



CFSPH Education and Training Catalog Spring 2023

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IOWA STATE UNIVERSITY®
College of Veterinary Medicine

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CFSPH RACE®*-Approved Continuing Education Courses

CFSPH has a number of web-based continuing education courses addressing animal diseases and prevention for veterinary and animal health professionals and students, emergency management and response personnel, and human health care professionals. These courses have been approved by the American Association of Veterinary State Boards (AAVSB) Registry of Approved Continuing Education (RACE®) for continuing education (CE) credit in jurisdictions that recognize RACE® approval and are summarized below. For more information, visit [CFSPH Courses](#).

Educational Course/Material	Delivery Method	Instructor or Self-guided	RACE® CE Credits	Cost
Animal Disease Emergencies: Understanding the Response	Interactive web-based course	Self-guided	4	\$100
Biosecurity in Livestock and Poultry Production Basic and Advanced course available	Interactive web-based course	Self-guided	3 (Basic) 6 (Advanced)	FREE
Cleaning and Disinfection in Animal Settings	Interactive web-based course	Self-guided	4	FREE
Introduction to Iowa's Farmed Cervid CWD Program	Interactive web-based course	Self-guided	2	FREE
Introduction to Veterinary Immunology	Web-based course with narrated PowerPoints	Self-guided	5	\$225
Principles of Veterinary Immunology	Web-based course with narrated PowerPoints	Self-guided	13.5	\$575
Principles of Veterinary Vaccinology	Web-based course with narrated PowerPoints	Self-guided	5	\$225
Transboundary and Emerging Diseases of Animals (TEDA)	Interactive web-based course	Instructor-led; self-guided	39	\$300
Veterinary Biologics Training Program	Annual in-person program with lectures and workshops	Instructor-led	35	See website
Zoonoses: Protecting People and Animals in Rural Communities	Interactive web-based course	Self-guided	5	\$125
Zoonoses: Protecting People and Their Pets	Interactive web-based course	Self-guided	10	\$250

*RACE = Registry of Approved Continuing Education <https://www.aavsb.org/race/>

Continuing Education Course Descriptions

Animal Disease Emergencies: Understanding the Response

This awareness level course is designed for anyone who may be involved in an animal disease response, including veterinary and animal health responders, livestock or poultry industry groups, producers, and traditional responders (e.g., emergency management, law enforcement, fire and public health professionals). The course provides a basic overview of the steps and actions needed to detect, contain, and control livestock and poultry disease emergencies. Case studies on foot-and-mouth disease, avian influenza, African swine fever, New World screwworm, and virulent Newcastle disease are included. The course has been RACE®-approved for 4 hours of CE credit.



Biosecurity in Livestock and Poultry Production

Two courses provide species-neutral training on biosecurity for veterinarians and veterinary technicians. The basic course introduces biosecurity concepts and provides an overview of biosecurity risk factors. It is RACE®-approved for 3 hours of CE. The advanced course covers all content from the basic course and information on assessing risk and developing, implementing, and evaluating a biosecurity plan. It is RACE®-approved for 6 hours of CE credit.



Cleaning and Disinfection in Animal Settings

This course provides a comprehensive look at the considerations for establishing and implementing cleaning and disinfection (C&D) procedures in animal settings. Ten interactive lessons cover topics such as key principles of disinfection, how to select a disinfectant, setting up a C&D program, regulations, and health and safety during C&D. Veterinarians and veterinary technicians learn from practical examples for livestock production, veterinary clinics, and disease outbreak settings. The course is RACE®-approved for 4 CE credits.



Introduction to Iowa's Farmed Cervid CWD Program

This course is available in two versions, one for veterinarians and one for cervid producers in Iowa. Both courses provide an overview of chronic wasting disease (CWD), how to participate in Iowa's Cervid CWD Surveillance Identification (CCWDSI) Program, and how to collect appropriate samples for CWD herd surveillance testing. The veterinary course has been RACE®-approved for 2 hours of CE credit. Cervid producers can freely access the course and can take and pass an end-of-course quiz to earn a certificate of completion.



