

ASCI 100: Fundamentals of Animal Biology and Industry

Spring, 2023

Instructor: Dr. Bryan Reiling, C204a Animal Science, 472-8960 (office), breiling2@unl.edu

Reiling Office Hours: It's been a unique couple of years, but hopefully we're getting back to normal. If you have questions regarding anything related to this class (or even if it's not, and you simply want or need to visit), send me an email or self-schedule a meeting (face to face or via zoom) through the Student Success Hub. If you do not see any times that work with your schedule, send me an email providing at least 2-3 times that work for you. When received, I'll try to identify a time that also works for me and send you a confirmation. I'm also happy to visit with you before (once everything is set up and ready to go for the day) or after class. Bottom-line, if you have questions or concerns regarding this class or other factors that may contribute to your future and academic success, we can find a time to visit. I want to help you succeed!

Class Times / Location: MWF, 10:00 AM (B101 Animal Science)

Required Materials: No Textbook is required.

Reference: Canvas: my.unl.edu - Reference materials, study/review questions, etc.
- Announcements

Educational Objectives - Upon completion of course, students should be able to do each of the following:

1. Discuss the broad scope of disciplines and opportunities that exist in the various animal industries.
2. Discuss the varied roles that animals play in human welfare.
3. Prepare a general overview of the various animal industries and their associated products.
4. Summarize the basic biological principles associated with each major discipline of Animal Science.
5. Describe and provide examples of the application of biological principles to the production and management of animals used for the benefit of human welfare.
6. Explain the general purpose, proper usage, and impact of various management techniques commonly used in the various animal industries.
7. Identify and discuss the issues and status of current and emerging practices, strategies, and techniques associated with animal biology, production, and management.
8. Describe and summarize the affiliation that exists between animal production, other agricultural enterprises, and human welfare

Grading:	Grade Points and Percentages	Points	~ % of Total
Syllabus/Respondus Lockdown Quiz.....		5 pts.....	0.6%
Online Individual Exams			
Module 1 Exam (available online, 2/13-2/15)		100 pts.....	12.1%
Module 2 Exam (available online, 3/6-3/8)		100 pts.....	12.1%
Module 3 Exam (available online, 4/17-4/19)		100 pts.....	12.1%
Final Exam (available online, 5/15-5/17).....		200 pts.....	24.2%
9 Online Quizzes (25 pts each; drop 1 low score)		200 pts.....	24.2%
<u>Daily Participation Points (earn up to 5 pts/day to a maximum of 120 pts)</u>		<u>120 pts.....</u>	<u>14.6%</u>
Total Points		825 pts.....	100.00%

Explanations of Basic Grading Components

Individual Exams

- ✓ There will be three regular exams (100 pts each) and one final exam (200 pts).
- ✓ Exams will be completed online, through Canvas, utilizing Respondus Lockdown. A webcam is REQUIRED to open and complete all exams. If you do not have and cannot afford a webcam, visit with Dr. Reiling (they are relatively inexpensive). You will also need your photo ID. Finally, a quiet place to take the exam with a strong internet connection is highly recommended.
- ✓ Exams may be taken only ONCE with a maximum of 1 hour to complete the exam (2 hrs for final).
- ✓ Exams will come available by 12:00 pm on Monday (see schedule) and are DUE to be completed by 11:59 pm on Wednesday (see schedule). If you miss the completion due date/time, exams are available for two additional days, but a 10% late penalty (per day) will be assessed.
- ✓ Barring significant extenuating circumstances, a zero will be assigned to all exams not completed by 11:59 pm, Friday after release (see schedule).
- ✓ Most exam questions will be multiple-choice, but not necessarily all.
- ✓ Examination material may be pulled from any provided resource including recorded lectures, in-class discussions, and other materials provided in-class or via Canvas (i.e., glossaries of terms, other resources, video clips, etc.). Even if material is not specifically addressed during class, if provided, the material is "fair game" for testing purposes. For example, we may not discuss or use all terms provided as part of the glossaries, but you should still know those terms as a student of Animal Science.
- ✓ Questions will appear one at a time, and you must answer each question before moving forward.
- ✓ The final exam will have 100 pts devoted to "new" material, and 100 pts cumulative (i.e., associated with material related to what was addressed with the 1st 3 exams). The cumulative portion will address the same material as previously tested but not necessarily the same questions.
- ✓ Grading appeals. If you answered a question wrong but believe your answer is justified, you may submit a written appeal (via email) detailing why you should be given credit for the answer. You must provide evidence supporting your answer and outline an associated convincing argument for the case. You have 1 week, after scheduled exam due date to submit your appeal. Thereafter, all scores are final.

