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Successful Strategies for Producing and Teaching with Video

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Land Grant University

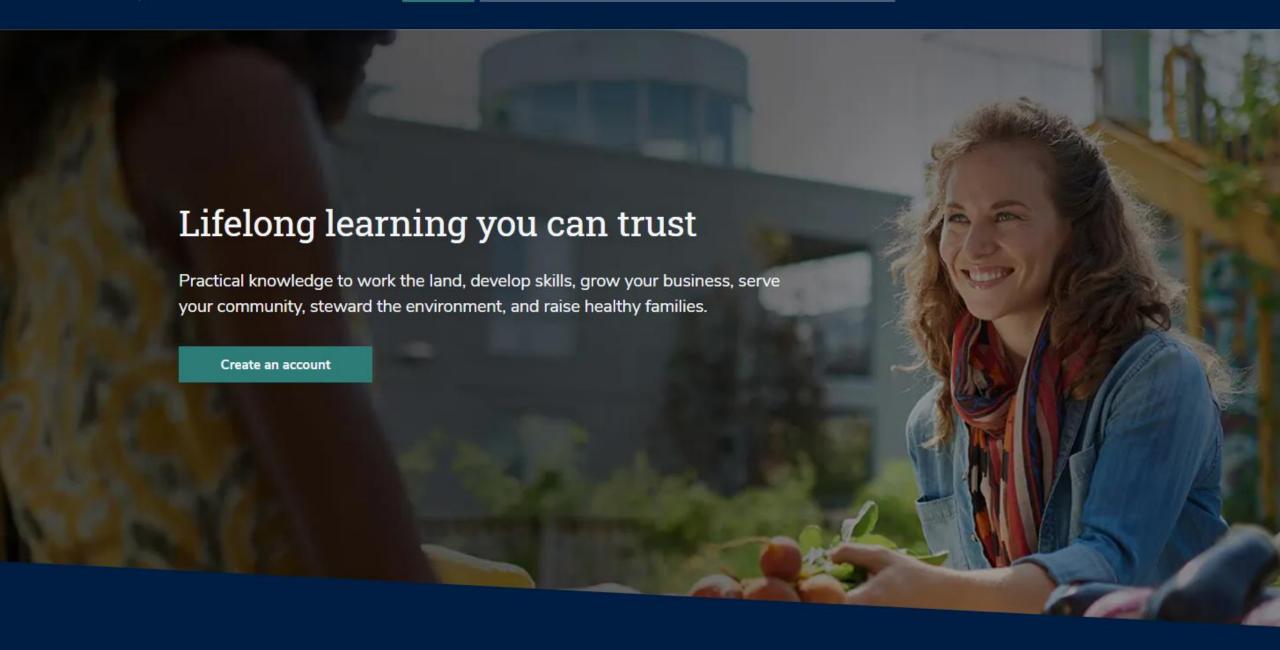
"To teach, to conduct research, and to provide service to communities"











Videos in the Series



Common Respiratory Diseases of Small Poultry Flocks

Length: 00:07:57 | Eva Wallner-Pendleton, DVM, MS, ACPV

Learn about causes and symptoms of several common respiratory diseases of poultry, and the prognosis and possible treatments for each.



Preventing Respiratory Disease in Small Poultry Flocks

Length: 00:09:15

To prevent respiratory disease, start with healthy birds and avoid introducing sick birds. Learn how to purchase healthy birds and add them to your flock.

