly qualified **K-12 agricultural science and STEM educators**.

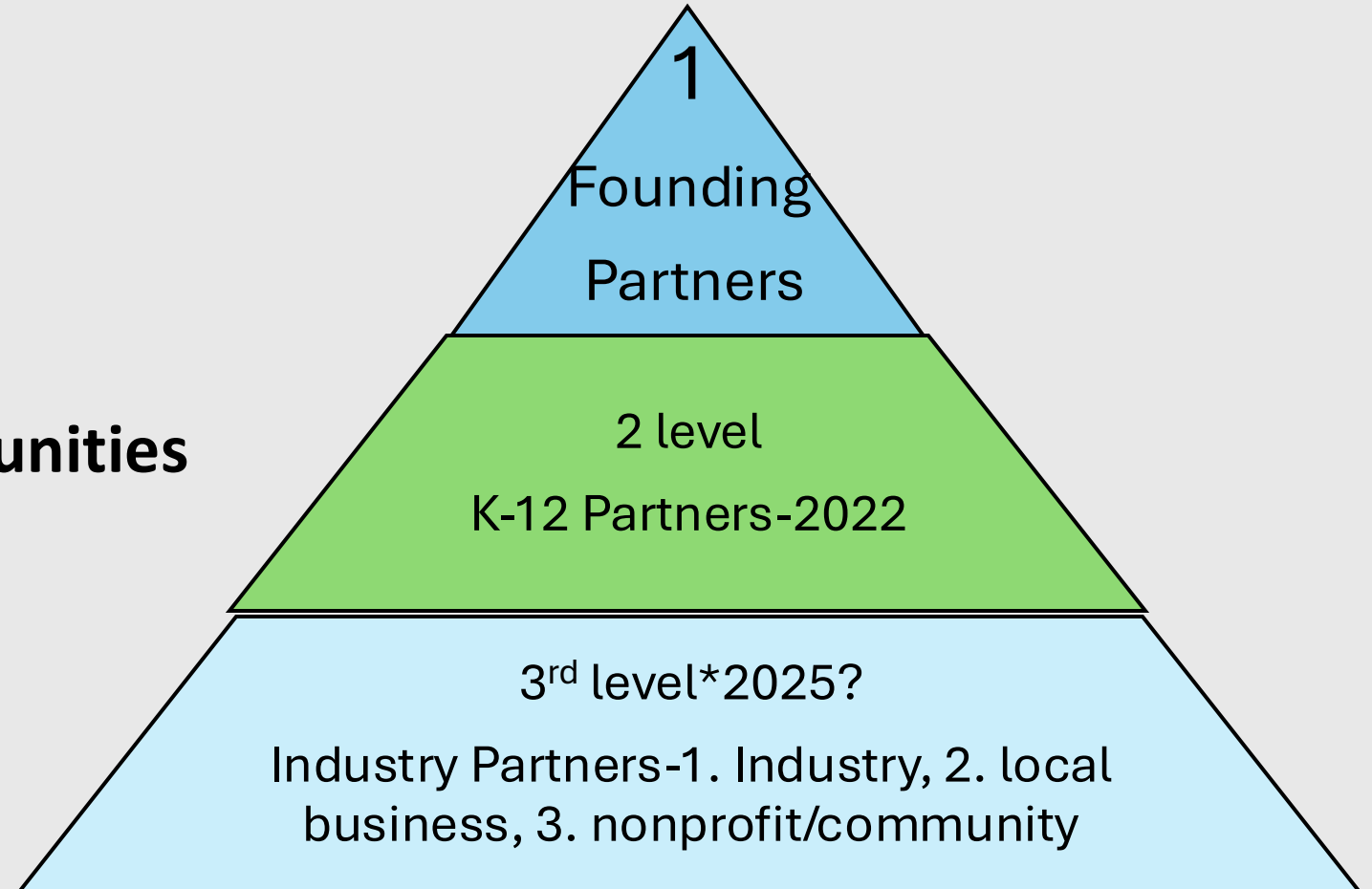
Goal 3: **Seamless career education pathways** to prepare the **next generation** of professionals, problem-solvers, innovators, entrepreneurs, and leaders in resilient food, energy, water, and societal systems.

Goal 4: **Workforce development solutions** for the agriculture and natural resources **industries in the region**.