Transboundary and Emerging Diseases of Animals

The Transboundary and Emerging Diseases of Animals (TEDA) course is used by all U.S. veterinary schools and is part of Initial Accreditation Training, a requirement of the USDA National Veterinary Accreditation Program (NVAP). It is offered annually for up to 39 hours of CE credit for veterinarians,



veterinary technicians, and any other individuals interested in high consequence animal diseases and the response to such diseases. The course consists of overview lessons, descriptions of real-life TEDA outbreaks, hypothetical disease outbreak scenarios, short exercises (infectious inquiries) that require searching databases for information on foreign animal diseases, and many other useful resources. <https://www.cfsph.iastate.edu/product/teda-course/>

Enfermedades Transfronterizas de los Animales

In 2009, the USDA International Services provided funding for a Spanish language version of the TEDA course. The content has been adjusted and adapted to better represent the realities of the region. For example, two additional modules covering bee and shrimp diseases were added. It has been offered in many countries in Latin America.



Veterinary Biologics Training Program

This face-to-face program has been offered since 1996 (except 2020) in Ames, Iowa. The program consists of lectures and workshops that covers the USDA regulatory process for assuring the purity, safety, potency, and efficacy of veterinary biologics. The program and has been RACE® approved for 35 hours of CE credit.



**VETERINARY
BIOLOGICS
TRAINING
PROGRAM**

Veterinary Immunology and Vaccinology

Three courses on veterinary immunology and vaccinology are offered, ranging from an introductory course to two advanced level courses. Participants must pass quizzes in order to receive a certificate/CE.

Introduction to Veterinary Immunology

This 4.5-hour course provides an introduction to veterinary immunology and vaccination and is developed for a general audience. Printed materials are included. The course is RACE®-approved for 5 hours of CE credit for veterinary professionals.



Principles of Veterinary Immunology

This course provides an overview of veterinary immunology with an emphasis on infectious diseases. It includes over 11 hours of online video lectures and printed study materials covering innate and adaptive immunity, effector functions and how it eliminates pathogens, and vaccine safety and efficacy. The course is RACE®-approved for 13.5 hours of CE credit for veterinary professionals.

Principles of Veterinary Vaccinology

This course provides an understanding of how vaccines prevent disease, why vaccines sometimes fail to protect from disease and occasionally cause adverse reactions. It contains four hours of video lectures plus printed materials. The course is RACE®-approved for 5 hours of CE credit for veterinary professionals.

Zoonoses: Protecting People and Animals in Rural Communities

This course is designed for animal health, human health, or public health professionals or students interested in the prevention of zoonotic diseases. It overviews the occurrence and impact of zoonotic diseases of agricultural animals, providing lessons and scenarios on diseases such as cryptosporidiosis, salmonellosis, swine influenza, and rabies. Lessons are offered in a variety of formats (e.g., short video lectures, audio podcasts, and PDF. Each lesson takes approximately 60 minutes to complete. This course has been RACE®-approved for 5 hours of CE credit.



Zoonoses: Protecting People and Their Pets

This course provides an opportunity for veterinary and human health care professionals and students to refresh and gain knowledge of key zoonotic diseases of companion animals. The course covers the etiology and prevention of these diseases, emphasizing the importance of the human-animal bond. Case studies are provided to highlight key zoonotic disease prevention measures. This course has been RACE®-approved for 10 hours of CE credit.



Self-Guided Educational Training and Resources

CFSPH has developed educational resources ranging from factsheets and PowerPoints to podcasts for self-study. These materials can be used during training exercises and shared with veterinary and animal health professionals, students, and animal owners as well as emergency management, human health care, and emergency responders. All are available for free.

