

## **ANSC 220: LIVESTOCK PRODUCTION**

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### **COURSE SYLLABUS**

#### ***COURSE INFORMATION***

ANSC 220: Livestock Production (38261), 3 credits, 12:30-2:00PM TTH, 12 Weeks, Western Star Career and Technology Center 127

Course Description: General production and management of major meat animal species. Topics include production systems, feeding, facilities, health, economics, and marketing.

#### ***INSTRUCTOR***

Jessalyn Bachler, Western Star Career and Technology Center 129, 701-774-4532  
jessalyn.bachler@willistonstate.edu

Office Hours: MW 10:30AM-12:00PM, TTh 11:00AM-12:30PM, or by appointment

#### ***TEXTBOOK & MATERIALS***

Optional: Modern Livestock and Poultry Production, 9<sup>th</sup> Edition – Flanders & Gillespie - ISBN: 9781133283508

#### ***STUDENT LEARNING OUTCOMES***

##### **INSTITUTIONAL OUTCOMES**

- 1.) Students will use **reasoning** skills to analyze and solve problems.

## **PROGRAM OUTCOMES**

- 1.) Demonstrate effective oral and written communication.
- 2.) Demonstrate problem solving strategies within the agriculture industry.
- 3.) Identify agricultural needs within society.
- 4.) Identify how agriculture affects personal and community health.

## **COURSE OUTCOMES**

- 1.) Differentiate production, breeding, and herd health systems of the major meat animal industries.
- 2.) Evaluate production livestock based on genetics and performance records.
- 3.) Evaluate various reproduction enhancements and common management practices.

## **ASSESSMENT TASKS (FOR COURSE OUTCOMES)**

- 1.) Complete textbook readings, questions, and problems demonstrating mastery of both concepts and process skills.
- 2.) Complete examinations demonstrating mastery of both concepts and process skills.
- 3.) Complete physical labs to demonstrate the understanding of concepts.

## **PROCESS SKILLS**

- Terminologies of production systems
- Flow charts and graphs of steps of production systems, breeding systems and facilities
- Expected Progeny Data (EPD) for genetic expectation interpretations
- Current research on herd health issues
- Treatment and vaccination administration location and options
- Basic interpretations of required nutrition
- Estrus and estrous differentiation
- Estrous cycle understanding
- Newest technologies in the livestock reproduction area

## **CONCEPTS & ISSUES**

- Beef, sheep, swine, and dairy production systems
- Beef, sheep, swine, and dairy genetic and breeding systems
- Beef, sheep, swine, and dairy herd health
- Beef, sheep, swine, and dairy nutrition
- Beef, sheep, swine, and dairy reproduction
- Beef, sheep, swine, and dairy facilities
- Beef, sheep, swine, and dairy marketing

## ***ASSESSMENT PORTFOLIO***

Each degree seeking student is required to maintain an assessment portfolio on Blackboard for his/her time at Williston State College. For this class you should include evidence of completing institutional learning outcomes of what you learned in this class.

## ***GRADING SYSTEM***

<b>Required Assignments</b>	<b>Points</b>	<b>Percentage (%)</b>
Tests (2): Midterm and Final	$150 \times 2 = 300$	24
Quizzes (2)	$75 \times 2 = 150$	12
Assignments (4)	$50 \times 4 = 200$	16
Lab Reports (10)	$50 \times 10 = 500$	40
Final Project	100	8
<b>Total</b>	<b>1250</b>	<b>100</b>

**\*\*\*Bonus points will be awarded throughout the semester; be present and pay attention!**

## ***GRADING BASIS***

<b>Letter</b>	<b>Percent</b>
A	$\Rightarrow 90$
B	$\Rightarrow 80$
C	$\Rightarrow 70$
D	$\Rightarrow 60$
F	$< 60$

## ***ASSIGNMENT DESCRIPTION***

- Only two tests will be given throughout the semester, a midterm and a final; they will be comprehensive.
  - **Failure to complete the final exam will result in an “F” for a final grade in the course.**
- The two quizzes will only cover current material, and will NOT be comprehensive.
  - **Tests/quizzes must be completed by the due date, or a “0%” will be given. Arrangements must be made TWO DAYS prior to when the test/quiz is given in order to make up test/quiz beforehand. You will not be allowed to take the test after the due date – NO EXCEPTIONS.**
  - **Taking tests with other classmates is unacceptable and considered cheating. If students’ test times overlap a “0%” will be given with no option to retake.**
- Four two-page papers and ten one-page lab reports will be assigned throughout the semester. These papers/lab reports will be written double-spaced in Times New Roman font, 12 pt. In the header, will be the class and assignment label, the date, and your name; this is shown below.

