Guidelines for Developing Instructional Modules to Improve Students' Communication Skills

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Background

 Increasing expectations for faculty to incorporate communications curriculum

 Communications skills critical for industry: Challenges in communicating with lawmakers and public



Hot Topics in Agriculture

"pink slime"

Using herbicides and pesticides on crops

GMOs

Mass-production of certain crops

Raising poultry and swine in enclosed areas

"free range" vs. "organic" vs. "pasture-raised" labels on products "Students have developed bad [communication] habits due to the use of Twitter and such, which needs to be addressed." Faculty06

"We need graduates who can use proper grammar and punctuation—not slang from the text environment."

Industry03

The Problem



Faculty

(Agricultural & Food Sciences)

Experts in specific sciences

Not necessarily experts in teaching methods or teaching communication skills

The Solution



Faculty

(Agricultural & Food Sciences)

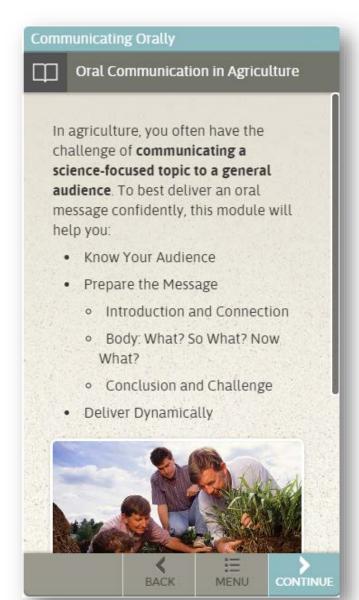
Experts in specific sciences

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Create Reusable Learning Modules

Reusable Learning Modules

- Reusable Learning Object
 (RLO) is a digital resource that can be used in multiple courses
- However, adoption can be challenging if modules don't meet faculty delivery needs
- Purpose of the study: Gather faculty and industry input on best <u>delivery methods</u> and contextual content



Methods

- Qualitative interviews via phone
- 3 industry leaders + 7 faculty members
 - Potential use of modules
 - Content topics
 - Best practices for delivery
 - Best practices for content



Results: Design Considerations

- Respondents provided five design considerations:
 - 1. Context-specific examples
 - 2. Easy-to-use format
 - 3. Engaging content
 - 4. Method for tracking completion
 - 5. Facilitator guide
- Critical that examples accurately reflect industry experiences:
 - Effective executive summaries, engaging presentations, concise emails preferred over long term papers

Context-Specific Examples

Communicating Orally

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Worksheet Activity: Select a Topic

Read through the following agricultural issue descriptions and select one to deliver a 5-8 minute speech on at the end of the module. These topics are provided to give you a starting point. You may select a different topic base supon your own experience.

- Animal Science:
 - Spread of zoonot, disease.
 - Global population with and food security.
- Plant Science:
 - GMO labeling.
 - Dependency on undo umented immigrant labor.
- Poultry Science:
 - Leg and skeletal a formalities in birds raised for meat.
 - Increasing fee costs and availability.

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Antmot Agriculture

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Communicating Orally: Speech Topic Descriptions

- Animal
- Plant/Horticulture
- Poultry

"Make sure they have practical knowledge." – Faculty03

Write your selection in Part 2: Select a Topic: Agricultural Issues on your worksheet:

"...opportunity to look at a real world scenario. I have found the students respond well to this." – Faculty05







Easy to Use Format & Method for Tracking "The most important Completion

The most important aspect is easy accessibility." – Faculty06

Modules created in StepStone

SCORM files published and put online

Faculty upload files to course & track completions

"How the modules are delivered will make a difference." – *Industry01*



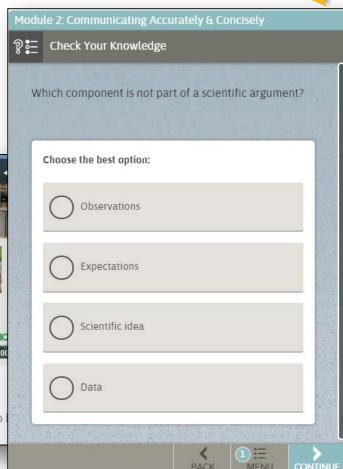


Engaging Content

- Worksheets
- Short videos
- Embedded quiz questions
- Assignments



"The more engagement and interest that can be added, the better." – Faculty04



Facilitator Guide

- Developed for each module
- Available for download with SCORM files
- Allows instructor to use without viewing entire module
- Contains:
 - Description of module and learning outcomes
 - Copy of all handouts/documents used in module
 - List of assignments/activities to choose from

Communicating Appropriately and Professionally Using Social Media: Instructor Guide

This module provides students with an overview of how to communicate appropriately and professionally using social media. The module includes content related to effectively communicating through social media within the context of animal science, poultry science, and plant science. Students have access to exercises within the module and instructed to record their answers within the Worksheet. As the instructor, you can use the entire module or pieces of the module. Additionally, you can use the context only within animal, poultry, or plant science, or within all three contexts.

Learning Outcome: Students will be able identify agricultural brands that have effectively positioned themselves in the digital environment; develop scientific, evidence-based information for delivery on social media platforms; defend agricultural issues on social media platforms using evidence-based arguments; and analyze agricultural issue arguments

The following is a list of activities that are included in the Communicating Orally module. You can use as many or as few of these activities as is needed for your course. The module will instruct the students to "follow your course instructor's guidelines for submitting this assignment".

- 4-page Communicating Appropriately and Professionally Using Social Media Worksheet (fillable PDF form): Answer key included in this packet.
- Online module with embedded quiz
- Additional assignments: Descriptions included in this packet.
 - o Defending Agricultural Issues on Social Media Platforms
 - o Analyzing Agricultural Issue Arguments on Social Media Assignment
 - o Brand Social Media Case Study Presentation

"The instructor guide is good— because you can go back and look at those" - Faculty01



Conclusions

- Faculty and industry personnel shared 5 main design considerations to be incorporated for these RLMs:
 - 1. Context-specific examples
 - 2. Easy-to-use format
 - 3. Engaging content
 - 4. Method for tracking completion
 - 5. A facilitator guide
- Conducting continuous review with this group
- Creating 7 modules

Discussion



Institutions continue to request writing-/communication-intensive courses



Additional instructional responsibilities placed on agricultural and food sciences faculty



Faculty must have access to resources for content and delivery to meet demands

Thank you!

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