Online Quizzes

- ✓ There will be 9 online quizzes; each quiz will be worth 25 points
- ✓ Each quiz may be taken up to three times; and your high score will be recorded.
- ✓ Quizzes are open-note, and unproctored, but you will only have 20 minutes to complete the quiz.
- ✓ Quizzes are ONLY available for a specified period and should be taken by the assigned due date.
- ✓ A 10% late penalty (per day) will be assessed for all quizzes completed after the assigned due date.
- ✓ Quizzes go off-line (no longer available) at 11:59 pm on Friday after release. Zeros will be assigned to all quizzes not completed by this time.
- ✓ Quizzes will be conducted through Canvas.
- ✓ All material provided in-class or through Canvas related to the quiz topic is "fair game".
- ✓ Questions will appear one at a time, and you must answer each question before moving forward.
- ✓ Because we all have busy lives, and it's slightly possible 😊 that you might forget to complete a quiz, or not do as well as desired, your LOW quiz score will be dropped from the grade calculation. Thus, your top 8 quiz scores will be used: total possible points = 200.

Daily Participation Points

- ✓ Active learning quiz questions &/or opinion polls will be administered during lecture, nearly every day.
- ✓ When administered, Daily "quizzes" &/or opinion polls will be worth up to 5 pts.
 - Participation (even if you answer everything wrong) will be worth at least 1 point/day.
 - Performance (answering review questions correctly) will be worth 1-4 points/day.
- ✓ Although there are 44 class meetings during the semester, on occasion, it may not be possible to administer a subsequent learning activity, other than lecture. However, you can be assured that

minimally, 200 points will be available (that's 40 of 44 class meetings).

- Will you earn all 5 points each day; probably not, but we're dropping one-third of the points.
- With regular attendance (in class or via zoom), there is no reason that you should not accumulate all 120 points that will contribute to your overall grade.
- Because we only count 120/200 possible points, there will be NO MAKEUPS.
- Points earned more than 120 may contribute to extra credit (see explanation on extra credit).

Extra Credit -

- ✓ A maximum of 20 extra credit points (2.4% of total points) may be earned throughout the semester.
- ✓ These extra credit points will be added to the student's total; not to the class total.
- ✓ How can I earn these extra credit points?
 - Extra Daily Points.
 - For every 20 additional points accumulated above 100 (the points that contribute directly towards grade determination), you will earn 2 extra credit points, up to a maximum of 8 extra credit points per the following scale:
 - 140-159 daily pts = 2 EC pts,
 - 160-179 daily pts = 4 EC pts,
 - 180-199 daily pts = 6 EC pts,
 - 200+ daily pts = 8 EC pts
 - For seminars that have an Animal Science or agricultural connection, you may earn up to 5 pts extra credit for your attendance and reflection. A reflection paper does not simply reiterate the seminar. Rather, I want you to provide your reflection -- your thoughts. Did you agree/disagree, why or why not? If the speaker provided suggestions, were they feasible. What do you think should be done? How might this issue affect your future livelihood? Etc., Etc. For credit, reflection reports (1 page, 1-inch margins, 12-pt Times New Roman font, single spaced) must be turned in by the end of the week following the seminar. ONLY hard copy reports, turned in before or after class will be accepted for potential extra credit.
 - Other Opportunities
 - Assist with FFA Livestock Mgmt CDE - Thursday, March 30
 - Assist with FFA Livestock Selection CDE - Friday, March 31
 - Occasionally, students may be notified of other opportunities to earn extra credit to encourage participation in various departmental, college, or university activities.
 - Once extra credit opportunities have come and gone, they are gone.