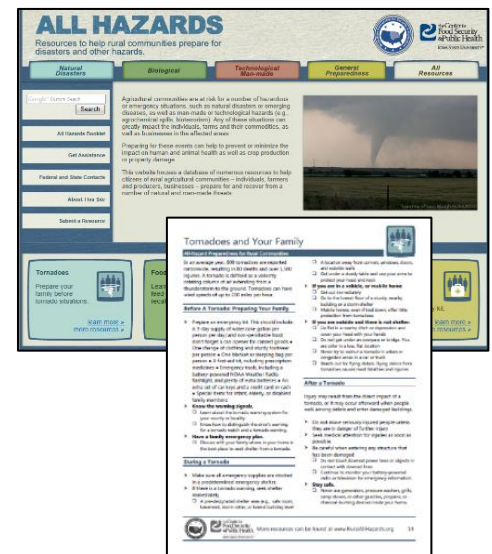
Title	Delivery Method	Spanish Available
<u>All-Hazards Preparedness for Rural Communities</u>	Educational factsheets	No
<u>An Introduction to Animal Husbandry and Nutrition</u>	Downloadable document	No
<u>Bring Home the Blue, Not the Flu!</u>	Interactive web-based course and activity guides for youth 7-18	Yes
<u>¡Gana un Premio. No Traigas la Gripe!</u> (Spanish version of Bring Home the Blue, Not the Flu!)	Interactive web-based course and activity guides for youth 7-18	Yes
<u>Foreign Animal Disease Preparedness and Response Plan (FAD PReP)</u>	Technical guidance documents and annotated PowerPoints	No
<u>Just-In-Time Training for Animal Health Emergencies</u>	Narrated podcasts, annotated PowerPoints and review handouts	No
<u>Secure Food Supply Plans</u>	Technical guidance, handouts, videos, and forms	Yes (Secure Poultry Supply)
<u>The Livestock Project: Supporting organic/alternative agriculture</u>	Downloadable overview course, handouts, and blog posts	No

All-Hazards Preparedness for Rural Communities

The All-Hazards (Prep4AgThreats) website houses a database of resources to help families, farmers and producers, and businesses in rural agricultural communities prepare for and recover from natural and man-made threats. Educational handouts, checklists, and a preparedness booklet are available for download to help animal owners prepare for hazardous events.

Topics include:

- **General Emergency Preparedness** for families, pets, livestock, farms, and businesses
- **Natural Disasters:** Floods, severe thunderstorms, tornadoes, excessive heat, drought, winter storms, and wildfires
- **Biological Emergencies:** Pandemic influenza, emerging diseases, and food safety recalls
- **Technological and Man-made Events:** Bioterrorism threats, agrochemical hazards, and power outages



Bring Home the Blue, Not the Flu!

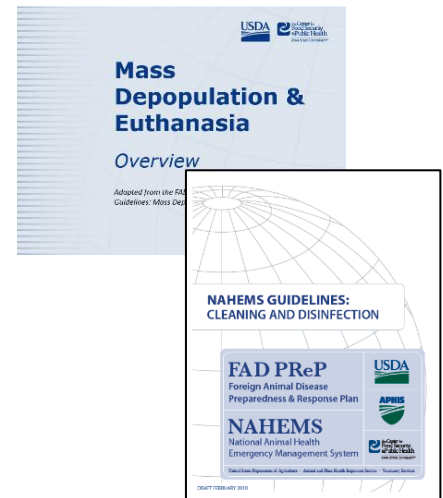


Two free, highly interactive, online courses, one for elementary aged youth (ages 7-12) and one for middle-high school aged youth (ages 13-18), are meant to encourage showmanship and animal involvement while keeping both animals and humans safe and healthy. The National 4-H peer-reviewed courses teach youth in animal agriculture about zoonoses, disease risks and prevention, and career opportunities in One Health. The materials were developed in collaboration with the Iowa Department of Health and Human Services and the Iowa Department of Agriculture and Land Stewardship, and reviewed by National 4-H, FFA, National Pork Board, and Iowa State University Extension and Outreach. Each course is divided into six short lessons. The courses are supplemented with additional resources, including hands-on activity guides. [Bring Home the Blue, Not the Flu!](#)

