

**ANSC 418  
Swine Production**

**Lecture:** MWF  
8:00-8:50  
**Lab:** Monday 12:20 - 3:20  
**Instructor:** Dr. Lesa Griffiths  
831-2524  
**E-mail:** Lesa@udel.edu  
**Office Hours:** By appointment  
048 TNS Hall



**Text and Lab manual:** There is no required text however there is a required lab manual which is in Sakai.

**Learning Goals:**

1. Students will demonstrate, integrate and apply knowledge of the major core concepts of Animal and Food Sciences as they apply to swine production.
2. Students will use critical thinking and reasoning, skeptical inquiry and scientific approach to solve real problems as they relate to swine production.
3. Students will demonstrate effective writing skills appropriate to communicate laboratory results.
4. Students will demonstrate an understanding of different perspectives on ethics, values, and the roles and use of animals in society and be able to discuss contemporary ethical and moral issues associated with swine production.
5. Students will be able to critically evaluate their contributions to their own learning and the learning of their peers.
6. Students will develop skills important for of team-work and collaborative learning.

**Course Policy:**

Participation is essential to the success of this course and therefore, it is included in your grade. You will be expected to contribute to both the formal lecture and laboratory. Students will be assigned to groups for lab and each student is expected to contribute an equal share of the work. Lab activities will be recorded in a lab journal and there should be no questions as to academic honesty.

**Disruptive Behavior:**

Disruptive behavior, such as talking during lectures, use of electronic devices to view text messages and email, consistent late arrival or early departure, eating etc., will be

the basis for asking a student to leave the class.

**Reference Material:**

Pork Industry Handbook  
Swine Feeding and Nutrition - Cunha  
Swine Production and Nutrition - Pond and Maner  
Swine Production - Krider, Conrad and Carrol  
Diseases of Swine  
Journal of Animal Science  
Feedstuffs

**Grading:**

There will be a number of different opportunities to accumulate points during the semester.

Exams (2)	200
Lab Journal (group)	160
Lab Exam	100
Barn Notebook	25
Attendance	<u>15</u>
Total	500
Optional Assgmt	(10)

Final grade is based on the total number of points. A +/- grading system will be employed. The translation of numerical scores to letter grades for the semester will approximate:

93% (465+ points) = A  
89-92% (445 points) = A-  
85-88% (425 points) =B+  
81-84% (405 points) = B  
77-80% (385 points) = B-  
73-76% (365 points) = C+  
69-72% (345 points) = C  
65-68% (325 points) = C-  
61-64% (305 points) = D+  
57-60% (285 points) = D  
53-56% (265 points) = D-  
(less than 265 points) = F

The components of the grade are further described below:

**Lecture Grading:**

**Exams** (100 points each) – non-cumulative exams at midterm and during finals week.

**Attendance** (15 points) - Each day an attendance sheet will be available at the beginning of lecture. Please sign the sheet to get credit for attendance. Once the sheet is turned in, it will not be handed back out - so may not be able to sign if you are more than a few minutes late. Each student will be given 15 points and a point will be subtracted for each absence as indicated by a missing signature on the sign-in page.

**Optional Assignments** - Each student will have the opportunity to do optional assignments. The assignments can be used to replace 5-point exam questions at the end of the semester. The assignments must be completed by their due date in order to get credit at the end of the semester. The maximum number of points you can accumulate with optional assignments is 10. Be sure to save your exams when they are returned if you want to use your optional assignments.

**Optional Assignment #1**                      **Due October 17** (5 points)

Using the sow assigned to your group as a model, write 1000 word story, poem, fact sheet or other piece of "literature" about pigs. It should be typed (single-spaced) and submitted in WORD to [lesa@udel.edu](mailto:lesa@udel.edu) by 5 pm on the due date.

**Optional Assignment #2**                      **Due November 14** (5 points)

Visit two grocery stores and compare the marketing of pork products to beef and chicken. Consider price, packaging, labeling, point-of-purchase materials, selection, location, and availability of nutrition information

Write a 500 word report on your findings. Include your suggestions for increasing pork sales at the retail level. It should be typed (single-spaced) and submitted in WORD to [lesa@udel.edu](mailto:lesa@udel.edu) by 5 pm on the due date.

**Lab Grading:**

More than half of your grade in the course depends upon your participation in lab. There are three components to your lab grade: 1) Group Journal (160 points), 2) Barn Notebook/Participation (25 points), and 3) Lab Exam (100 points)

**Group Journal** (160 points) Each group will be asked to compile a journal describing their experiences and activities in the lab. The journal has both required and optional sections, and will contain both group and individual assignments. More details on the group journal are described in the lab handout.

**Barn Notebook** (25 points) There will be a notebook in the barn for each group. (Actually each group will have section of a big notebook.) The barn notebook is record of daily feed intake, animal behavior and observations. Although each group is primarily

responsible for their own sow/litter, all students are expected to be aware of what is going on in all groups (read the last few entries for each pen every time you come to the barn). You should acknowledge EVERY farm visit with a notation in the barn notebook.

The points for this section will be given based on the number of visits, quality of notations, and time spent in lab in the Barn Notebook. Students that leave lab early and/or do not enthusiastically participate in chores will not receive points for the barn notebook. These are individual (not group) entries.

**Lab Practical Exam** (100 points). The lab exam will be based on the lab activities and problems which arise with the sows/litters during the course of the semester. It is important that each group carefully document the problems/solutions in the Barn Notebook so all students are aware and familiar with what happens in the barn.

## ANFS 418 Swine Production Syllabus

### Topics

Introduction	Environment
Prenatal Development	Genetics and Breeding Systems
Postnatal Development and Growth	Production Systems
Reproduction	Conversion of Muscle to Meat
Health	Carcass Quality
Behavior	
Nutrition	

### Important Dates

#### September

8	Mon	First Lab
17	Wed	Lab Summary (group)
24	Wed	Lab Summary (group)
24	Wed	Initial Thoughts Paper (individual)

#### October

1	Wed	Lab Summary (group)
8	Wed	Lab Newsletter (group)
15	Wed	Group Evaluation (individual)
17	Wed	First Optional Due (individual)
22	Wed	Lab Summary (group)
29	Wed	<b>MIDTERM EXAM</b>

#### November

5	Wed	Lab Summary (group)
14	Fri	Optional #2 (individual)
19	Wed	Lab Newsletter (group)

#### December

1	Mon	<b>LAB EXAM</b>
3	Wed	Group Evaluation (individual) Group Journal (group) Final Reflections Paper (individual)