Guaranteed Grading Scale: The following overall course percentages represent guaranteed grade values.

A+ = Instructor Discretion	92% = A	89% = A-
86% = B+	82% = B	79% = B-
76% = C+	72% = C	69% = C-
66% = D+	62% = D	59% = D-

Mod	Topic	Module Available Date	Assignments / Quizzes / Exams				
			Item	1 st Avail	Due Date	Repeat	Points
1	Animals & Human Welfare	Mon, 1/17	Quiz 1	M, 1/30	W, 2/1	3X	25
1	Nutrition		Quiz 2	M, 2/6	W, 2/8	3X	25
			Exam 1	M, 2/13	W, 2/15	NO	100
2	Breeding/Genetics	Mon, 2/6	Quiz 3	M, 2/20	W, 2/22	3X	25
2	Reproduction		Quiz 4	M, 2/27	W, 3/1	3X	25
			Exam 2	M, 3/6	W, 3/8	NO	100
3	Livestock: Beef/Dairy	Mon, 3/1	Quiz 5	M, 3/20	W, 3/22	3X	25
3	Livestock: Poultry/Pork/Sheep		Quiz 6	M, 4/3	W, 4/5	3X	25
3	Meats & Animal Products		Quiz 7	M, 4/10	W, 4/12	3X	25
			Exam 3	M, 4/17	W, 4/19	NO	100
4	Equine Industry	Mon, 4/10	Quiz 8	M, 4/24	W, 4/26	3X	25
4	Companion Animal Industry		Quiz 9	M, 5/8	W, 5/10	3X	25
4	Animal Behavior		No specific quiz related to Animal Behavior				
			Final	M, 5/15	W, 5/17	NO	200

Day	Topic/
M, 1/23	Introductions & Course Overview What is Animal Science and What are my career options?
W, 1/25	Value of Animals to Humanity
F, 1/27	Value of Animals to Humanity
M, 1/30	Q1 (Value of Animals to Humanity) available; Due 11:59 pm, W, 2/1 Nutrition
W, 2/1	Nutrition cont.
F, 2/3	Nutrition cont.
M, 2/6	Q2 (Nutrition) available; Due 11:59 pm, W, 2/8 Nutrition cont.
W, 2/8	Nutrition cont.
F, 2/10	Nutrition cont.
M, 2/13	Exam 1 (Value of Animals to Humanity, Nutrition) available; Due 11:59 pm, W, 2/15 Breeding & Genetics (Start of Exam 2 material)
W, 2/15	Breeding & Genetics cont.
F, 2/17	Breeding & Genetics cont.
M, 2/20	Q3 (B&G) available; Due 11:59 pm, W, 2/22 Breeding & Genetics cont.
W, 2/22	Breeding & Genetics cont.
F, 2/24	Reproduction
M, 2/27	Reproduction cont. Q4 (B&G; Reproduction) available; Due 11:59 pm, W, 3/1
W, 3/1	Reproduction cont.
F, 3/3	Reproduction cont.
M, 3/6	Reproduction cont. Exam 2 (B&G, Reproduction) available; Due 11:59 pm, W, 3/8

