



South Central College

SWPR 1200 Swine Breeding Stock Management

Course Outcome Summary

Course Information

Description	This course will provide a comprehensive study of the swine breeding herd. It will focus on the technical aspects of the breeding, gestation, and farrowing departments in a swine operation. Topics include the conditioning, care and management of gilts, sows and boars, breeding schedules, breeding methods, stock replacement, herd integration, replacement strategies, gestation management, Lactation management, reproductive health considerations, and care of piglets prior to weaning. (Prerequisite: None)
Total Credits	3
Total Hours	48

Types of Instruction

Instruction Type	Credits/Hours
Lecture	3/48

Pre/Corequisites

None

Institutional Core Competencies

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Engage in 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.

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.

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.

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.

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

Describe piglet processing considerations.
Describe fostering procedures.
Describe farrowing room schedule.
Describe health considerations.

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.

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.

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: www.southcentral.edu/disability

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.