Framework: <https://ianr.unl.edu/northeast-nebraska-agriculture-and-natural-resources-education-compact>

Steps to developing a sustainable Compact

1. Compact Procedures
2. Compact Partner Needs
3. Haskell Re-envision
4. Teacher Supports and Opportunities
5. Student Experiences and Opportunities
6. Workforce Development





Northeast Nebraska Agriculture and Natural Resources Education Compact Added Education Partners in March 2022

In 2022, the compact's membership expanded to include Educational Service Units 1, 7 and 8 along with these school districts: Ainsworth, Allen, Battle Creek, Boone Central, Crofton, Elkhorn Valley, Emerson-Hubbard, Homer, Laurel-Concord-Coleridge, Neligh-Oakdale, O'Neill, Omaha Nation, Ponca, South Sioux City, Stanton, Summerland, Walthill, Winnebago, Winside and Wisner-Pilger.

June 27, 2023 · 5 min read

Northeast Nebraska teachers explore student learning opportunities

by [Geitner Simmons](#) | [IANR Media](#)

<https://news.unl.edu/newsrooms/today/article/northeast-nebraska-teachers-explore-student-learning-opportunities/>



Northeast education compact to boost student learning, workforce development by [Geitner Simmons | IANR Communications](https://ianrnews.unl.edu/northeast-education-compact-boost-student-learning-workforce-development)

<https://ianrnews.unl.edu/northeast-education-compact-boost-student-learning-workforce-development>



Photo courtesy of Jerry Guenther/Northeast Community College

Developing/Piloting a Student-Teacher Experience Calendar

	A	B	C	D	E	F	H	I	J	K	L	M
1	HAL Calendar											
2	Month	Date	Day	Start Time	End Time	Event	Location	Tag	Please Share (kids event)		Attendance Count Audience Type	
3	August											
4		8/5/2024	Monday	9:00 AM	11:00 AM	Allen FFA Volunteered for Clean up	HAL Farm	FFA High School Volunteer Dixon County 4-H Ages	Registration Only	11	Exact	students
5		8/7/2024	Wednesday	9:00 AM	3:00 PM	Family Field Day	HAL Farm	Public Field Day	Open to All	325	Estimated	Families
6		8/13/2024	Tuesday	9:30 AM	3:00 PM	Nitrogen Sources and Water Quality Field Day	Auditorium	Field Day Public		30	Estimated	producers, consultants, researchers
7		8/27/2024	Tuesday	2:00 PM	5:00 PM	Grossenburg Combine Clinic	HAL Farm	Workshop Public		85	Estimated	producers and John Deere dealers
8												
9	September											
10		9/5/2024	Thursday	11:30 AM	12:45 PM	CASNR Dept Heads	HAL Auditorium	Tour/Visit UNL Employees		22	Exact	CASNR Dept. Heads and Leads
11		9/10/2024	Tuesday	9:00 AM	10:00 AM	Coffee and Conversations: Angela Abts w/ State Fair Results	HAL Auditorium	Programminn Public		9	Exact	
12		9/26/2024	Thursday	Morning		Allen FFA Land Judging Practice	Soil Pit	FFA 4-H Ages Dixon County High School	Requested by School	17	Exact	students
13		9/28/2024	Saturday	9:00 AM	12:00 PM	Fall Fest	HAL Auditorium, Arboretum	Programminn Public	Open to All	33	Estimated	Families and locals
14												
15	October											
16		10/1/2024	Tuesday		Afternoon	Norfolk Public School Ag Ed Dept Land Judging Practice	Soil Pit	FFA 4-H Ages Madison County High School	Requested by School	31	Exact	students
17		10/2/2024	Tuesday		Evening	Wayne FFA Land Judging Practice	Soil Pit	FFA 4-H Ages Wayne County High School	Requested by School	20	Exact	students
18		10/2/2024	Wednesday	10:00 AM	3:00 PM	Great Plains Hieffer Development Center First Year Wrap-Up	HAL Farm	Field Day Public		32	Estimated	producers and educators
19		10/8/2024	Tuesday	9:00 AM	10:00 AM	Coffee & Conversations: Introducing Nicole Luhr, WCS Educator	HAL Auditorium	Programminn Public		9	Exact	public/locals
20		10/11/2024	Friday	1:00 PM	3:00 PM	LCC Exploratory Ag Field Trip - G9	HAL Auditorium, HAL Farm	4-H Ages Cedar County Tour/Visit High School FFA	Requested by School	11	Exact	students + advisor/teacher
21		10/11/2024	Friday	1:00 PM	3:00 PM	LCC Exploratory Ag Field Trip - G8	HAL Auditorium, HAL Farm	4-H Ages Cedar County FFA Tour/Visit Middle School	Requested by School	7	Exact	students + advisor/teacher
22		10/15/2024	Tuesday		Afternoon	Mitchell FFA Chapter	Soil Pit	4-H Ages FFA High School Scotts Bluff County	Requested by School			
23		10/26/2024	Saturday			Rocket Workshop with Angela Abts		Workshop	Open to All Registration Only			
24		10/26/2024	Saturday	12:00 PM		The Heartland of Rocketry (T.H.O.R.) Launch	HAL Farm	Public	Open to All			Public
25												
26	November											
27		11/12/2024	Tuesday	9:00 AM	12:00 PM	Nov. Coffee & Conversations	HAL Auditorium	Programminn Public				
28		11/15/2024	Friday		ALL DAY	Fall Conference	HAL Building	Conference UNL Employees				Extension
29												
30												
31	December											
32		12/4/2024	Wednesday	8:00 AM	5:30 PM	HAL Ag Careers Day	HAL Building	High School Programminn	Area Schools Only Invite Only			Students
33		12/7/2024	Saturday	9:00 AM	12:00 PM	Winter Fest	HAL Building	4-H Ages Workshop Tour/Visit Programminn Public	Open to All			Public, Families
34		12/7/2024	Tuesday	9:00 AM	10:00 AM	Dec. Coffee & Conversations	HAL Auditorium	Programminn Public				Public
35												