Description

Instructors

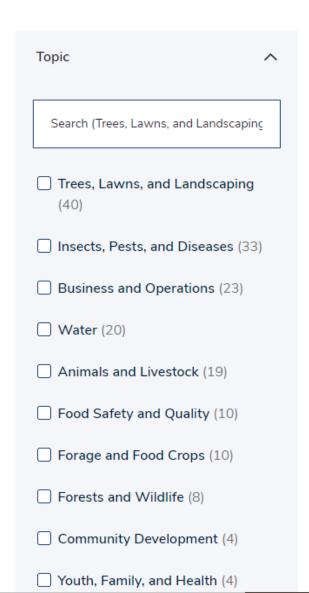
Reviews

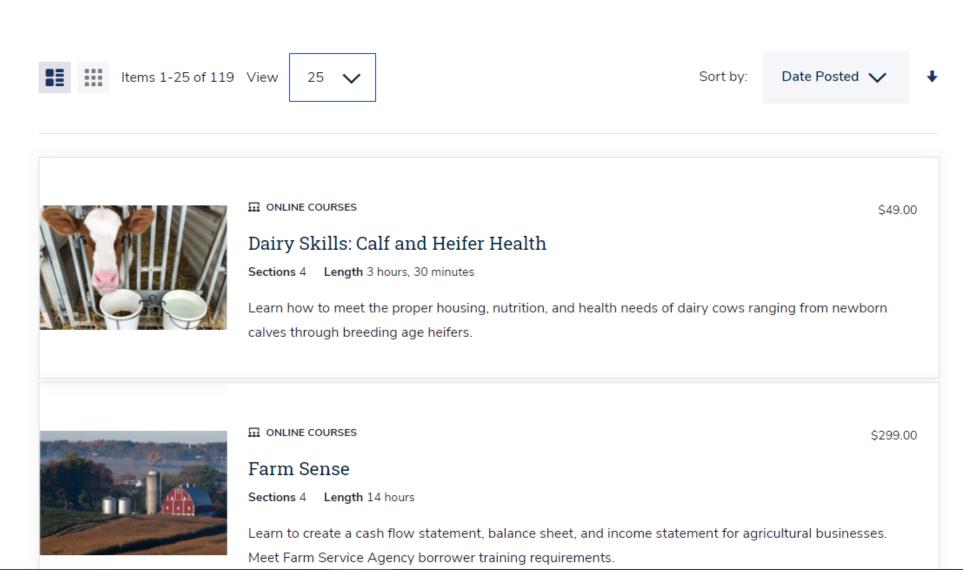
FAQs

In this series of videos, you will learn about common poultry respiratory diseases, where to find help when your birds have respiratory symptoms, and how to avoid these health



Online Courses







Today

- Why We Teach with Video
 - Audience and Learning Outcomes
 - Benefits for Learners
- How We Teach with Video
 - Best Practices
 - Production Processes
- Discussion and Thoughts



Audience and Learning Outcomes



Audience and Learning Outcomes

Who they are

Motivation for learning

What they already know

What do we want them to know

Asynchronous course environment



Personal / Hobby

1: Backyard Poultry Basics

- 1.1 Introduction
- 1.2 Why do People Raise Poultry?
- 1.3 Considerations Before You Start
- 1.4 Getting Started With Backyard Poultry
- 1.5 Section Reflection
- 2: Selecting Poultry
- 3: Best Management Practices
- 4: Biosecurity, Disease Control, and Health
- 5: Poultry for Egg Production
- 6: Poultry for Meat Production
- 7: Poultry for Exhibition and Pets
- 8: Flock Data Collection and Record Keeping

1.4 Getting Started With Poultry

You have decided that you want to raise poultry in your backyard. Now what?

Watch this video to learn what you need to consider next and where to find the information you need.

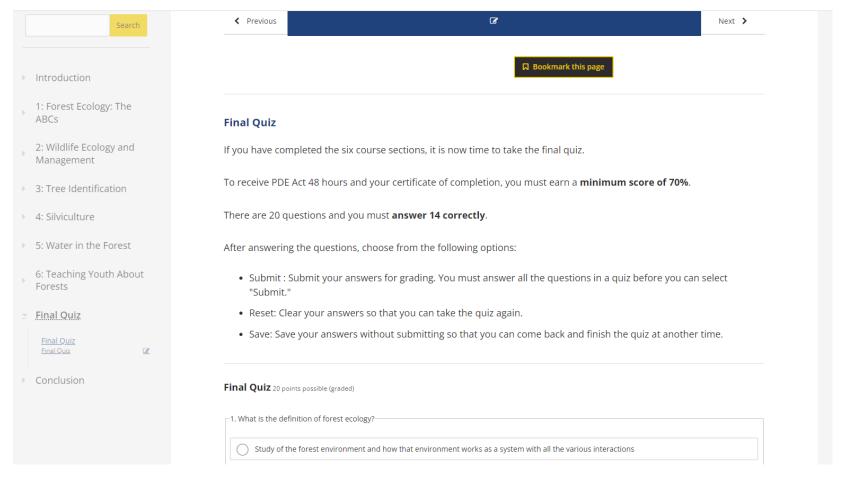
Getting Started With Poultry (Runtime 2:48)