ANSC 220 – Paper #1

1-17-25

Your Name

- All assignments/lab reports are to be turned in on Blackboard by the due date.
- **All assignments are due one week after assigned. For each business day assignments are late, 20% will be deducted until the grades reaches 0%.**

- All answers can be found within the course material. Any answers that are “Googled” will not be given credit. If any outside sources are needed, the instructor will advise you where to find reputable information.
- One final bull sale project will be ongoing throughout the semester.
- More detailed guidance and rubrics will be provided for each of the assignments.

### ***TEAMS EXPECTATIONS***

- This course will be offered to students on different campuses via Microsoft Teams. Students that take the course have the following expectations:
  - To sign onto the Teams meetings at the regular class times
  - To always have their camera on
  - To have their microphone muted unless they are speaking
  - To actively participate in class discussion with the other students
  - To ask questions of the instructor as needed
  - To take the lab portion of the course in a hybrid/online format
  - **If students do not follow these requirements, their overall grade in the course will be affected negatively.**

### ***SCOPE AND SEQUENCE OF THE COURSE (SUBJECT TO CHANGE)***

Week	Chapter	Assignment/Lab/Test
1	1 – Domestication and Importance of Livestock	
2	3 – Safety in Livestock Production 4 – Livestock and the Environment	Lab #1 – Ranch/Livestock Safety/BQA
3	NUTRITION 5 – Anatomy, Physiology, and Absorption of Nutrients 6 – Feed Nutrients 7 – Feed Additives and Growth Performance	Lab #2 – Feed Sampling
4	8 – Balancing Rations Review (1, 3-8)	Lab #3 – Balancing Rations <b>Quiz #1</b>
5	CATTLE 13 – Breeds of Beef Cattle 39 – Breeds of Dairy Cattle	Assignment #1 – Beef and Dairy Cattle Breeds
6	FEEDING 15 – Feeding and Management of the Cow-Calf Herd 16 – Feeding and Management of Feeder Cattle	Lab #4 – Virtual Feedlot Tour
7	HEALTH 17 – Diseases and Parasites of Beef Cattle	Lab #5 – Cattle Health
8	MANAGEMENT/MARKETING 18 – Beef Cattle Housing and Equipment 19 – Marketing Beef Cattle	Lab #6 – Cattle Management Day

9	BREEDING 11 – Biotechnology in Livestock Production 12 – Animal Breeding Systems Review (1, 3-8, 13, 39, 15-19, 11-12)	Lab #7 – DocTalk: Reproductive Efficiency  <b>MIDTERM EXAM</b>
10	AI + ET Notes	Lab #8 – AI Practice
11	DAIRY 41 – Feeding Dairy Cattle 42 – Management of the Dairy Herd 43 – Milking Management 44 – Dairy Herd Health	Assignment #2 – Milk Men Documentary
12	SWINE 20 – Breeds of Swine 22 – Feeding and Management of Swine 23 – Diseases and Parasites of Swine	Assignment #3 – Swine Breeds
13	24 – Swine Housing and Equipment 25 – Marketing Swine Review (AI, ET, 41-44, 20, 22-25)	Lab #9 – Swine Facility Tour  <b>Quiz #2</b>
14	SHEEP 26 – Breeds and Selection of Sheep 27 – Feeding, Management, and Housing of Sheep	Lab #10 – Sheep Facility Tour
15	GOATS 28 – Breeds, Selection, feeding, and Management of Goats 29 – Diseases and Parasites of Sheep and Goats 30 – Marketing Sheep, Goats, Wool, and Mohair	Assignment #4 – Sheep and Goat Breeds
16	7P – Sheep Management Techniques 8P – Goat Management Techniques	Final Exam Review
17	Finals Week	<b>FINAL EXAM</b>

## ACCESSIBILITY STATEMENT

Williston State College is committed to providing equal access to students. If you have a disability which may impact your performance, attendance, or grades in this course that requires accommodations, you must first register with the WSC Accessibility Support Office. Please note that classroom accommodations cannot be provided until your instructors receive an Accommodations Form, signed by you and the Accessibility Support Office.

## IMPORTANT DATES

- **Last day to drop: 1-23-2025**
- **Last day to withdraw (with W): 4-11-2025**
- For important dates concerning holidays, last date to withdraw from class, etc., please visit the WSC catalog available on the website: [www.willistonstate.edu](http://www.willistonstate.edu).