<https://hal.unl.edu/programs/student-opportunities/>

June 25, 2025

Northeast Nebraska education compact expands outreach to students

By [Geitner Simmons | IANR Media](#)

<https://ianrnews.unl.edu/article/northeast-nebraska-education-compact-expands-outreach-to-students>



A seventh-grade student expressed gratitude to Mittelstet for the STEM camp, saying such an event wouldn't be possible at his school, given the small number of students.

“Each of these schools couldn't individually have the camp,” Mittelstet said. “So, it was the collaboration of a few from each school that allowed it to be a success and have the numbers to make it happen. That is why this compact is so important: As individuals, we are few, but as a collective, we are many.”

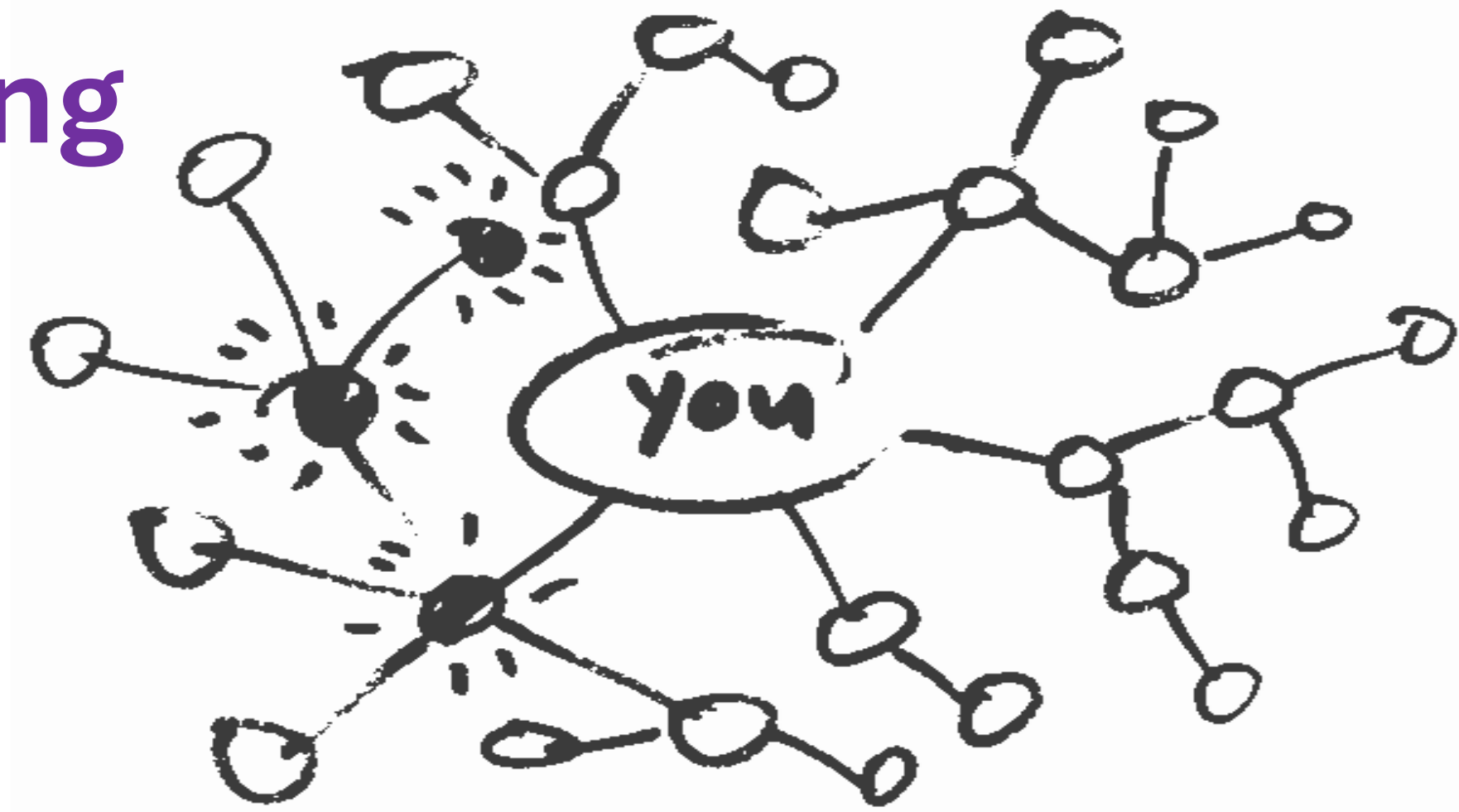
Jodi Sangster | Nebraska EPSCoR

Outcomes 2024-2025

- 3 NSF Grants are pending:
 - **Rural Stamina NSF Engines-Was Just announced as one of 15 finalists** provide funding for Workforce Development opportunities
 - **EPSCORE E-Core Grant INSPIRE-** funding for future STEM Camps and resources in the region
