

**ANSC 416 – Swine Science**  
**Fall 2019**  
**Information on syllabus is “SUBJECT TO CHANGE”**

Instructor: Dr. Mark Hoge    Office: KH 314            Email: MD-Hoge@wiu.edu  
Phone #: Cell – (309) 255-2735

**Class Time:** Monday, Wednesday 11:00 – 11:50 a.m. KH 305  
Thursday 10:00 – 11:50 Lab LC 105 (Pavilion)

**Office Hours:** Monday 9am -11am  
Wednesday 9am – 11am  
Thursday 9am- 10am at LC 105 (Pavilion)  
Arranged by email or cell at (309)-255-2735

**Course Objectives:** Learn about the various aspects of managing swine enterprises, including genetics, nutrition, reproduction, and financial management. Additionally, students will be aware of current issues that face the swine industry and gain understanding of cost of production of modern swine production.

**Attendance:** ATTENDANCE IS A MUST!!!! Attendance will be taken and factored in to your final grade. Students must be prepared to interact, and discuss topics relating to course assignments. Absenteeism will impede your success on assessments and course assignments. The course is centered around classroom assignments, activities, and classroom lecture.

*\*\*\* If a student is going to miss class, the student is required to provide a typed letter stating the reason for missing class and the date to be missed.\*\*\**

**Personal Habits:** Your enrollment and attendance in this course automatically subjects you to course policies that have been established. Additional policies may be developed if needed, and are based on **common sense and University policies as set forth by the University Provost.**

**It is the STUDENT’S RESPONSIBILITY to follow the course policies.** A brief description of those policies are listed below. The University Handbook will be followed in cases where further clarification is needed. See: <http://www.wiu.edu/policies/>

Some personal habits are distracting to others in the classroom and are disallowed. They include, but may not be limited to: holding conversations with others during lecture, text messaging, making or receiving phone calls, using personal electronic devices for gaming, etc. Please respect those around you and limit these practices to personal time.

**\*\*\*IF YOU MISS MATERIAL THAT IS HANDED OUT DURING CLASS IT IS YOUR RESPONSIBILITY TO GET THAT INFORMATION FROM A CLASSMATE.\*\*\***

## University Policies:

### Education Majors

The changes within the state certification requirements, which go into effect immediately for all of those students who graduate in the spring 2012 and after, you are required to receive a grade of a "C-" or better in this course in order to meet these new requirements.

**ADA Compliance:** In accordance with University policy and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. For the instructor to provide the proper accommodation(s) you must obtain documentation of the need for an accommodation through Disability Resource Center (DRC) and provide it to the instructor. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she is not legally permitted to inquire about such particular needs of students. Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency. Contact Disability Resource Center (DRC) at 298-2512 for additional services.

**Academic Dishonesty:** Any violation of the Academic Dishonesty Policy in Student Handbook will result in an automatic failure in the course. Plagiarism and cheating are areas of concern for the course. This course is designated to enhance your writing and presentation skills within your academic area, not the ability to copy thoughts and ideas.

**Excuses:** Any excuse for a missed test or assignment must be cleared before the assignment is due or test is to be taken. In general, the only accepted excuses will be for university events, personal health if a doctor's excuse is available, and verifiable family emergencies.

<b>Grading Scale:</b>	A = 92 – 100%	A- = 90 – 91%
B+ = 87 – 89%	B = 82 – 86%	B- = 80 – 81%
C+ = 77 – 79%	C = 72 – 76%	C- = 70 – 71%
D+ = 67 – 69%	D = 62 – 66%	D- = 60 – 61%
	F = ≤ 59%	

### Grades based on:

4 hour exams	400
Homework, quizzes	220
Functioning Budget	100
Attendance %	100
<u>Final Exam</u>	<u>150</u>
Total	970

**Homework and Quizzes:** Late assignments will have 5 points taken off each day the assignment is late. Quizzes will be 20 points each and will be announced at least one class period prior to the quiz.