Getting Started With Poultry





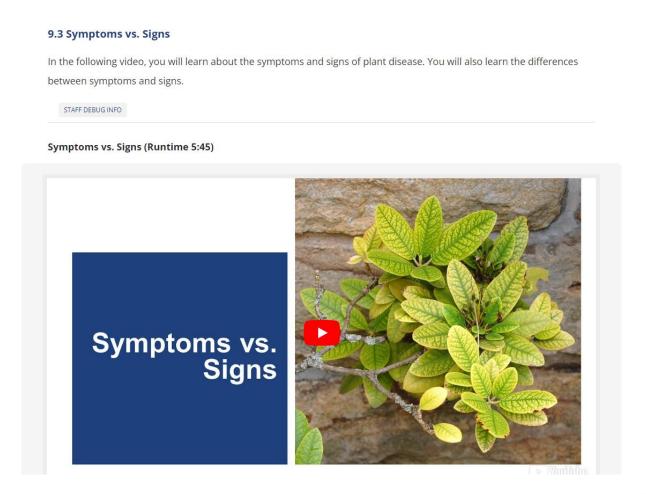
Professional Development





Training / Workforce Development







Why Not Lecture-Style Videos

Videos too long

Too much text on screen (does not match narration)

Poor image size, quality, quantity

Issues with copyright

Poor narration and audio quality

Issues with accessibility



Redesigning PPTs and rewriting scripts



Benefits for Learners



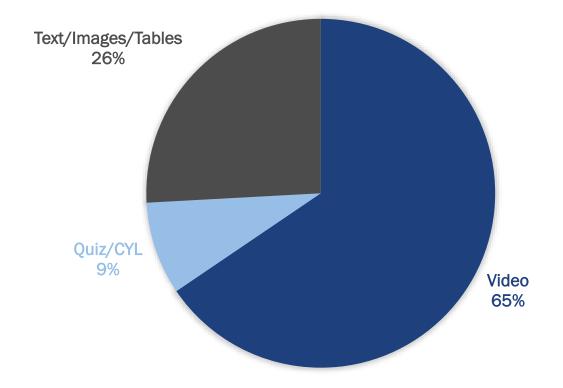
Benefits for Learners

Pest Management for Pesticide Applicators
Section 5.1 "Pesticide Resistance"



Why

HOURS OF COURSE CONTENT (580)





Today

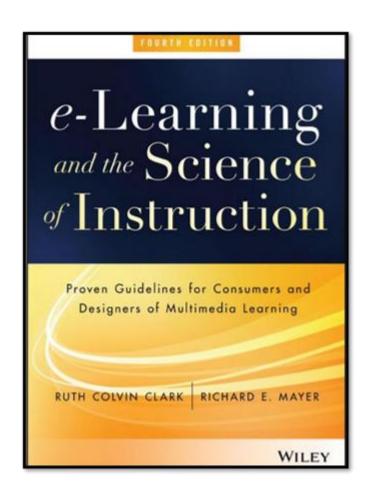
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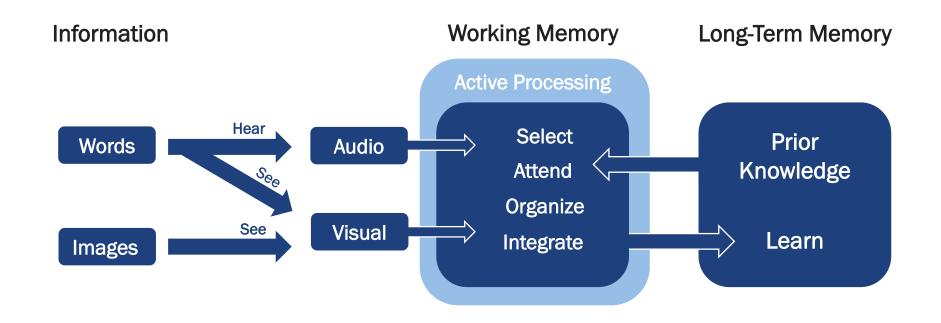
Best Practices



Multimedia







Cognitive Theory of Multimedia Learning

When audio and visual channels work together, learning and understanding are more complete.

If there is too much to process at once, less of the material is learned (cognitive overload).