 - **NSF Engineering Research Center for AI-driven rural resilience (AIRR)-**Will provide teacher supports and student experiences
- Northeast Community College- Hosted the Compact's **first STEM Camp in partnership with Nebraska EPSCoR-** 40+ students registered
 - Funding for two more camps is available
- **Haskell Ag Lab-**Is seeing **increase** in events and **participation** from compact schools –Over 1000 individuals have been to HAL this year

Vision for the Future

Connecting
Learning
to Life...

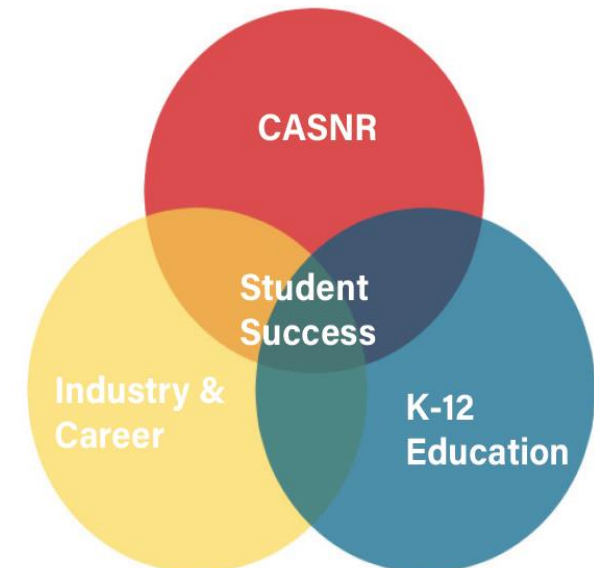


Projected Future Outcomes:

- Increased student interest in CASNR majors and enrollment
- Increased partnership with Faculty grants and broader impacts
- Increased teacher/student Understanding of Workforce opportunities in Ag And Natural Resource Industries
- Increased experiences offered at our Research Education and Extension Centers and Nebraska Industries



Co-creation: CASNR, K-12 Education, Industry & Career Experiences





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