Day	Topic/
W, 3/8	Overview of the Beef Industry (<i>Start of Exam 3 material</i>)
F, 3/10	Overview of the Beef Industry cont.
M, 3/13	Spring Break - No Classes
W, 3/15	Spring Break - No Classes
F, 3/17	Spring Break - No Classes
M, 3/20	Overview of the Dairy Industry <i>Q5 (Beef, Dairy) available; Due 11:59 pm, W, 3/22</i>
W, 3/22	Overview of the Dairy Industry cont.
F, 3/24	Overview of the Poultry Industry
M, 3/27	Overview of the Poultry Industry cont.
W, 3/29	Overview of the Pork Industry
F, 3/31	State FFA Livestock CDEs - No Class
M, 4/3	<i>Q6 (Poultry/Pork); Due 11:59 pm, W, 4/5</i> Overview of the Pork Industry cont.
W, 4/5	Overview of the Sheep Industry
F, 4/7	Meats and the Consumer
M, 4/10	<i>Q7 (Meats); Due 11:59 pm, W, 4/12</i> Meats and the Consumer cont.
W, 4/12	Meats and the Consumer cont.
F, 4/14	Meats and the Consumer cont.
M, 4/17	<i>Exam 3 (Livestock Industries & Meats) available; Due 11:59 pm, W, 4/19</i> Horses and the Equine Industry (<i>Start of Exam 4 Material</i>)
W, 4/19	Horses and the Equine Industry cont.
F, 4/21	Horses and the Equine Industry cont.
M, 4/24	Horses and the Equine Industry cont. <i>Q8 (Equine) available; Due 11:59 pm, W, 4/26</i>
W, 4/26	Horses and the Equine Industry cont.
F, 4/28	Overview of the Companion Animal Industry
M, 5/1	Overview of the Companion Animal Industry cont
W, 5/3	Overview of the Companion Animal Industry cont.
F, 5/5	Overview of the Companion Animal Industry cont.
M, 5/8	<i>Q9 (Companion Animals) available; Due 11:59 pm, W, 5/10</i> Overview of the Companion Animal Industry cont. Animal Behavior
W, 5/10	Animal Behavior cont.
F, 5/12	Animal Behavior cont. <i>End of Exam/Module 4 Material</i> <i>Online FINAL EXAM available at Noon, Mon. 5/15; due 11:59 pm, Wed., 5/17</i> <ul style="list-style-type: none"> ■ 100 pts new material; 100 pts from material associated with 1st 3 exams ■ New material = Module 4 (horses, companion animals, and behavior)

In-class Review/Discussion Recordings: Although we're starting to get back to normal, and my preference would be for everyone to be in class, I fully understand that some individuals may still prefer a remote learning option to reduce the risk of infection. To accommodate, all in-class reviews/discussions will be accessible in "real time" via Zoom (<https://unl.zoom.us/j/510287173>). Passcode = 959612. These sessions will also be recorded and posted to Canvas within 24 hours after class for your review **provided combined attendance (in-person and via zoom) does NOT drop below 80% for more than 2 consecutive days**. These will be posted in the various modules under a page titled "Module ____: In-class Recordings". Recorded lectures are transcribed electronically (closed captioning) by Zoom, however, electronic transcriptions are NOT always 100% correct. If there is discrepancy, it is the verbal transmission upon which you should focus.

Are you looking for **ways to increase your academic success** either in this class or others? The First-Year Experience & Transition Programs (FYE&TP) office can help! The FYE&TP academic success coaches and weekly workshops support all UNL students with topics like time management, overcoming procrastination, and successful test-taking strategies. Schedule a coaching session on MyPLAN or call at 402-472-1880. Helpful resources can also be found on the FYE&TP website at <http://success.unl.edu>.

Additional Policies and Supplementary Information

Cellular Phones: It is recognized that cell phones and other electronic devices are an important tool for our daily lives. I recognize you may get a text, for which you feel compelled to immediately respond; not a problem, but don't let it supersede the primary purpose of your presence in this classroom. If it is of critical importance, take it outside and deal with the situation, sometimes things happen. However, it's also been proven that "your texting" can be disruptive to those around you. Thus, continual texting, game playing, etc., will not be tolerated. At first, you may be asked politely to put the phone (or other electronic device) away. If your texting, game-playing, web-surfing, etc., continues, you may "not so politely" ☹ be asked to leave. Be courteous and respectful of those around you who are here to learn. In addition, because it needs to be stated in the syllabus, if you are asked to leave because of your texting (&/or other activities on various electronic devices), **I reserve the right to implement a 10-point deduction or penalty on your next exam!** Now, perhaps you're expecting to receive an "important" message or phone call (believe me, I've had students buy a heifer through an online sale during class). **Let Dr. Reiling know prior to class.** Then, if the call/text comes, simply take it outside, conduct your business, and return when you're ready ☺.

