



Developing Teaching Modules to Compliment Curricula



Jill Heemstra,
University of Nebraska
Tommy Bass,
Montana State University


Building Environmental Leaders in Animal Agriculture (BELAA)
USDA NIFA – Beginning Farmer and Rancher Development Program



BELAA

- Funding: USDA NIFA
- PI: University of Nebraska
- Co-PI: Montana State University
- Co-PI: Young Farmer’s Educational Association
- Advisory committee and mini-grant partners


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- Premise – new and beginning producers, should not be hindered because of fear or lack of knowledge of environmental issues
- Audiences – all beginning farmers and ranchers
 - however, today we focus on young adults and secondary/postsecondary students

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Broad Set of Products

- Live trainings and presentations with NYFEA partners
- Presentations and workshop to/with fellow BFRDP awardees
- **Web-based modules for use in HS, collegiate, young adult ag ed classroom contexts, and professional development**

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Complimenting Curricula

- Curricula, teaching standards, and lesson plans already exist
 - Ag teachers less confident in teaching environmental topics
 - Materials designed as drop in modules
 - Current real-world scenarios related to environmental management of livestock and poultry

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Module Format

- Brief narrative
- Editable companion ppt
- References
- Quiz questions and assignments
- Debate and discussion questions
- Larger project suggestions
- Video-clips
- Example job and career list


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Available Modules

- Manure Management 101
- Developing an Environmental Policy Statement
- Water Quality Regulations
- Greenhouse Gases
- Managing Manure Nutrients
- Small Scale Poultry Production
- Small Scale Sheep & Goat Production
- Carcass Management


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AFNR – Career Cluster Content Standards

- By the National Council for Agricultural Education
- Principles or competencies for development of aged curricula and teaching standards
- Coded reference system
 - Recognizing this system and cross-referencing was purposeful


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AFNR – Career Cluster Content Standards

- AFNR Life Knowledge and Cluster Skills, plus eight pathways, such as:
 - Agribusiness Systems
 - Animal Systems
 - Environmental Service Systems
 - Natural Resource Systems

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Example

- CS.06. Performance Element: Examine the importance of health, safety, and environmental management systems in organizations and their importance to performance and regulatory compliance.
 - CS.06.01. Performance Indicator: Observe required Regulations to maintain/improve safety, health and environmental management systems.
 - CS.06.02. Performance Indicator: Develop a plan to maintain and improve health, safety and environmental compliance and performance.
 - CS.06.03 Performance Indicator: Provide health, safety, and environmental operating guidelines



Example

- CS.06. Performance Element: [Examine the importance of health, safety, and environmental management systems in organizations and their importance to performance and regulatory compliance.](#)
 - CS.06.01. Performance Indicator: [Observe required Regulations to maintain/improve safety, health and environmental management systems.](#)
 - CS.06.02. Performance Indicator: [Develop a plan to maintain and improve health, safety and environmental compliance and performance.](#)
 - CS.06.03 Performance Indicator: [Provide health, safety, and environmental operating guidelines.](#)



Conclusions

- Robust materials ready for deployment
 - Publicly available
- Ag Ed teachers seemed very interested in “real-world” modules
- Additional marketing needs to be done
- Additional modules could be developed with support

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