

CURRICULUM VITAE

NAME

Heather Nicole Crabtree

ADDRESS

Colorado State University
Spur Terra
4780 National Western Dr
Denver, CO 80216

CV SECTION 1: Employment History/Awards

EDUCATION

- 2022 Master of Agriculture in Agricultural Education,
Colorado State University, Fort Collins, CO
- 2009 Bachelor of Science, Agricultural Communications
Purdue University, West Lafayette, IN

ACADEMIC POSITIONS

- 2023-Present CAM's Ag Academy PBL Instructor, Department of Agricultural and Resource
Economics, Colorado State University

OTHER POSITIONS

- 2016-2023 Agricultural Education Instructor/ FFA Advisor, Westminster High School,

Westminster, CO

CURRENT JOB DESCRIPTION

70% Instruction/Advising 10% Research/Creative Activity 20% Outreach/Service

HONORS AND AWARDS

- February 2021 iCEV National Teacher of the Month

CV SECTION 2: Publications/Scholarly Record

My research agenda revolves around agricultural literacy, agricultural education, and agricultural student success. In my current research position, I strive to demonstrate my ability to maintain a robust research program through various scholarly activities. The interconnectedness of my research endeavors, pedagogical pursuits, and community engagement initiatives is an integral part of my approach to my scholarship.

PUBLISHED WORKS

Refereed Journal Articles:

Refereed Proceedings/Transactions:

Non-Refereed Articles

PAPERS PRESENTED/ SYMPOSIA/ INVITED LECTURES/ PROFESSIONAL MEETINGS/ WORKSHOPS

August 2023 "PBLs as Career Connectors" Agcareers.com Agriculture & Food HR Roundtable Conference- Presenter, Denver, Colorado*

July 2023 "How to Run Problem Based Curriculum in Agricultural Education" Colorado Ag Ed Boot Camp- Presenter, Fort Collins, Colorado*

May 2021 "Start Your Engines: School-Based Enterprise Experiences" CTE Inspired 2021 Virtual Conference- Presenter, Virtual*

COLLABORATIVE, INTERCOLLEGIATE & INTERDISCIPLINARY SCHOLARSHIP

Fall 2023-Present: DARE Recruitment Team Member and DARE Connect Developer.

As a dedicated member of the DARE recruitment team at Colorado State University, I actively promote the Department of Agriculture and Resource Economics (DARE) to prospective students and contribute to student retention efforts. A notable achievement of mine is co-developing DARE Connect, an innovative program that facilitates connections between Agricultural Business, Economics, and Food Systems professionals and local secondary agricultural education instructors. Through DARE Connect, we have created curriculum materials and instructional videos to address challenging topics within the Ag Business pathway. This initiative aims to strengthen relationships with rural students and teachers, enhance recruitment efforts from rural areas in Colorado, and provide valuable support to local educators. I played a vital role in conceptualizing and organizing DARE Connect, collaborating with Team Ag Ed members to explore opportunities for collaboration between DARE and Colorado Agricultural Education Teachers.

Spring 2013-Present: National FFA Organization Agricultural Communications CDE Committee

As a member of the National Agricultural Communications CDE Committee I serve high schools and students across the nation in connecting Agricultural Communications and Literacy opportunities. This committee works to ensure that the contest is industry driven and prepares students for careers and college experiences within agricultural communications.

CV SECTION 3: EVIDENCE OF TEACHING

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Schools</u>	<u>Students</u>
2023	Fall	<i>Food Access PBL</i>	12	427
2023	Fall	<i>Plant Genomics PBL</i>	18	362

COURSE DESCRIPTIONS

Food Access Problem Based Learning

Eight week High School Course

The Food Access PBL is offered to schools across the state of Colorado. The curriculum contains all lesson plans, lab materials, student workbooks, and support materials for the eight week course. Teachers may facilitate lessons in their classrooms, request a CAM's Ag Academy Instructor to facilitate in their space, or attend a lab facilitation at CSU Spur Morgridge Learning Lab. Within the eight week course students strive to come up with a solution as well as develop a presentation revolving around their solution, to the driving question:

" As the world transitions from the Global Pandemic, food insecurity and instability has become a more relevant conversation, even in the United States. How do we develop a more reliable and stable food system? Worldwide, 8.9% of the population goes to bed hungry. In the United States, 3.9% of the population goes to bed hungry. On top of that, according to estimates compiled by the Food and Agriculture Organization (FAO), by 2050 we will need to produce 60 percent more food to feed a growing world population of 9.3 billion. How can we come together to feed all the people on our planet?"

Plant Genomics Problem Based Learning

Eight week High School Course

The Plant Genomics PBL is offered to schools across the state of Colorado. The curriculum contains all lesson plans, lab materials, student workbooks, and support materials for the eight week course. Teachers may facilitate lessons in their classrooms, request a CAM's Ag Academy Instructor to facilitate in their space, or attend a lab facilitation at CSU Spur Morgridge Learning Lab. Within the eight week course students strive to come up with a solution as well as develop a presentation revolving around their solution, to the driving question:

"In recent years we have experienced unprecedented challenges to food and agronomic crops including lodging, plant pests such as blight and insects, and changes in the growing season (drier, longer, colder environments than historically observed). How can plant/crop diversity, selection and breeding help to solve these challenges?"

GUEST TEACHING

Fall 2023- present

AGED 220: Understanding Agricultural Education; lecture- "Exploration of Problem Based Learning"

CV SECTION 4: Evidence of Outreach/Service/Engagement

I am actively working to become an integral part of the outreach and engagement effort at Colorado State University. I joined the recruitment committee for the Department of Agricultural and Resource Economics from Fall 2023 to the present. Additionally, I have been a valuable member of the Colorado Foundation for Agriculture Advisory Board member since Fall 2021. I currently participate in Colorado Team Ag Ed and the National Western Stock Show Ag Adventure Planning Committee. These spaces have allowed me to not only gain a broader perspective on the college as a whole, but have also allowed me to continue community outreach and agricultural literacy in new spaces.

I have also assisted in CAMs Agriculture Academy's On the Road Ag Literacy Outreach program. CAMs, part of the program of Agricultural Education and the larger CAMs Agriculture Academy Agricultural Literacy Outreach Program, promote agricultural education and literacy across Colorado through place-based educational initiatives like the popular Ag Adventure at the National Western Stock Show and CAMs Ag Academy at the Colorado State Fair.

COMMITTEES

1. National Western Stock Show Ag Adventure Planning Committee, Fall 2023- present

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

1. National Association for Career and Technical Educators member, Spring 2017-present
2. American Association for Agricultural Education member, Spring 2017- present
3. Colorado TEAM Aged (Joint Staff for Strategic Planning in Colorado Agricultural Education) member, 2023-present
4. Colorado Vocational Ag Teachers Association member, 2017-present

SERVICE

1. Colorado FFA State CDE and LDE event assistant, 2023-present
2. National FFA Agricultural Communications CDE committee member, 2013-present

OUTREACH/ENGAGEMENT

CAMs Ag Academy: On the Road Agricultural Literacy programming; CAMs on the Road provides pop-up educational agriculture experiences built for unique settings within communities around Colorado. The main focus of these short term engagements is to foster interest and positivity about and around agriculture, and foster collaboration amongst the community, industry and youth partners in agricultural literacy. Programs are developed primarily for K-6 audiences, however CAMS staff and CSU student volunteers are trained on encouraging multi-generational learning during our lessons to include all who come to CAMs. There are three programs offered as part of the CAMs Ag Academy on the Road suite: CAMs Classroom, teacher support, program design and evaluation, Event Integrated programming (scavenger hunts), Youth educator training, and Junior Ag Ambassador badging. Depending on the site and community needs, CAMs will program some or all of the offerings available.