University of Nebraska, Animal Science – General Class Policies

Instructional Continuity Plans: If in-person classes are cancelled by the University, you will be notified of the instructional continuity plan for this class with an announcement posted to Canvas. It is recommended that Canvas be set-up to automatically forward announcements to you, via email or text.

Grading Appeals: A student who feels that he/she has been unfairly graded must ordinarily take the following sequential steps in a timely manner, usually by initiating the appeal within the first 3 weeks of the semester following the awarding of the grade:

- 1) Student should schedule a meeting with the course instructor to discuss the issue. Most concerns are resolved at this point.
- 2) If student is not satisfied with results of the instructor meeting, a written appeal may be submitted to the ASCI Undergraduate Coordinator who will then forward that appeal to the Animal Science Undergraduate Curriculum Committee. The committee decision will be forwarded, in writing or via email, to the student by the ASCI Undergraduate Coordinator with instructor copied.
- 3) If student is not satisfied with the committee decision, he/she may meet with the instructor's unit administrator

(ASCI Department Head) to discuss the situation.

- 4) If the concern is not resolved at the departmental level, the final step is to submit a grade appeal to the CASNR Dean by contacting the Dean's Office, 103 Agriculture Hall. Notification to the Dean must be in writing and will include in the notice a statement of the grounds of appeal. Both the student and the instructor will be given an opportunity to present materials to the Dean in the presence of each other.

Photography and Videography in Areas with Animals: Contact between visitors (including students) to the University and animals used in research and teaching can constitute both a positive learning experience for the visitors, and a health risk to the animals and visitors. The following policy is intended to ensure a minimally disruptive environment to resident animals, to protect the health of research and teaching animals, to protect confidentiality and integrity of research, and to help in the accurate representation of the University's policies and procedures.

- 1) **Use of recording devices** such as cameras, video recorders, tape recorders, camera phones, etc. in a secured animal facility **must receive prior approval** from the Department Head, IACP Attending and/or Clinical Veterinarian, or the IACUC Compliance Coordinator, with the following exceptions.
 - a. When performed by authorized PI or designee when required for scientific or publicity reasons, when due consideration is given to ensuring that the University of Nebraska is accurately represented.
 - b. When performed by authorized personnel when required to assist in clinical diagnosis of disease.
 - c. When performed by authorized personnel when required to document compliance or animal handling issues at the direction of University officials, IACUCs, veterinarians, and representatives of federal agencies
- 2) This requirement is waived for government inspectors, and other visitors present at the request or as a requirement of the University (e.g., AAALAC site visitors, IACUC members, Laboratory Animal Veterinarians).
- 3) All approved recording procedures have been documented in the Animal Use Protocol on file for this course.
- 4) All visitors must abide by individual facility Standard Operating Procedures pertaining to protective clothing, TB testing, etc. If protective clothing is required for any particular activity conducted within this course, students will be notified of such needs (i.e., hard-soled shoes, etc.), or such protective gear will be provided (i.e., frocks and hard hats in the meat lab, etc.).
- 5) **Every effort** should be made **to show appropriate and accurate context** when audio or visual recordings are made (i.e., if an animal is anesthetized or sedated, include the vaporizer or tray holding the bottle of injectable drug).
- 6) The IACUC **reserves the right to review** any and all pictures and video recordings, tape recordings, or camera (film or digital) images **before release**, and **may require** that these **images/recordings** be **destroyed**.

University-wide Course Policies and Resources (<http://go.unl.edu/coursepolicies>).

