

# Agricultural, Food & Natural Resources (AgriScience)

## Environmental Literacy Integration Framework

This document will assist you in incorporating environmental literacy into your CTE Pathway to enhance the program by delivering content through an environmental lens and drawing direct connections between the academic content, technical learning, and integrated CTE professional development. Environmental literacy is the desired outcome of environmental education and provides our future workforce with sound scientific information, as well as skills for critical thinking and creative, strategic problem solving.

- [What is Environmental Education?](#): EPA definition and importance of environmental education.
- [NOAA Education Strategic Plan](#): Goal One is Environmental Literacy
- [Delaware Pathways](#): Environmental literacy project page

## Agricultural, Food & Natural Resources (AgriScience)

Career Cluster	<a href="#"><u>Average Wage 2020</u></a>	Total Openings	Percent Total Openings	New Jobs by 2030	Annual Percent Growth
Agricultural, Food & Natural Resources (AgriScience)	\$39,479	6,183	1.2%	433	0.8%

**The AgriScience sector serves as a steward of the environment by implementing a range of sustainable, environmentally responsible practices.** Understanding environmental systems allows agriscience professionals to make informed decisions that support effective land management, reduce ecological footprints, and ensure long-term food security. Key environmental challenges, such as biodiversity loss, soil conservation, and water usage, can be addressed through the adoption of climate-smart agricultural practices. Implementing these practices protects natural resources and improves the resilience of agricultural systems, helping to safeguard future food production by fostering a more sustainable and environmentally responsible industry.

## Green AgriScience Careers

- [10 Popular Sustainable Agriculture Jobs](#): This resource by [Unity Environmental University](#) offers 10 popular sustainable agriculture jobs including the job description, average salary, and recommended degree.
- [AG Career Profiles](#): This resource highlights diverse career opportunities in different pathways. The career profiles include job descriptions, required education, potential employers, and other pertinent information.
- [AG Hires](#): This resource shares agriculture jobs in Delaware by category and types.
- [DNREC Jobs](#): This resource has job opportunities at the Delaware Department of Natural Resources and Environmental Control.

## Incorporating “Green methods” in AgriScience

The following articles highlight green methods that agriscience professionals can implement on the job–

- [Embracing the Green Revolution: Sustainable Agriculture for a Healthier Planet](#)
- [Novel Approaches and Practices to Sustainable Agriculture](#)
- [Agricultural Sustainability: Concepts, Principles, and Evidence](#)
- [Sustainable Agriculture: A Thought Leader’s Guide](#)
- [Delaware Nature Society—Regenerative Agriculture](#)
- [Regenerative Agriculture 101](#)
- [Farms and Agricultural Production Systems](#)

## Delaware Community Plugins

- [Delaware Urban Farm & Food Coalition \(DEUFFC\)](#): Located in Northern Delaware, DEUFCC offers a network of support for urban agriculture and community gardening projects.
- [Complete Communities Delaware](#): The Delaware Complete Communities Planning Toolbox, offered through the University of Delaware, offers resources to incorporate practices for environmental stability.
- [Against the Grain Farm](#): Against the Grain is a small sustainable farm growing organic produce in New Castle, Delaware.
- [Buy Local Delaware Farm Stands Guide](#): Website providing the names and locations of farm stands in Delaware, encouraging people to shop local directly from farmers.
- [Food Bank of Delaware](#): The Food Bank of Delaware aims to supply nutritious food to people facing food insecurity.

- [Connecting Food Resources to Communities in Delaware](#): Interactive map made in collaboration with partners across Delaware to connect food insecure people with resources during times of emergency.
- [Delaware Rural Water](#): Non-profit organization aiming to supply reliable and sustainable water services to rural communities.
- [Delaware Cooperative Extension](#): University of Delaware network connecting experts in agriculture to the community.

## Green Agriscience Programs

- [The Roth Center for Sustainable Agriculture– Sustainable Agriculture Systems \(B.S\)](#): An integrated program at Delaware Valley University that includes the plant, animal, social and agribusiness components of a sustainable agriculture system.
- [Northeast Sustainable Agriculture Research & Education Program](#): Northeast SARE's network of state coordinators conduct professional development programs and share information about SARE's grant programs and other sustainable agriculture resources in their respective states. Delaware's State Coordinator is housed at Delaware State University.
- [Delaware State University Department of Agriculture & Natural Resources](#): DSU's Agriculture & Natural Resources program promotes environmental literacy and agriculture within agricultural education. As an HBCU, DSU operates two extension farms in Delaware and is known for offering generous scholarships and grant opportunities for minority students. Including both institutions provides a more inclusive and comprehensive overview of educational pathways in agriculture.
- [The University of Delaware Sustainable Food Systems Degree Program](#): This program emphasizes the fundamentals of plant, soil, food, social and animal sciences, including basic chemical and mathematical principles, to the food system.
- [The University of Delaware's College of Natural Resources](#) (CANR): The University of Delaware's CANR has adopted sustainability initiatives to offer majors that teach and encourage sustainability.
- [Unity Environmental University Sustainable Agriculture Degree](#): This university offers sustainability-focused degree programs such as food sustainability and regenerative agriculture.
- [Ambrook](#): List of Agriculture Funding in Delaware (some funds are specific to green/sustainable agriculture)
- [Delaware Sea Grant](#): DESG Delaware teachers and students to make marine science and environmental literacy a priority in K-12 education.
- Other helpful links
  - [Sustainable Agriculture Programs](#)

## Resources for Educators

- Lesson plans, modules, and classroom activities
  - [NOAA Bay Backpack](#) - educational resources, action planning documents, and environmental literacy tools
  - [Journey 2050 Lesson 1: Sustainable Agriculture \(Grades 9-12\)](#)
  - [The Green Revolution](#)
  - [Sustainable Earth: Classroom activities](#)
  - [Sustainable Agriculture Lesson Plans & Online Learning](#)
  - [Urban Agriculture Lesson Plans](#)
  - [Green Our Planet](#)
  - [United Nations Sustainable Development Goals](#)
  - [Population Education](#)
  - [Tomatosphere](#)
  - [American Agriculture by the Numbers](#)
  - [Farming for the Future](#)
  - [National Geographic Map Maker App](#)
  - [Teaching with GIS](#)
    - [Farming and the Rural Landscape](#)
    - [Agricultural patterns](#)
  - [FFA Educator Resources](#)
  - [The Council Educational Resources](#)
  - [CASE 4 Learning Curriculum & Educator Resources](#)
  - [Icograms](#)

## Blogs, Articles, Publications, and other Helpful Links

- [What is Sustainable Agriculture?](#)
- [Delaware Farmers Reclaiming Their Land](#)
- [Delaware Farm as the Future of Urban Agriculture](#)
- [SARE: Advancing the Frontier of Sustainable Agriculture in Delaware](#)
- [Census Agriculture Relationship Map \(How to Use GIS\)](#)
- [USDA Technical Service Providers](#)
- [Four Indigenous Farming Practices for a Sustainable Future Today](#)

## Opportunities to Enhance the Framework's Resources

- Do you know of any resources that could be added to this framework to improve environmental literacy in the Agriculture, Food & Natural Resources Pathway? Let us know! [Lisastonertorbert@gmail.com](mailto:Lisastonertorbert@gmail.com)