



SWINE PRODUCTION

AGR 328

Lec. MWF 8:00-8:50

Lab. Wed. 1:25-3:20

Carter Bldg. Room 10

4 Credits



INSTRUCTOR: Dr. Bruce R. Pratt
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TEXT: Swine Science, Ensminger & Parker 6th ed.

COURSE OBJECTIVES:

1. To gain an understanding of the scope of the swine industry in the U.S. and world.
2. To become familiar with the different production systems in the swine industry.
3. To comprehend the basic principles of breeding, reproduction, nutrition and health management of swine.
4. To become proficient with the modern techniques used in the management of swine.
5. To know how to produce and market the modern type of hog that the American consumer wants today.

LABORATORY: The laboratory is intended for the student to gain hands on experience with different techniques working with swine. Many of the laboratories will be held at Meadowbrook. It is your responsibility to dress accordingly. Laboratory periods can not be made up. Any student missing more than one laboratory will have their final grade lowered by one letter grade.

ATTENDANCE: Students in Agriculture are required to attend all scheduled meetings of the classes for which they are enrolled. If a student has a legitimate reason to be absent (personal illness, critical illness or death in immediate family or participation in an approved University activity), they are expected to discuss it with their instructor prior to his anticipated absence and make arrangements for any make-up work that must be done. Completion of make-up work is the responsibility of the student. The instructor will judge the validity of the reason for an absence.

In case of an emergency of such nature that the above requirements cannot be met, the student should inform the instructor at the first opportunity after the student's return to the campus and he should present adequate and documented reasons. Absences in excess of 10% will result in the lowering of the final grade one letter grade. Absences in excess of 20% of a class will automatically result in a failing grade unless this be waived by the instructor and department chairman.

Students who have unexcused absences forfeit the right to do make-up work especially quizzes, exams and laboratories given that day.

Enforcement of this policy is the responsibility of the instructor. Unexcused absences may be used as a factor in determining a grade for the course.

STUDENTS WITH DISABILITIES:

If there is any student in this class who is in need of academic accommodations and who is registered with the Office of Services for Students with Disabilities, please make an individual appointment with the course instructor to discuss accommodations. Upon individual request, this syllabus can be made available in alternative forms. If any student who is not registered with the Office of Services for Students with Disabilities has need of academic accommodations, please contact the Office directly either in person in the Student Services Building in room 361 or by telephone at 622-1500.

EXAMS: Exam and quiz dates are set and will not change. Each exam will cover the material from the last exam up to and including the lecture before the exam unless stated otherwise. Exams and quizzes will cover material from laboratory. The final exam will be divided into two sections; 1. new material (100 points) and 2. comprehensive (100 points).

<u>Date</u>	<u>Exam</u>	<u>Points</u>
Jan. 28	Quiz 1	25
Feb. 18	Exam 1	100
March 30	Exam 2	100
	Abstracts	70
	Laboratory	70 (50 pts. report) (20 pts. Participation)
	Assignments	15 (Internet related swine sites)
May 6	Final	<u>200</u> (May 5; 8 to 10 AM)
	<u>Total Points</u>	600

GRADING: Minimum points to get a specific letter grade

<u>GRADE</u>	<u>POINTS</u>	<u>PERCENTAGE</u>
A	529	92 %
B	483	84
C	414	72
D	345	60

STUDENT PROGRESS: Students will receive a summary of their grades prior to the last day to drop the course (March 4, 2005).

