

## Food Animal Production Medicine Clinical Rotations 2009 - 2010



**School of Veterinary Medicine  
University of Wisconsin-Madison  
2015 Linden Drive  
Madison, WI 53706**

<http://www.vetmed.wisc.edu/dms/fapm/index.html>

### Basic Clinical Skills for Production Medicine Drs. Nordlund and Cook, Co-Coordinators MS 623-701

#### Learn to:

- Assess production, reproduction, udder health, heifer rearing, and cow comfort for different dairy management systems including grazing, tiestall and freestall herds through herd visits and on-farm exercises
- Interpret DHI and DC305 records and use them to identify and monitor herd problems
- Critically assess stall design and ventilation systems
- Estimate costs of herd problems and develop partial-budgets



This two-week rotation is a prerequisite to the series of production medicine rotations unless special exemptions are made with instructors. Farm visits will be made to a variety of dairy herds ranging from small stanchion barns to very large free stall confinement dairies. Most of the topics will be taught using information from the farm visits.

#### Dates:

1. Weeks 3 & 4 (6/1/09 to 6/12/09)
2. Weeks 11 & 12 (7/27/09 to 08/07/09)
3. Weeks 21 & 22 (10/05/09 to 10/16/09)

*\*This course is a prerequisite to the other courses unless special arrangements are made with course coordinators*

### Mastitis Problem Investigations Drs. Cook and Nordlund, Co-Coordinators MS 623-703

#### Learn to:

- Assess mastitis and milk quality on 2 herd investigations
- Identify populations at risk for udder infection and evaluate herd specific risk factors
- Utilize DHIA and DC305 records to identify herd patterns of disease using SCC data
- Collect milk samples, culture and learn to interpret milk microbiology reports
- Analyze milking machine systems using the NMC test protocol and evaluate milking procedures
- Develop mastitis treatment protocols



This program utilizes real herd problem investigations and a combination of wet-labs and class room exercises to teach the necessary skills required for udder health consulting. Teaching will focus on small group discussion as we develop herd specific action plans for each farm problem.

#### Dates:

1. Weeks 13 & 14 (8/10/09 to 8/21/09)
2. Weeks 29 & 30 (11/30/09 to 12/11/09)

Prerequisite: 623-701 (Basic Clinical Skills for Production Medicine) or permission of course coordinators

### Clinical Investigations of Fresh Cow and Calf Problems Drs. Oetzel and McGuirk, Co-Coordinators MS 623-705

#### Learn to:

- Investigate herd problems related to the health of the peri-parturient cow and calf morbidity on 2 herd visits
- Visit and evaluate fresh cow screening programs on large freestall herds
- Collect samples and interpret herd-based diagnostic tests for infectious and metabolic diseases
- Assess environmental risk factors for metabolic and infectious disease including hygiene, housing, and feeding practices
- Develop treatment and vaccination protocols



Problem herds referred to the School of Veterinary Medicine will be investigated. Many herd problems are presented as fresh cow problems that could be either metabolic, infectious, or both. Calf herd problems are usually the result of a combination of infectious agents and environmental stresses. This program teaches herd level approaches to disease management.

#### Dates:

1. Weeks 25 & 26 (11/02/09 to 11/13/09)
2. Weeks 35 & 36 (1/11/10 to 1/22/10)
3. Weeks 41 & 42 (2/22/10 to 3/5/10)

Prerequisite: 623-701 (Basic Clinical Skills for Production Medicine) or permission of course coordinators

**Advanced Techniques in Dairy Records and Nutrition**  
Drs. Oetzel and Cook, Co-Coordinators  
**MS 623-707**

**Learn to:**

- Set up a dairy herd health recording system using DairyComp305
- Evaluate how different practitioners and herds use herd records
- Evaluate herd production, culling, SCC, reproduction and health data
- Perform an advanced nutrition troubleshooting herd investigation
- Interpret feedstuff analysis reports
- Analyze diets using different nutritional software packages and reformulate dairy diets



This advanced level course is taught in a series of labs at the SVM, at 2-3 private clinics, where students learn how individual veterinarians utilize herd records, and on a farm investigation with a nutrition/feeding problem. The program is focused on providing students with the skills they need for entry into dairy practice.

**Date:**

1. Weeks 45 & 46 (3/22/10 to 4/2/10)

Prerequisites: 623-701 (*Basic Clinical Skills for Production Medicine*) and 623-705 (*Clinical Investigations of Fresh Cow and Calf Problems*); or permission of course coordinators

**Advanced Bovine Lameness and Fertility**  
Drs. Cook and Momont, Co-Coordinators  
**MS 623-675**

**Learn to:**

- Investigate risk factors for lameness and poor reproductive performance on a problem herd
- Assess herd reproductive performance using DC305 files
- Understand how to set up, monitor and troubleshoot estrus synchronization programs
- Practice advanced level individual cow palpation skills, including ultrasound
- Hoof-trim cows using the Dutch trimming technique and perform foot surgery



This program is operated with the help of Milo Wiltbank, Paul Fricke, and Karl Burgi, and focuses on advanced level skills required for troubleshooting herd reproductive and lameness problems.

**Dates:**

1. Weeks 49 & 50 (4/19/10 to 4/30/10)

Prerequisite: 623-701 (*Basic Clinical Skills for Production Medicine*) or permission of course coordinator

**Clinical Swine Medicine**  
Dr. Bahnson – Coordinator  
**MS 623-676**

**Learn to:**

- Analyze pork production systems
- Identify health and production problems
- Provide clinical examination of swine herds
- Develop clinical reasoning
- Practice common clinical techniques
- Describe the economic consequences of recommendations



Students will gain an understanding of the veterinarians' role in herd health and swine production. Students are encouraged to develop clinical skills through swine farm visits, laboratories, and lecture/discussions with faculty, swine veterinarians, and swine producers. Students will integrate concepts of swine production and swine medicine.

**Dates:**

1. Weeks 19 & 20 (9/21/09 to 10/2/09)

Prerequisite: 623-701 (*Basic Clinical Skills for Production Medicine*) or permission of course coordinator

**Food Animal Production Medicine website**



<http://www.vetmed.wisc.edu/dms/fapm/index.html>

- Clinical Info & Forms
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Click on the buttons on the left side of the webpage to visit various pages of the web site.

For example, click the Clinical Info & Forms button to go to the index page with links to information, data collection forms, and data summary tools organized by category.

Click the Clinical Rotations button to go to the section regarding the Food Animal Production Medicine Rotations.