

**ANSC 314
ANIMAL BREEDING
SPRING 2017**

Instructor: Dr. Jamie McClure DVM
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Office Hours: 10 am-11 am MW

Class Times: Lecture MWF 9:00-9:50am KH 305

Recommended Text: *Understanding Animal Breeding, 2nd Edition* Richard M. Bourdon

Requirements: non-programmable calculator (you may NOT use a cell phone or tablet calculator during exams)

Additional course materials: I will utilize Western Online for class notes, study guides and assignments as well as class announcements. You are responsible for any information posted on our class homepage, including schedule changes. Please make it a habit to regularly check Western Online.

Prerequisite: ANSC 112; AGRI 376; BOT 200 or ZOOL 200; MATH 103 or 123 or STAT 171

Course description: Application of genetics to livestock production.

Course objective: Students will learn the principles of animal breeding and genetics and how to apply them to increase livestock production.

Attendance

- Students are expected to attend and participate in all lectures and labs. **Seats will be assigned and attendance will be recorded.** Missing class for an unexcused reason will result in loss of the points for the day (2 points/day).
Please note that arriving excessively late (more than 5 minutes after the start of class), repetitively talking, not paying attention and/or using your cell phone in class will automatically result in an unexcused absence
- If you anticipate an excused absence, please notify me via the OARS system to report your absence www.wiu.edu/oars **prior** to the scheduled lecture or lab—**if I receive the email after the scheduled lecture or lab, it will be counted as unexcused.** Excused absences include university-sponsored activities, personal illness or funerals. A note from a faculty sponsor or doctor may be required. Please note that work, vacations or other non-university sponsored events will be counted as unexcused.
- Any student missing a class for any reason is responsible for obtaining any missed class material in addition to making arrangements to make up missed work.
- Students that miss a quiz or exam due to an UNEXCUSED absence will still be able to take the quiz or exam, however only 85% of the exam or quiz score will count. For

example, if the student gets a 90% on the exam only a score of 76.5% would be counted in final grade calculation.

- Late assignments will have 5 points deducted for every day it is late, starting at the end of class/lab period the assignment was due.

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 the Disability Resource Center (DRC) at 298-2512 for additional services.”

Academic dishonesty

<http://www.wiu.edu/policies/acintegrity.php>

Any violation of the Academic Dishonesty Policy in Student Handbook will result in an automatic failure in the course.

Attention 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 or after, you are required to receive a grade of a “C” or better in this course in order to meet these new requirements. With the new university grading system, receiving a “C-“ or below will require you to retake this course or find a substitute course to meet School of Agriculture graduation requirements.

Class conduct:

Asking of questions and discussing relevant information in and outside the classroom is highly encouraged. However, talking during class, texting, sleeping or studying for other courses during class time **will not** be tolerated and will count as an unexcused absence. Disruptive students will be asked to leave and will be counted as absent.

Cell phone policy:

NO CELL PHONES. If your cell phone is out during class, you will automatically be counted as an unexcused absence. If you have an emergency situation, please let me know before class. Any electronic device (cell phone, tablet, etc.) with a built in calculator will NOT be allowed for use during exams.

Course Grades:

3 exams @ 75pts each	41%
Final exam @ 150 pts	27%
Quizzes and homework @ 100 pts	18%
Class participation & attendance @ 76 pts	14%

Grading Scale

Letter grade	Point Value	Percentage
A	= 4.00 pts.	100% - 95%
A-	= 3.67 pts.	94% - 90%
B+	= 3.33 pts.	89% - 86%
B	= 3.00 pts.	85% - 82%
B-	= 2.67 pts.	81% - 80%
C+	= 2.33 pts.	79% - 76%
C	= 2.00 pts.	75% - 72%
C-	= 1.67 pts.	71% - 70%
D+	= 1.33 pts.	69% - 66%
D	= 1.00 pts.	65% - 62%
D-	= 0.67 pts.	61% - 60%
F	= 0.00 pts.	59% or below

Tentative Course Schedule Subject to Change

Chapter	Subject	Dates
1	What Is The “Best Animal?”	1/18, 1/20
2	How Are Animal Populations Improved?	1/23
3	Mendelian Inheritance	1/25, 1/27
4	Genes In Populations	1/30
5	Simply-Inherited & Polygenic Traits	2/1
6	Selection For Simply-Inherited Traits	2/3
7	The Genetic Model For Quantitative Traits	2/6, 2/8
8	Statistics & Their Application To Quantitative Traits	2/10, 2/15
	Exam #1 Review	2/17
	Exam #1	2/20
9	Heritability & Repeatability	2/22, 2/24, 2/27
10	Factors Affecting The Rate Of Genetic Change	3/1, 3/3
11	Genetic Prediction	3/6, 3/8
12	Large-Scale Genetic Evaluation	3/10
13	Correlated Response To Selection	3/12
14	Multiple-Trait Selection	3/14
15	Selection Or Simply-Inherited Traits	3/20
	Exam #2 Review	3/22
	Exam #2	3/24
16	Mating Strategies Based On Animal Performance: Random And Assortative Mating	3/27, 3/29
17	Mating Strategies Based On Pedigree Relationship: Inbreeding And Outbreeding	4/3, 4/5
18	Hybrid Vigor	4/7
19	Crossbreeding Systems	4/10, 4/12
20	Biotechnology & Animal Breeding	4/14, 4/17, 4/19
	Exam #3 Review	4/21
	Exam #3	4/26
21	Commonsense Animal Breeding	5/1, 5/3
	Cumulative Final Exam	5/10 @ 8am