The courses and teaching tools are also available in Spanish. [¡Gana un premio, no traigas la gripe!](#)

Foreign Animal Disease Preparedness and Response Plan (FAD PReP)

CFSPH has worked with USDA APHIS to develop materials for the Foreign Animal Disease Preparedness and Response Plan (FAD PReP). These materials help to raise awareness, develop capabilities, and enhance the coordinated response to an animal disease outbreak. The materials present a comprehensive U.S. preparedness and response strategy for FAD threats, both zoonotic and non-zoonotic. The FAD PReP/National Animal Health Emergency Management System (NAHEMS) Guidelines provide the foundation for a coordinated national, regional, state, and local response in an emergency. Topics include tasks and issues associated with a response. Each topic has technical guidelines, tactical topics, and annotated PowerPoint presentations for self-education or training. Industry overview manuals provide a broad overview of U.S. production methods and the procedures that may be used in the event of a highly contagious FAD outbreak.

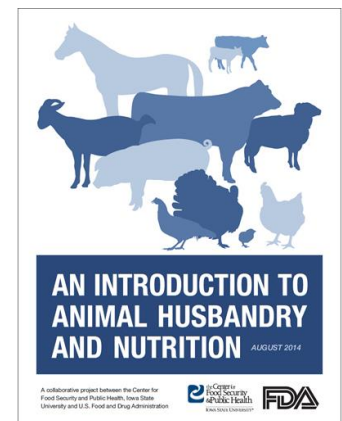


FAD PReP/NAHEMS Topics include:

- Biosecurity
- Cleaning and Disinfection
- Disposal
- Surveillance, Epidemiology, and Tracing
- Health and Safety
- Mass Depopulation and Euthanasia
- Personal Protective Equipment
- Vaccination for Contagious Diseases
- Wildlife Management and Vector Control for a Foreign Animal Disease Response in Domestic Livestock
- Quarantine and Movement Control
- Species Specific Industry Manuals

Introduction to Animal Husbandry and Nutrition

This educational document is a collaborative project between the U.S. Food and Drug Administration (FDA) and the Center for Food Security and Public Health (CFSPH), Iowa State University to provide a brief introduction of basic animal husbandry and nutrition. This material is intended for readers with little background in livestock production. The information focuses on customary management and husbandry practices in commercial production facilities for swine, cattle and poultry. In addition, information is included on horses, sheep and goats.



Just-in-Time (JIT) Training for Animal Health Emergencies

With funding from the Multi-State Partnership for Security in Agriculture, CFSPH developed Just-In-Time (JIT) training to help prepare responders for various aspects and tasks involved during an animal health emergency response. There are 45 training modules available (e.g., Incident Command System (ICS), Responder Health and Safety, Quarantine and Movement Control, Euthanasia, Carcass Disposal). Materials include annotated and narrated PowerPoint presentations (15-20 minutes in length), audio podcast versions.



Secure Food Supply Plans

CFSPH collaborated with USDA, state governments, industry, and academic partners to develop industry-specific resources for the beef, pork, milk, poultry, sheep and wool supply. These plans provide guidance for livestock producers to voluntarily prepare for a FAD outbreak to limit exposure of their animals through enhanced biosecurity. Each industry has a dedicated website that includes a variety of resources (booklets, handouts, videos, and forms) for producers, veterinarians, packers/processors, and regulatory officials. Topics include disease information, enhanced biosecurity plans, vaccination guidance, and disease monitoring (e.g., Certified Swine Sample Collector Training).