Best Practices

From Spotted Lanternfly Permit Training for Businesses: Pennsylvania Section 3.3 "Egg Masses: Seek and Destroy"



Best Practices

Design for specific audience and learning outcomes

Chunk and scaffold content

Use simple, explicit instruction

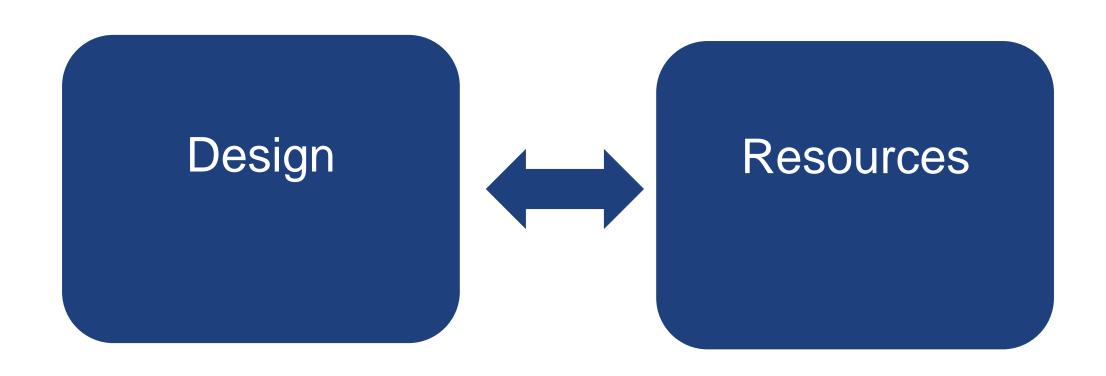
Use multiple modes of learning that enhance one another

Provide opportunity to practice

Use personalization: visible authors, examples, stories



Balance



Production Processes

Pre-Production

During-Production

Post-Production



Pre-Production

Audience

Learning outcomes

Scope

Narration (scripting)

Visuals





Storyboard Example

Ruminant Nutrition [5:27]

Recording notes: centered, OTS

Sequenc	Potential Images, Video Clips,	Potential Narration
e	Graphics, Text	
1 (title)	Ruminant Nutrition	
	Forage Quality	
	I: Healthy cows eating	
2	I: 2 to 3 representing various	Ruminant animals are somewhat unique in their ability
	ruminant animals	to use forage as their primary feed. However, the
		quality of that forage will impact animal performance.
3	[OTS]	I'm Dr. Jessica Williamson, the Penn State Extension
	As lower third	Forage Specialist, and I want to talk about forage
	Dr. Jessica Williamson, Penn State	quality.
	Extension	
4	[OTS]	Forage quality should not be confused with forage
	Forage Quality <u></u> Forage Nutritive	nutritive value.
	Value	
5	WB: chemical composition	Forage <u>nutritive value</u> generally refers to the chemical
		composition of the plant itself – the energy, crude
		protein, and fiber components – things you might
		expect to see on an analysis of your forage, for
		example.
6	WB: forage quality	Forage <u>quality</u> refers to a broader definition that not
		only includes forage nutritive value, but also forage
		intako and palatability. Forago quality is more reflective

7	[centered]	Forage quality is thus relative to the nutritional needs of the class of livestock that is consuming it. For example,
8	https://psu.app.box.com/file/3916 73255557 https://psu.app.box.com/file/4117 14991305 Have images side by side; use a callout when narration talks about each image.	the sheep on the left is in mid-gestation and is fully mature and not in lactation; however, the heifer on the right is still growing—in addition to trying to support a pregnancy.
9	V: animal grazing clips in field identified with correct forages; educator to determine location	Thus, the heifer's nutritional needs far surpass those of the mature ewe on the left. Because of this, the quality of forage they consume should be adequate to meet each of their individual needs.
10	https://psu.app.box.com/file/4154 32839064 Animate image of plant for zooming.	At the early stage of growth, plants are vegetative and have very high crude protein and energy concentrations, and the forage quality overall is very high. The digestibility of plants depends greatly on the stage of maturity, the species, and the variety of the plant itself.
11	Above graphic: begin zooming from plant to cells.	This is because plants are made up of millions of cells, and within those cells there are cell contents that

Spend the most time in pre-production.



During-Production

Studio processes

- Studio SOPs and checklists
 - Setup: studio, camera, lighting, audio
 - Staffing: roles







During-Production

Talent and performance

- Teleprompter
- Talent coaching
 - Conversational
 - Practiced
 - Engaging inflection
 - Body language





Use a teleprompter for efficiency.