Academic Honesty: Students are expected to adhere to guidelines concerning academic dishonesty outlined in Section II (<https://studentconduct.unl.edu/student-code-conduct#sectionii>) of the UNL Student Code of Conduct. Students are encouraged to contact the instructor for clarification of these guidelines if they have questions or concerns. Academic dishonesty may involve cheating; fabrication or falsification of information; plagiarism, including copying of written materials or "cutting and pasting" from websites without proper referencing; destroying, defacing, stealing, or making inaccessible library or other academic resource material; complicity in the academic dishonesty of others; falsifying grade reports; or misrepresenting illness, injury, accident, etc., to avoid or delay an examination or the timely submission of academic work. Consequences of academic dishonesty in Animal Science courses, depending upon degree of severity as interpreted by the instructor, may range from a warning to receipt of an "F" for the course. The instructor may also choose to assign a zero or partial credit for a specific assignment, quiz, examination, or laboratory report in which dishonesty was involved. If a student facing sanctions due to academic dishonesty in an Animal Science course wishes to appeal such a sanction, the following process must be followed. First a written appeal is submitted by the student to the chief instructor of the course. If resolution is not obtained, the student may submit a written appeal to the Animal Science Department Head who will forward the matter to the Animal Science Curriculum Committee. If a satisfactory solution is still not achieved at the departmental level, the student may then appeal through the CASNR Dean's Office and the University Director of Student Judicial Affairs, in that order and subject to the processes and requirements of those offices.

Emergency Responses (<https://emergency.unl.edu/>)

- 1) **Fire Alarm (or other evacuation):** In the event of a fire alarm, gather belongings (purse, keys, cellphone, N-card, etc.), and use the nearest exit to leave the building. Do not use the elevators. After exiting, notify emergency personnel of the location of persons unable to exit the building. Do not return to the building, unless told to do so by emergency personnel.
- 2) **Tornado Warning:** When sirens sound, move to the lowest interior area of the building or designated shelter. Stay

away from windows and stay near an inside wall when possible.

3) Active Shooter:

- a. **Evacuate** – If there is a safe escape path, leave belongings behind, keep hands visible and follow police officer instructions.
- b. **Hide out** – If evaluation is impossible, secure yourself in your space by turning out lights, closing blinds, and barricading doors, if possible.
- c. **Take action** – As a last resort, and only when your life is in imminent danger, attempt to disrupt and/or incapacitate the active shooter.

4) UNL Alert: Notifications about serious incidents on campus are sent via text message, email, unl.edu website, and social media. For more information, go to <http://unlalert.unl.edu>.

5) Additional Emergency Procedures can be found at ...

- a. <https://emergency.unl.edu/>.

Disability Clause: The University strives to make all learning experiences as accessible as possible. If you anticipate or experience barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can discuss options privately. To establish reasonable accommodations, I may request that you register with Services for Students with Disabilities (SSD). If you are eligible for services and register with their office, make arrangements with me as soon as possible to discuss your accommodations so they can be implemented in a timely manner. SSD contact information: 117 Louise Pound Hall Bldg., 402-472-3787.

Mental Health and Well-being Resources: UNL offers a variety of options to students to aid them in dealing with stress and adversity. Counseling and Psychological & Services (CAPS) is a multidisciplinary team of psychologists and counselors that works collaboratively with Nebraska students to help them explore their feelings and thoughts and learn helpful ways to improve their mental, psychological and emotional well-being issues arise. CAPS can be reached by calling 402-472-7450. Big Red Resilience & Well-Being provides one-on-one well-being coaching to any student who wants to enhance their well-being. Trained well-being coaches help students create and be grateful for positive experiences, practice resilience and self-compassion, and find support as they need it. BRRWB can be reached by calling 402-472-8770.

Face Coverings: We do not know everyone's individual situation, and we should fully respect everyone's right to wear a face covering to protect themselves from communicable diseases including COVID-19. Face coverings will only be required, if mandated by upper administration in efforts to protect the general and University community.

We, the members of the University of Nebraska community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.