[Secure Beef Supply](#)



[Secure Milk Supply](#)



[Secure Pork Supply](#)



[Secure Sheep and Wool Supply](#)



[Secure Poultry Supply](#)

The Livestock Project

With funding from the USDA, CFSPH has created and grown a place to learn and share ideas related to organic and alternative animal health. The Livestock Project website hosts a variety of downloadable and printable materials about reportable diseases, movement risks, and disease prevention as well as an overview course for veterinarians and veterinary technicians.



Other Training Projects and Resources

Title	Delivery Method	Spanish Available
Day 1 Platform for Veterinary Education For more information, contact day1@iastate.edu	Web-based teaching materials for developing countries	No
Online Training for African Swine Fever For more information email lenardon@iastate.edu	Web-based course	Yes
<u>Respirators and Fit Testing in Iowa</u>	Online, downloadable, and printable materials	No

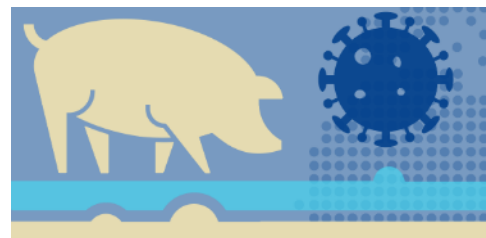
Day 1 Platform for Veterinary Education

The Day 1 Platform for Veterinary Education houses educational resources and teaching tools for use by veterinary faculty around the world. Educational resources are aligned with the Day 1 competencies of the World Organization for Animal Health (WOAH), deemed essential for new veterinary graduates. Educational content incorporates case-based learning in the classroom and is specifically relevant for veterinarians working with smallholder farmers. Content for 3 courses—Herd Health Management and Nutrition, Infectious Disease Epidemiology, and Transmissible Diseases—and materials addressing four species—cattle, small ruminants, swine, and poultry—have been developed. The materials have been piloted in Ethiopia, Cambodia, Thailand and the Philippines, and subsequently reach other countries in the region, including Indonesia, Malaysia, Vietnam, and Laos. Access to this material during the pilot stages is currently limited to selected veterinary educational establishments in low and middle income countries. For more information, contact day1@iastate.edu.



Online Training for African Swine Fever

In 2019, the USDA International Services provided funding to the Inter-American Institute for Cooperation on Agriculture (IICA) to contract with the CFSPH to develop and deliver an online training course titled “African Swine Fever and Transboundary Animal Diseases” in Spanish and English. The training is intended to increase the skills of veterinarians and other animal health professionals to identify, prevent, respond to and control African swine fever, a transboundary animal disease of devastating economic impact for swine industries worldwide. This course has been offered to countries in the Caribbean, Central and South America. For more information email lenardon@iastate.edu



Respirators and Fit Testing in Iowa

With funding from the CDC’s Project Firstline, CFSPH collaborated with the Iowa Department of Health and Human Services to develop a suite of resources for health care administrators and workers. The Respirators and Fit Testing in Iowa website offers educational materials to help health care facilities develop, maintain, and evaluate their own Respiratory Protection Program, including how to train and offer qualitative fit testing for their employees.



Animal Disease Information Resources

Technical fact sheets, one-page FastFacts, educational PowerPoint presentations, and annotated images for important transboundary, emerging, and zoonotic animal diseases are available; many address diseases and toxins found on the USDA National List of Reportable Animal Diseases and the HHS/USDA Select Agent Listing. Resources are available at [CFSPH Animal Diseases](#).

