

ANSI 4643

Swine Science

Fall, 2009

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Prerequisites: ANSI 3433, ANSI 3443, ANSI 3653

Course Structure: 2 class periods/week (TR 12:30-1:20)
1 lab period every other week (R 2:00-5:00)

Course Objectives:

1. Develop an appreciation for the complexity and technological advances in the global, U.S, and Oklahoma swine industries.
2. Discuss proper management practices employed in swine operations and their impact on profitable pork production.
3. Develop skills for evaluating and solving management problems of a swine operation.
4. Complement management decisions with science-based principles.

Text: No formal text is required. Students will be provided handouts, which are current and relevant to topics discussed in class.

A copy of the **Pork Industry Handbook (PIH)** can be purchased for interested students. The text will be ordered during the first week of class.

Additional references that also promote better understanding of particular subjects include:

Magazines:

Pork (www.porkmag.com)
National Hog Farmer (www.nationalhogfarmer.com)
Feedstuffs (www.feedstuffs.com)

Other:

National Pork Board (www.pork.org)
NPPC publications (www.nppc.org)
NSIF Guidelines (www.nsif.com)
STAGES (www.ansc.purdue.edu/stages/)
Univ. Publications (go to *Livestock Library* and then to *Swine*)

Daily Swine Report (<http://agebb.missouri.edu/mkt/bull7c.htm>)
Weekly Swine Report (<http://agebb.missouri.edu/mkt/bull1c.htm>)

USDA (<http://www.ams.usda.gov/mnreports/lstdhps.pdf>)

Evaluation:	4 Quizzes	120 pts (12%)	Grading: A – 93 and above B – 80 – 92.9 C – 70 – 79.9 D – 60 – 69.9 F – below 59.9
	2 Exams	200 pts (20%)	
	1 Final Exam	200 pts (20%)	
	5 Case Studies	400 pts (40%)	
	Lab Project	80 pts (8%)	

Exams: Two exams (October 6, November 24) will be given. Each exam is worth 100 points. The final exam will be December 10, at 10:00 am. The final is worth 200 points.

Quizzes: Five quizzes will be given during the semester, each worth 30 points. You may drop your lowest quiz score. Total quiz points will equal 120 points.

Case Studies: Case studies involving "real-world" problems will be assigned during the semester. The students will be asked to analyze the problem and make management recommendations using the information obtained in class and selected computer software. The case studies will address major decisions related to herd management, nutrition, breeding, reproductive management, selection, health, cash flow, and facilities. Total case study points will equal 400 points.

Lab Project: Lab project will be worth 80 points. More information will be provided during the semester.

Make-Up

Examinations: Examination absences must be **approved in advance**. **Please submit absence requests in writing**. Unapproved absences for exams will be counted as zeros. University sponsored events, severe illness, and serious family issues are the only excuses for missing an exam. In those instances, a makeup exam will be available.

Attendance: No attendance will be taken during lectures. *Attendance will be taken* during laboratory periods. More than *one unexcused* absence from lab will result in a loss of a letter grade. Attendance on field trips is required.

Field Trips: One day-long field trip will be taken during the semester. Attendance is *mandatory*. Field trip costs will range from \$0 to \$45.

Important

Dates:
Last day to add a class – Monday, August 24
Last day to drop a class with no grade – Monday, August 24
Last day to drop a course with an automatic grade of “W” – Friday, November 06

Academic

Integrity: Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, academicintegrity.okstate.edu.

Special

Accommodations: According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to www.okstate.edu/ucs/stdis/.

TENTATIVE LECTURE AND LAB SCHEDULE

Fall, 2009

August	18	Lec	Class Plan, Introduction	
	20	Lec	World, U.S. and OK Swine Industry	
	20	Lab	Pork Production Systems, Scheduling	
	25	Lec	Issues facing the industry	
	26	Lec	Breeding I,	
September	01	Lec	Breeding II - Quiz 1	
	03	Lec	Breeding III	
	03	Lab	Selection/Swine Farm - Case Study 1	
	08	Lec	Nutrition I,	
	10	Lec	Nutrition II	
	14	Lec	Nutrition III	
	17	Lec	Reproduction I	
	17	Lab	Ration Formulation/Swine Farm - Case Study 2	
	22	Lec	Reproduction II - Quiz 2	
	24	Lec	Reproduction II	
October	29	Lec	Herd Health	
	01	Lec	Guest Lecturer (Boar stud/AI)	
	01	Lab	Boar Stud/AI - Swine Farm	
	06	Lec	EXAM 1	
	08	Lec	Intro to Herd Management	
	13	Lec	Gestation Mgmt I	
	15	Lec	Gestation Mgmt II -	
	15	Lab	Parturition	
	20	Lec	Gestation Management III	
	22	Lec	Lactation I - Case Study 3, Quiz 3	
	27	Lec	Lactation II	
	29	Lec	Lactation III	
	29	Lab	Lactation Mgmt	
	November	03	Lec	Intro to Weaning/GF management
		05	Lec	Weaning Mgmt I
10		Lec	Weaning Mgmt II	
12		Lec	Weaning Mgmt III - Quiz 4, Case Study 4	
12		Lab	Nursery/Grow-Finish Mgmt	
17		Lec	Grow-Finish Mgmt I	
19		Lec	Grow-Finish Mgmt II	
24		Lec	EXAM 2	
26		Lec	THANKSGIVING HOLIDAY	
December		02	Lec	Grow-Finish Mgmt III- Case Study 5
	04	Lec	Waste Management, Quiz 5	
	04	Lab	TBA	
	10		FINAL EXAM 10:00 AM	