V.A.

CONNECTICUT STATE BOARD OF EDUCATION Hartford

TO BE PROPOSED: May 2, 2018	
RESOLVED, That the State Board of Education add Resources (AFNR) Career Cluster Content Framewo	-
Approved by a vote of, this second day o	of May, Two Thousand Eighteen.
Signed:	Dr. Dianna R. Wentzell, Secretary
	State Board of Education

CONNECTICUT STATE BOARD OF EDUCATION Hartford

TO: State Board of Education

FROM: Dr. Dianna R. Wentzell, Commissioner of Education

DATE: May 2, 2018

SUBJECT: Adoption of the Agriculture, Food and Natural Resources (AFNR) Career Cluster

Content Frameworks, Connecticut Edition

Executive Summary

Introduction

The current Connecticut Agricultural Science and Technology Education (ASTE) Standards are based on the 2009 National Agriculture, Food and Natural Resources Standards created by the National Council for Agricultural Education (The Council). In 2015, The Council revised the 2009 national standards and released the Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Standards.

The 2015 Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Standards provide state agricultural education leaders and educators with a high-quality, rigorous set of standards to guide what students should know and be able to do after completing a program of study in each of the AFNR career pathways. Since the release of the 2015 Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Standards, the Connecticut State Department of Education (CSDE) has actively engaged stakeholders in the creation of the updated Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition.

The Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition enhances the national offerings by adding frameworks for beekeeping and maple syrup production and including two new pathways: (1) aquaculture and (2) marine trade. Additionally, the Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition include crosswalks with several key frameworks and standards including the Next Generation Science Standards, Common Core, National Standards for Financial Literacy and Green/Sustainability Knowledge and Skill Statements.

History/Background

In December 2015, the CSDE engaged the Connecticut State Consulting Committee for Agriculture Science and Technology Education in a review of the National AFNR Standards. This committee voted to support the creation of a Connecticut Framework version of the National AFNR Standards that would replace the current Connecticut Agricultural Science and Technology Education Standards.

In 2016, the CSDE began the multi-stage review and revision process seeking input and guidance from: secondary and postsecondary educators; business and industry leaders; and agriculture, agricultural science, and technology education leaders. The review and revision process focused on ensuring that the Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition:

- reflect essential and up-to-date knowledge and skills that students need to be ready for college and career in a variety of agriculture, food and natural resources fields;
- provide a sound basis upon which to design Connecticut focused agriculture, food and natural resources related courses; and
- afford a wide-ranging source for creating meaningful formative and summative assessments to measure student's attainment of essential knowledge and skills.

Because of the feedback gathered in the review process, the CSDE organized committees of experts to create two Connecticut-specific pathways and frameworks: (1) aquaculture and marine trades, and (2) beekeeping and maple syrup production.

The draft Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition, was reviewed by the following: all agricultural science and technology education programs; state and local consulting committees consisting of parents, students, and local business and industry; FFA Alumni groups; and the University of Connecticut (Appendix A). Over 200 reviewers rated the 2017 Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition a 2.9 out of three (3) and several reviewers asked that the frameworks be utilized immediately by districts.

Recommendation

The CSDE presents the "Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition" for review and consideration of adoption.

Prepared by: Harold Mackin

Education Consultant, Academic Office

Approved by: Melissa K. Wlodarczyk Hickey, Ed.D.

Reading/Literacy Director

Agriculture, Food & Natural Resources Career Cluster Frameworks Connecticut Edition Stakeholder Engagement/Review

Appendix A

State Consulting Committee for Agricultural Science and Technology Education December 2, 2015 AFNR Review Kevin Farr, Superintendent Killingly Schools Jaunice Edwards ASTE Department Heads/Directors Group Katie Golembeski ASTE Parents Connecticut Association of Agricultural Educators Joseph Barsky Milton Natusch Connecticut FFA Executive Secretary Harold Mackin CSDE Dr. Pat Jepson UCONN College of Agriculture, Health and Natural Resources May 9, 2017 AFNR Update Robert Angeli Superintendents of ASTE Centers Jusin Ferreira Connecticut State FFA President Harold Mackin CSDE Joseph Barsky Mitton Natusch Connecticut State FFA President Connecticut State FFA President May 9, 2017 AFNR Update Robert Angeli Superintendents of ASTE Centers Justin Ferreira Connecticut State FFA President CSDE Connecticut State FFA President ASTE Department Head/Directors Group November 16, 2016 and May 18, 2017 Jaunice Edwards Bloomfield ASTE Lea Catherman Bridgeport Aqua Jenifer Pantazis Glastonbury ASTE Mark Burdock Region 1 ASTE Mark Burdock Region 1 ASTE Ken Couture Killingly ASTE Devon O'Keefe Ledyard ASTE Lyman Hall High School ASTE	Organization	Audience	
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Devon O'Keefe Ledyard ASTE	Mark Burdock	Region 1 ASTE	
	Ken Couture	Killingly ASTE	
Rebecca Rose Lyman Hall High School ASTE	Devon O'Keefe	Ledyard ASTE	
	Rebecca Rose	Lyman Hall High School ASTE	

Agriculture, Food & Natural Resources Career Cluster Frameworks Connecticut Edition Stakeholder Engagement/Review