Abstracts: It is expected that students keep up with current trends in the swine industry. During the semester you are to read at least six articles pertaining to the swine industry and abstract each article in a double spaced typed ½ to 1 page summary. Include the title, source and author of the article. Summarize with a one or two sentence relating the importance of the article to the swine industry. One article must be from a scientific journal (such as the J. Animal Science). The abstracts will be reported on **Jan. 21, Feb. 4, 18, Mar. 4, Mar. 25, April 8 and 22.**

Laboratory Report: A report on the performance of the pigs that were followed during the semester is due April 25 at 8 AM. Follow the style of the Journal of Animal Science. Sections to be included are: Introduction, Materials and Methods and Results and Discussion. Results should be summarized to include graphs of the ADG and Feed Efficiencies by litters and/or pens, sex and for foster and naturally raised piglets. The

use of a spread sheet program (i.e. Excel) is required. The report is worth 50 points. The report and all graphs must be computer generated. **The report must be printed and submitted in Word Perfect for PC (not Mac) or MS Word (not Works) in electronic form (e-mailed file is preferred to disks).**

Internet Assignment (20 Pts.): Find a minimum of ten internet sites related to the swine industry. For each site give the internet address and a one to two sentence summary of what is on the site. The assignment must be typed and is due January 26, 2005.

Last Day to Drop the Course: March 4, 2005

Professional Skills Conference: March 28, 2003 from 8 AM till about 1 PM. Required for all students of Junior or Senior standing taking 300 level classes in the college of Business & Technology. \$5.00 registration fee that includes lunch.

LECTURE SYLLABUS

DATE	TOPIC
Jan.10	Course Introduction
Jan. 12	History of the Swine Industry
Jan. 14	History of the Swine Industry
Jan. 17	Holiday - Martin Luther King Day
Jan. 19	Pork Production Systems
Jan. 21	No Lecture Research Supplies for Swine AI
Jan. 24	Pork Production Systems
Jan. 26	Pork Production Systems - Internet Assignment Due
<u>Jan. 28</u>	<u>Quiz 1 (30 Points)</u>
Jan. 31 -Feb. -16	Breeding & Selection
<u>FEB. 18</u>	<u>Exam 1 (100 Pts.)</u>
Feb. 23 - Mar. 4	Reproduction (Making Bacon)
Mar. 14 - 25	Fundamentals of Swine Nutrition
<u>March 30</u>	<u>Exam 2 (100 Pts.)</u>
<u>APR. 1</u>	Professional Skills Conference - Required
April 4 -6	Marketing Swine & Processing
April 11 - 29	Health Management of Swine - Lab Report Due 4/26/01
MAY 6	<u>FINAL EXAM (200 Points)</u> (8 - 10 AM) 100 Points - New Material; 100 Points - Comprehensive

SWINE PRODUCTION

LABORATORY SCHEDULE

DATE	LOCATION	TOPIC
Jan.12	Combs Bldg. 2 nd floor Maroon Room	Introduction to Excel Spreadsheets for recording Pig Weights
Jan. 19	Meadowbrook	Weigh Market Hogs - Check Back Fat Castrate (Gray Group)
Jan. 26	Meadowbrook	Wean Pigs & Sows (Gray Group)
Feb. 2	Meadowbrook	Work up Baby pigs. Weigh New born Pigs to follow throughout semester (Yellow Group) - Breed Sows (Gray Group)
Feb. 9	Meadowbrook	Weigh & Castrate Pigs (Yellow Group) - Placement of Creep Feeders
Feb. 16	Meadowbrook	Weigh Pigs - Selection of Replacement Gilts
Feb. 23	Meadowbrook	Wean Pigs - Weigh Pigs (Yellow Group)
March 2	Meadowbrook	Weigh Pigs in Nursery - Breed Sows (Yellow Group) Work up Baby Pigs (Blue Group)
SPRING BREAK		
March 16	Meadowbrook	Weigh Pigs (Yellow Group) -Castrate (Blue Group)
March 23	Meadowbrook	Weigh Pigs (Yellow Group) Wean Pigs - (Blue Group)
March 30	Meadowbrook	Weigh Pigs - Move pigs from Nursery to finish floor -Ultrasound Pregnancy Checks -Work Up Baby
April 6	Meadowbrook	Castrate (Red Group)
April 13	Carter Bldg.	Calculation of Rations
April 20	Carter Bldg.	Calculation of Rations
April 27	Carter Lab.	Production Records -

I am fond of Pigs, Dogs look up to us, Cats look down, Pigs treat us as equals.
 Sir Winston Churchill