Acariasis	Epizootic Hematopoietic Necrosis	Plague
African Horse Sickness	Epizootic Hemorrhagic Disease	Psittacosis
African Swine Fever	Epizootic Lymphangitis	Q Fever
Aino Disease	Equine Encephalomyelitis (Eastern, Western, Venezuelan)	Rabbit Hemorrhagic Disease
Akabane	Equine Infectious Anemia	Rabies
<i>Amblyomma hebraeum</i>	Equine Piroplasmosis	Rat Bite Fever
<i>Amblyomma variegatum</i>	Equine Viral Arteritis	<i>Rhipicephalus (Boophilus) annulatus</i>
Anthrax	<i>Escherichia coli</i> O157:H7	<i>Rhipicephalus appendiculatus</i>
Aujeszky's Disease	Feline Spongiform Encephalopathy	<i>Rhipicephalus (Boophilus) microplus</i>
Avian Influenza	Foot and Mouth Disease	Ricin
Avian Mycoplasmosis	Fowl Typhoid and Pullorum Disease	Rift Valley Fever
Bartonellosis	Getah Virus	Rinderpest
Baylisascariasis	Giardiasis	Rocky Mountain Spotted Fever
Blue Eye Disease	Glanders	<i>Salmonella Abortusovis</i>
Bluetongue	Hantavirus	Salmonellosis, Nontyphoidal
Botulism	Heartwater	Salmonellosis, Reptile-associated
Bovine Babesiosis	Hemorrhagic Septicemia	Sarcocystosis
Bovine Ephemeral Fever	Hendra	Scabies
Bovine Spongiform Encephalopathy	<i>Hippobosca longipennis</i>	Scrapie
Bovine Tuberculosis	Hookworms	Screwworm Myiasis
<i>Brucella abortus</i>	Infectious Hematopoietic Necrosis	Sheep and Goat Pox
<i>Brucella canis</i>	Infectious Salmon Anemia	Sheep Scab (<i>Psoroptes ovis</i>)
<i>Brucella melitensis</i>	Influenza	Sporotrichosis
<i>Brucella ovis</i>	Ixodes ricinus	Spring Viremia of Carp
<i>Brucella suis</i>	Japanese Encephalitis	Staphylococcal Enterotoxin B
Brucellosis, all species	Larva Migrans	Streptococcosis
Brucellosis (Marine Mammals)	Leishmaniasis	Surra
Campylobacteriosis	Leptospirosis	Swine Influenza
Canine Influenza	Listeriosis	Swine Vesicular Disease
Caprine Arthritis and Encephalitis	Louping Ill	Taenia
Cat Scratch Disease	Lumpy Skin Disease	Theileriosis
Chlamydiosis, Avian	Lyme Disease	Ticks, Exotic
Chlamydiosis, Mammalian	Lymphocytic Choriomeningitis	Toxocariasis
Chronic Wasting Disease	Maedi-Visna	Toxoplasmosis
Classical Swine Fever	Malignant Catarrhal Fever	Transmissible Mink Encephalopathy
Coccidioidomycosis	Marburg Virus Disease	Transmissible Spongiform Encephalopathies
Contagious Agalactia	Melioidosis	Trichuriasis
Contagious Bovine Pleuropneumonia	Menangle	Trypanosomiasis, African
Contagious Caprine Pleuropneumonia	Methicillin Resistant <i>Staphylococcus aureus</i>	Trypanosomiasis, American (Chagas)
Contagious Ecthyma	Monkeypox	Tularemia
Contagious Equine Metritis	Mycobacteriosis	Typhus Fever
Crimean-Congo Hemorrhagic Fever	Mycoplasma gallisepticum	Venezuelan Equine Encephalomyelitis
Cryptococcosis	Nairobi Sheep Disease	Vesicular Stomatitis
Cryptosporidiosis	Newcastle Disease	Viral Hemorrhagic Fever (Arenavirus)
Cysticercosis	Nipah	Viral Hemorrhagic Fever (Filovirus)
Dermatophytosis	<i>Oncorhynchus masou</i> Virus Disease	Viral Hemorrhagic Septicemia
Dourine	Ovine Pulmonary Adenocarcinoma	Wesselsbron Disease
Ebola Virus Disease	Parafilaria	West Nile Virus
Echinococcosis	Paratuberculosis	Western Equine Encephalomyelitis
Egg Drop Syndrome	Peste des Petits Ruminants	
Ehrlichiosis		
Enterovirus Encephalomyelitis		