Appendix A

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Brenda Wildes	Lebanon ASTE	
Rebecca Isaacson	Middletown ASTE	
Bill Davenport	Region 14 ASTE	
Mia Haaland	Region 7 ASTE	
Karen Fitzpatrick	Vernon ASTE	
Tim Visel	Sound School ASTE	
Marion Stannard	Southington ASTE	
Laura LaFlamme	Suffield ASTE	
Pam Berlekovic	Trumbull ASTE	
Dr. Robert Tremaglio	Trumbull ASTE	
Charles Rowland	Region 6 ASTE	
Virginia Hamilton	Stamford ASTE	
National Expert Review		
The National Council for Agriculture Education	Appendix B of the Agriculture, Food & Natural Resources Career Cluster Frameworks, Connecticut Edition	
Revising National AFNR Career Cluster Standards to Connecticut Edition, AFNR Career Cluster Frameworks		
August 23, 2016 - November 29, 2016	N	
Bridgeport Aqua Staff	Marine Trades and Aquaculture	
Sound School Staff	Marine Trade and Aquaculture	
Karen Davenport	Animal Science	
David Moran	Plant Science	
Matt Smith	Natural Resources & Aquaculture	
Kathryn Dal Zin	Animal Science	
Emily Picard	Natural Resources	
Brenda Wildes	Animal Science	
Geoff Picard	Natural Resources & Aquaculture	
Mark Burdock	Agriculture Mechanics	
Mike Kingsbury	Agriculture Mechanics	
Amanda Thompson	Animal Science	
Rebecca Isaacson	Plant Science	
Ed Belinsky	Agriculture Mechanics	
Marion Standard	Plant Science	
Patrick O'Keefe Pam Berlekovic	Agriculture Mechanics	
Pam Kerlekovic	A	
Victoria Christian	Animal Science Natural Resources	

Agriculture, Food & Natural Resources Career Cluster Frameworks Connecticut Edition Stakeholder Engagement/Review Appendix A

Surveys 2016 and 2017	
Surveys were given to stakeholder groups,	
students, parents agriculture businesses,	
farmers by ASTE Department Heads	



CONNECTICUT STATE DEPARTMENT OF EDUCATION

Connecticut State Board of Education

The Agriculture, Food and Natural Resources (AFNR) Career Cluster Content Frameworks, Connecticut Edition

May 2, 2018

The National Agriculture, Food and Natural AFNR Career Cluster Content Frameworks

Connecticut National Subject Matter Experts

Name	Organization	Title
Cynthia Chotkowski Jen Cushman	EO Smith High School Glastonbury High School	Animal Science Teacher Head ASTE Teacher
Emily Picard	Lyman Hall ASTE	Agriscience Teacher
Harold Mackin	CSDE	ASTE Consultant
George Lyman	Regional #14	Natural Resources
Laura LaFlamme	Suffield ASTE	ASTE Director/ Teacher



Three Component Model of Agriculture Education

Agricultural education instruction is delivered through three major components:

- Classroom/Laboratory instruction (contextual learning);
- Supervised Agricultural Experience programs (work-based learning); and
- Student leadership organizations (National FFA Organization, National Young Farmer Educational Association and National Post-secondary Agricultural Student Organization).



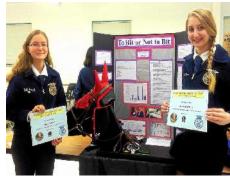
SUPERVISED AGRICULTURE EXPERIENCE (SAE)

CLASSROOM/ LABORATORY

LEADERSHIP (FFA)





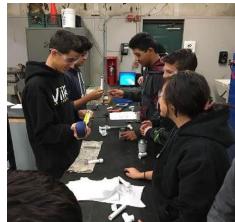














AFNR Career Cluster Content Frameworks, Connecticut Edition

- 1. Agribusiness Systems
- 2. Animal Systems
- 3. Aquaculture
- 4. Biotechnology Systems
- 5. Environmental Service Systems
- 6. Food Products and Processing Systems
- 7. Marine Trades
- 8. Natural Resource Systems
- 9. Plant Systems
- 10. Power, Structural and Technical Systems





CROSSWALKS

APPENDIX C: EXAMPLE CROSSWALKS

A goal of the 2015 revision of the Agriculture, Food and Natural Resource Career Cluster Content Standards was to identify strategies for encouraging the adoption and use of this body of work. In addition to the revisions to update the technical content and improve clarity and consistency, the AFNR content standards were also cross-walked with several key frameworks to assist with state and local implementation.

Standards in the following key frameworks were cross-walked to the performance indicators in the AFNR Career Cluster Content Standards:

Common Core English Language Arts & Literacy

English Language Arts Standards. (2010, June 2). Retrieved February 25, 2015, from http://www.corestandards.org/ELA-Literacy/.

Common Core Mathematics

Mathematics Standards. (2010, June 2). Retrieved February 25, 2015, from http://www.corestandards.org/Math/.

Next Generation Science Standards

DCI Arrangements of Standards | Next Generation Science Standards. (2013, November). Retrieved February 25, 2015, from http://www.nextgenscience.org/search-standards-dci.

Green/Sustainability Knowledge and Skill Statements

Proposed Green/Sustainability Knowledge And Skill Statements. Version 2. 2012. Web. 25 Feb. 2015.

National Standards For Financial Literacy

National Standards For Financial Literacy. New York: Council for Economic Education, 2013. Web. 25 Feb. 2015.

In order for a crosswalk to be established, the content of the cross-walked standard must be explicitly taught in order to attain the related Performance Indicator in the AFNR Content Standards given the stated sample measurements. Educators in the field of science, math and language arts reviewed and provided formative feedback on all crosswalks to help confirm their face validity.

The crosswalks identified are not a finite list of all potential crosswalks. They are based upon the sample measurements identified for each of the performance indicators. If states or local educators edit or add to the stated sample measurements to meet local needs or emphasize specific academic content additional crosswalks may be identified.

APPENDICES | © 2015 THE NATIONAL COUNCIL FOR AGRICULTURAL EDUCATION PAGE | 165