## ACADEMIC RESOURCES

Take advantage of academic resources available to you at Williston State College:

- Communication Lab: Supplemental instruction is provided to assist students who are either having difficulty or desiring extra help with specific subjects. The Communication Lab assists with composition, writing, communication, and public speaking. The Communication Lab is located in Stevens Hall 120. Students should make appointments at [wsc.writinglab@willistonstate.edu](mailto:wsc.writinglab@willistonstate.edu).
- Math Lab: Supplemental instruction is provided to assist students who are either having difficulty or desiring extra help with specific subjects. The Math Lab assists with all math needs. The Math Lab is located in Stevens Hall Science Lounge.
- Learning Commons: It's not just the Library anymore. In addition to the normal library functions (book checkout, research assistance, etc.), the Learning Commons serves a number of other functions. In the Learning Commons you can check out study rooms, check out graphing calculators, utilize computers and print school related materials. Technical support for your online courses is also available in the Learning Commons. For technical support please stop in the Learning Commons or call 701.774.4590 or email [wsc.extendedlearning@willistonstate.edu](mailto:wsc.extendedlearning@willistonstate.edu). For library support or questions call 701.774.4226.
- NetTutor: Web based service that provides on demand tutoring across a wide variety of subject areas. With NetTutor you can access live tutors, ask a question, and come back later for a response and/or submit written work for review. This program can be accessed through the NetTutor link in any WSC Blackboard course. If you have questions or need assistance, please contact Extended Learning at [wsc.extendedlearning@willistonstate.edu](mailto:wsc.extendedlearning@willistonstate.edu).

## STUDENT ACADEMIC INTEGRITY

Work submitted for this course must follow Student Academic Integrity as cited in the WSC Student Code of Conduct:

- Acts of cheating and plagiarism are prohibited. Cases of academic dishonesty may be treated as an academic matter or as a disciplinary matter at the discretion of the instructor.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment. It includes using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.
- Plagiarism is presenting someone else's work or ideas as your own, with or without their consent, by incorporating it into your work without full acknowledgement. All published and unpublished material, whether in manuscript, printed or electronic form, is covered under this definition.
- Self-plagiarism is the use of one's own previous work in another context without citing that it was used previously.
- The instructor may reflect the incident of academic dishonesty through the assignment of the student's grade in the course. If the student has a grievance related to this action, that grievance would be directed to the Chair of the department in which the course is housed.

- Alternatively, the instructor may refer the case as a disciplinary matter to the Vice President for Academic Affairs. The Vice President for Academic Affairs may refer the case to the Student Review Committee for action.

Breach of academic integrity may result in failure of the assignment, exam, and/or class.

### **STUDENT RESPONSIBILITIES:**

- You are expected to read the relevant materials and participate in class discussions in a timely manner.
- You are expected to respect your fellow students and the instructor in online and on campus discussions.
- It is your responsibility to ask questions when you are uncertain about assignments or course materials.
- If you have questions concerning grades, you should contact the Instructor immediately. You are responsible for checking Blackboard in a timely fashion to ensure that the grade recorded is your correct grade.
- It is your responsibility to contact the instructor as soon as possible if you are encountering any issues that would hinder your performance in this class.
- You are responsible for earning your grade (with the instructor making every effort to help you learn the material).
- If you are concerned about your grade, you should speak to the Instructor NO LATER than mid-term. No consideration will be given to request to adjust your grade at the end of the semester unless there is an error in calculations.

### **GRIEVANCE POLICY**

Occasionally, students are dissatisfied with some dimension of the course. In such cases, students should first schedule a meeting with the instructor. If the student and instructor cannot reach a satisfactory resolution, the student should schedule a meeting with the Chair of the Department. (See the Student Code of Conduct.)

### **TITLE IX**

Survivors of sexual assault, domestic violence, and sexual harassment: please be aware that as an instructor, I am legally obligated to report all instances of sexual assault, domestic violence, and sexual harassment involving students. If you would like to speak to someone confidentially, please contact the WSC Counselor at (701)774-4212 (they are NOT mandated to report such instances).

### **FINAL EXAMS/ACTIVITIES**

Students are required to take the final examination or engage in the final activity on the date and at the time presented as part of the course syllabus. Exceptions may be made only in emergency situations and in the case of scheduling conflicts with college sponsored events by promptly submitting a written request detailing the circumstances to the instructor of the course. **Your meeting time for your final is: finals week, online.**