South Central College

SWPR 1200 Swine Breeding Stock Management

Syllabus

Instructor and Class Information

Instructor Name  Pete Neigebauer
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Office Location  e-134
Instructor Office 7:15-7:45 M-F or by appointment

Start Date  8/26/2013

Pre/Requisites
Prerequisite  None

Course Competencies

1  Introduction to breeding stock

Learning Objectives
- Describe course technology needs
- Describe student help resources available for hybrid and online courses
- Review industry production benchmarks, handling and transportation laws and regulations

2  Advocate proper animal handling and welfare.

Learning Objectives
- Describe basic animal husbandry and handling
- Analyze farm safety considerations
- Evaluate building hygiene principles
- Examine animal behavior considerations
- Coach employees on farm policy and procedures which address laws and regulations

3  Explain swine health and biosecurity considerations.

Linked Institutional Core Competencies
Critical and creative thinking: Students will develop the disposition and skills to strategize, gather, organize, create, refine, analyze, and evaluate the credibility of relevant information and ideas

Learning Objectives
• Apply acclimation principles of new breeding stock
• Adapt Biosecurity and other health protocols with valid veterinarian relationship
• Adapt humane euthanasia and proper dead animal disposal protocols
• Review farm herd health plan and current health status with veterinarian

4 Critique gilt pool development procedures.

Learning Objectives
• Examine gilt selection and scheduling principles
• Develop a plan for stock replacement
• Describe replacement stock health considerations

5 Perform pig reproduction procedures.

Linked Institutional Core Competencies
Critical and creative thinking: Students will develop the disposition and skills to strategize, gather, organize, create, refine, analyze, and evaluate the credibility of relevant information and ideas.

Learning Objectives
• Describe estrous cycle and mating protocols
• Evaluate estrous detection protocols
• Manage estrous synchronization of gilts and sow inventory
• Examine semen handling, breeding supplies and semen storage considerations
• Explain breeding targets, production schedule, returns and culling protocols
• Examine breeding records for problems and corrective measures

6 Adapt gestation management techniques.

Linked Institutional Core Competencies
Critical and creative thinking: Students will develop the disposition and skills to strategize, gather, organize, create, refine, analyze, and evaluate the credibility of relevant information and ideas.

Learning Objectives
• Examine heat detection procedures
• Describe prognostication protocols
• Establish movement protocols of gestating swine and impact on pregnancy in sows
• Explain culling strategies and impact on herd parity and farm performance
• Explain employee training to verify daily routine and schedules
• Describe group housing management techniques

7 Apply parturition management techniques.

Learning Objectives
• Prepare the sow for farrowing
• Describe animal behavior in parturition
• Examine farrowing process
• Describe room management considerations
• Describe induction process
• Records and recording information

8 Apply piglet management techniques.

Learning Objectives
9 Describe lactation phase management.

Learning Objectives
- Describe body considerations
- Describe animal behavior
- Describe feed intake considerations

10 Apply nutrition management principles.

Learning Objectives
- Describe body condition scoring
- Describe nutritional requirements
- Manage feed and water quality
- Perform nutritional management considerations

11 Analyze facility management considerations.

Linked Institutional Core Competencies
Critical and creative thinking: Students will develop the disposition and skills to strategize, gather, organize, create, refine, analyze, and evaluate the credibility of relevant information and ideas.

Learning Objectives
- Compare sow farm systems with animal welfare and performance
- Describe ventilation, heating and cooling considerations
- Describe facility hygiene and schedule all site assessments
- Coach biosecurity protocols for herd health with farm employees
- Verify system maintenance schedule and employee responsible for task completion
- Coaching employees with schedule coordination in breeding, gestation, farrowing and nursery