



CE Agricultural Animal  
Sheep and Goat Physical Exam and Ultrasound: Essentials for the Field Practitioner  
February 9, 2019

Adams County Fairgrounds  
Brighton, CO

Join CVMA for a day of instruction and hands-on learning on sheep and goats in general practice. Learn techniques and tips for field restraint, examination, diagnosis, and treatment of these small ruminants. Seasoned private practitioners and university clinicians will combine their knowledge to give attendees a well-rounded and complete lecture. Participants will practice the exam and ultrasound techniques the same day on live animals in small groups. Given the intimate hands on nature of this wetlab, learning can be tailored to the individual.

Hands-on learning topics include:

- Exam and minimum data base
- FAMACHA and fecals
- Common diseases (infectious and zoonotic)
- Nutrition (requirements and toxicities)
- Reproduction cycles and pregnancy diagnosis via ultrasound

Attendance is limited to 25 participants to allow for more hands-on time and for individualized instruction. CE is approved for 8 hours of education.

### AGENDA

8:00-10:15 AM	Physical exam and diseases
10:15-10:30 AM	Break
10:30-12:30 PM	Nutrition and reproduction
12:30-1:30 PM	Lunch
1:30-5:00 PM	Hands-on wetlab including small group practice with physical exam techniques and ultrasound exam
5:00 - 5:30 PM	Discussion and questions

**Weather/clothing disclaimer:** This event will be hosted rain, snow, or shine. Participants are recommended to bring their own warm weather gear. The building is covered, but not heated and will be opened frequently to move animals.

### PROGRAM DETAILS

8:00-10:15 AM

Lecture

*David C. Van Metre, DVM, DACVIM, Professor in Clinical Sciences, Colorado State University*  
*Tim Thompson, DVM, Town and Country Veterinary Clinic PC, Platteville, CO*

Lecture and discussion covering the following topics:

- Restraint techniques
- TPR (normal)
  - BCS, FAMACHA, dental exam, and trimming
  - Goat v. sheep
  - Sample size and selection
- Fecals (small animal v. equine v. ruminants)
  - Float medium, centrifuge, and McMaster slides
  - Common parasites and diseases
  - Parasitism levels
- Data base (fecal, bloodwork, and mineral status)
- Common diseases
  - Infectious, contagious, GI, skin, and urinary diseases
  - Zoonotic and reproductive diseases
- Basic nutrition
  - Review anatomy
  - Sheep v. goat requirements and toxicities
- Reproduction
  - Seasonality of production/boutique v. fair/show breeds

**10:30–12:30 PM**

**Lecture**

*Erika Wierman, DVM, E.I. Medical Imaging Staff Veterinarian*

Lecture and hands-on training of common techniques to visualize the small ruminant abdomen and reproductive organs.

Participants will learn how to:

- Practice restraint
- Diagnose pregnancy
- Perform examination
- Identify pertinent structures

**1:30–5:00 PM**

**Hands-on wet lab**

*David C. Van Metre, DVM, DACVIM, Professor in Clinical Sciences, Colorado State University*

*Tim Thompson, DVM, Town and Country Veterinary Clinic PC, Platteville, CO*

*Signe Balch, DVM, Cherry Valley Veterinary Services LLS, Larkspur, CO*

*Erika Wierman, DVM, E.I. Medical Imaging Staff Veterinarian*

Hands-on demonstration and practice of techniques on client animal. Participants will rotate among specialists and field practitioners to gain practical experience and guidance tailored to the individual's learning goals.

Participants will learn how to:

- Diagnose pregnancy via trans-abdominal ultrasound
- Perform a physical exam
- Collect samples
- Trim hooves
- Scan the abdominal and thoracic cavity for abnormalities