<b>Week</b>	<b>Date</b>	<b>Topic</b>
Week 1	M 8/19	Introduction
	W 8/21	Breeds of Swine – Breeding Companies–
	TH 8/22	Lab – Introduction
Week 2	M 8/26	Genetics
	<b>T 8/27</b>	<b><i>Carthage Vet Service Annual Swine Conference</i></b>
	W 8/28	Breeding and Genetics
Week 3	TH 8/29	Lab – Swine Farm Inventory
	M 9/2	NO CLASS – LABOR DAY
	W 9/4	Breeding and Genetics
Week 4	TH 9/5	Lab
	M 9/9	Breeding and Genetics
	W 9/11	Applied Genetics – Swine Behavior
Week 5	TH 9/12	Lab
	M 9/16	Swine Behavior
	<b>W 9/18</b>	<b>EXAM I</b>
Week 6	TH 9/19	Swine Production and Management
	M 9/23	Reproduction
	W 9/25	Reproduction
Week 7	TH 9/26	Selection / Semen collection and processing
	M 9/30	Health
	W 10/2	Swine Health
Week 8	TH 10/3	Lab
	M 10/7	Health and Reproduction Review
	<b>W 10/9</b>	<b>Exam II</b>
Week 9	TH 10/10	Fundamentals of Swine Nutrition
	M 10/14	Nutrition Requirements and Allowances
	W 10/6	Feed Programs
Week 10	TH 10/17	Balancing Rations
	M 10/21	Alternative Feeds, Additives
	W 10/23	High-Energy Feedstuffs and Amino Acids
Week 11	TH 10/24	Forage and Pasture Production
	M 10/28	Nutrition Review
	<b>W 10/30</b>	<b>Exam III</b>
Week 12	TH 10/31	Lab
	M 11/4	Business Management
	W 11/6	Pig Record Keeping Systems
Week 13	TH 11/7	Lab
	M 11/11	Business Aspects of Swine Production
	W 11/13	Business Aspects of Swine Production
Week 14	TH 11/14	Lab
	M 11/18	Environmental Management
	W 11/20	Environmental Management
	TH 11/21	<b>Exam IV</b>
<b>THANKSGIVING BREAK 11/25-11/29</b>		
Week 15	M 12/2	Facilities and Equipment
	W 12/4	Facilities and Equipment
	TH 12/5	Lab
Week 16	<b>December 11 WEDNESDAY 10:00AM</b>	<b>FINAL EXAM</b>

Course Objective Beginning Check Sheet  
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## Current Issues facing swine industry

## Genetics:

- 1) Heritability –
- 2) Selection –
- 3) list 2 swine breeding companies and 5 breeds of swine
- 4) EPD
- 5) Why crossbreed?

## Reproduction:

- 1) length of gestation \_\_\_\_\_
- 2) length of heat cycle \_\_\_\_\_
- 3) common wean age \_\_\_\_\_
- 4) how many days after weaning will a sow come into heat? \_\_\_\_\_
- 5) average value for pigs per sow per year? \_\_\_\_\_

## Nutrition:

- 1) common source of energy? \_\_\_\_\_
- 2) Common source of protein? \_\_\_\_\_
- 3) Define CP
- 4) Define Lysine
- 5) Give the CP and Lysine levels for:
  - a. Nursery pig \_\_\_\_\_
  - b. Grower pig \_\_\_\_\_
  - c. Finishing pig \_\_\_\_\_
  - d. Gestating sow \_\_\_\_\_

## Disease:

- 1) list 3 swine diseases that have impacted the swine industry.

## Composition/Market:

- 1) average market weight
- 2) average backfat at market
- 3) average loin eye area at market
- 4) average days to 250 pounds.
- 5) Current market hog price.
- 6) Current corn/bean price.

What areas would you like to see covered in depth during the semester???