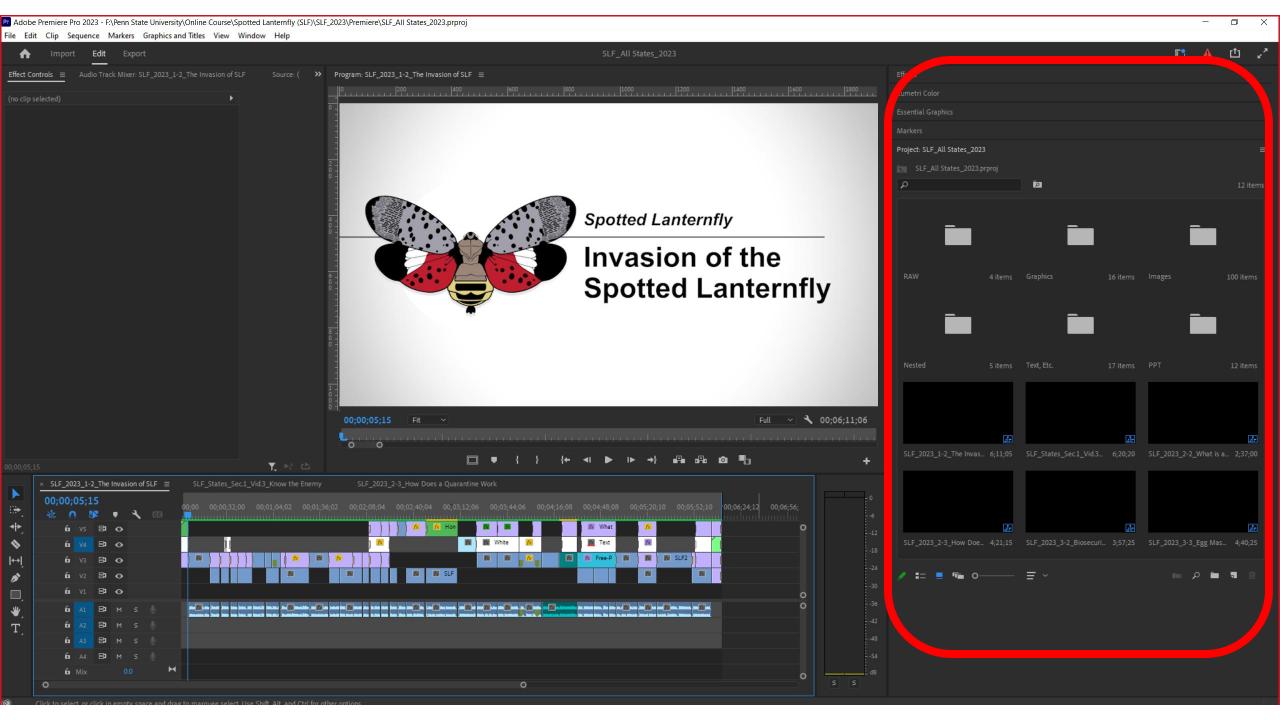


Post-Production

Editing

- Videographer processes recording, corrects audio and lighting
- Completion of graphics / animations
 - Future graphics library
- 4 MMSs = 1 editing software
 - Pre-set styles (font, size, callouts)





Post-Production

Video review and finalization

- One round of revisions
- Video review template



Video Review Instructions

Your instructional designer has completed a review of each video. Now it's your turn.

- · Watch the video.
- List your potential revisions.
- If you agree with the ID's comment/revision, you can choose to write agree or leave it blank. If
 you leave it blank, the ID and MMS will assume you agree with the revision.
- If an MMS is unable to make the revision as indicated or if there are additional concerns, the MMS will make a note.
- If a video doesn't have any revisions, say "Ready for upload."

If you have any concerns, questions, or issues, please talk with your instructional designer.

Video Name (Example)

ID Comments/Revisions	Educator	MMS Notes
	Comments/Revisions	
<u>@:</u> 18 – clean up transition. It	Agree	
stutters.		
@:56 clean up jump cut after		
transition		
@1:02 zoom out on image	@1:02 replace image with	
	(give Box link)	

"The storyboard wins."



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"Helpful course with great detailed videos. Wellpresented course, easy to get an idea of what it wanted the trainer to learn. Perfectly explains how to observe the insect & what steps to take to prevent it."



Discussion and Thoughts

What did you learn?

What might you apply to your work?

Questions?





Contact Me

Rebecca Rumbel (rar160@psu.edu)

Credits

All images and screenshots from Penn State

except:

e-Learning and the Science of Instruction: Proven Guidelines for Consumers and Designers of Multimedia Learning Clark, R.C. and Mayer, R.E.



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