

# **ANS 3006 INTRODUCTION TO ANIMAL SCIENCE**

*Spring 2026*

*Hybrid, Flipped Format; 3 Credits*

## **Instructor**

Amie Imler, MS

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or by appointment using [this link](#)

## **TAs:**

Adelee Burns

Colin Check

Carolina Moreno

Jordan Thompson

Eva Woods

## **Communication Expectations:**

Spring student consultations will be handled via phone, email, Zoom, Teams, or in-person. ***You can expect a response from your instructor within 48 hours, excluding holidays and weekends.***

## **Course Description**

Role of aquaculture, beef cattle, dairy cattle, goats, horses, poultry, sheep and swine in serving humans. Introduction to nutrition, growth, reproduction, meats and genetics related to improving livestock production.

## **Course Learning Objectives**

1. Analyze the broad scope of disciplines and opportunities existing in the livestock industry and their contribution to humans.
2. Describe the basic principles of Animal Sciences.
3. Recognize the purpose, proper usage, and impact of management techniques used in the various livestock industries.
4. Develop an insight into the problems and status of livestock production.
5. Realize the affiliation that exists between livestock production and other agricultural enterprises.
6. Develop an appreciation of the various livestock industries.

## **Course Pre-requisites**

BSC 2005 or BSC 2010

## **Course Overview**

This course is taught using a flipped classroom model. Although the lab is not a required course for non-Animal Sciences majors and may be taken in a separate semester from the lecture, it is strongly recommended you take ANS 3006L Introduction to Animal Sciences Laboratory in the same semester as the ANS 3006 Introduction to Animal Sciences lecture. Lecture and lab material are designed and

presented in a way to maximize your learning experience. Grading for lecture and lab are independent of each other.

### **Textbooks, Learning Materials, and Supply Fees**

None Required

### **Required Technology and How to Obtain the Technology**

In this course, we will be utilizing eLearning at [elearning.ufl.edu](http://elearning.ufl.edu) to share content, pre-recorded lectures, and assignments. You will also be expected to monitor grades as well as course announcements for important updates and information in Canvas. Lecture outlines and supplements will also be available for you to download as needed.

### **Technical Issues**

UF Computing Help Desk & Ticket Number: All technical issues require a UF Helpdesk Ticket Number. The UF Helpdesk is available 24 hours a day, 7 days a week. <https://helpdesk.ufl.edu/> | 352-392-4357

Additionally, you should notify the instructors of technical issues as soon as they occur so they can decide to make accommodations for submitting late assignments.

### **Schedule**

***MWF 2 period (8:30 AM – 9:20 AM)***

***ANS156***

***Lecture:*** Recordings to be watched asynchronously via Canvas each week ***prior to*** the corresponding discussion periods on Mondays and Wednesdays.

***Pre-Module Quizzes:*** A pre-quiz must be taken to unlock each week's module to access pre-recorded lectures in Canvas. New research indicates pre-testing can be an effective study strategy. Researchers believe errors on pre-tests help spur your curiosity, prime you to find the correct answers when you do interact with new material, and connect your background knowledge to the new material.

***Discussions:*** Meet twice per week on Mondays and Wednesdays in small groups to discuss lecture topics, complete and submit quizzes (IRATS/TRATS), complete professional development and in-class application activities, as well as seek guidance on out-of-class assignments.

***Quizzes (IRATS/TRATS):*** Each week ***in class***, you will take a quiz on the module lecture material you watched or read before coming to class. These short quizzes are called readiness assurance tests. You will first take an individual readiness assurance test (IRAT), then have an opportunity to work in a small group to take the same quiz as a team (TRAT). Questions you missed on your IRAT can be changed and re-submitted on the TRAT as you all work collaboratively to better understand the material and even teach your peers.

***Quests:*** Every other week (as noted in the class schedule on the syllabus), a quest assessment will be given covering two lecture topics on Fridays during the scheduled class meeting time. Quests are shorter than tests, but longer than quizzes....hence the name, "Quests."

***In-Class Office Hours:*** During the week a quest is not scheduled, students will attend "office hours" during Friday's class meeting time to receive additional help on assignments, clarify missed questions on quizzes and previous quests, as well as review for upcoming quests.

## **Course Format**

We will use a three-step approach to teach and assess instructional modules:

1. **Preparation:** you will be required to complete module learning activities, primarily pre-quizzes, pre-recorded lectures, and readings, *prior to* your weekly discussion periods. **Each module pre-quiz must be completed to access the module pre-recorded lectures and readings. Pre-quizzes will be due every Saturday by 11:59 PM** to ensure you will have ample time to watch pre-recorded lectures and complete module readings before in-class discussions. **Each module pre-quiz is worth 5 points and points will be awarded for completion and not accuracy. No pre-quizzes will be dropped from the overall grade.**
2. **In-Class Readiness Assurance Testing:** Your preparation and understanding of each lecture module will be assessed by an IRAT/TRAT quiz each week *in class*. Near the beginning of the Monday discussion periods each week, you will be given an individual readiness assurance test (IRAT). Afterwards, you will be assigned to a small group where you will take a team readiness assurance test (TRAT). The TRAT will be the same test you took for your IRAT. As an individual and team, you will receive immediate feedback on your answers.
3. **Each module IRAT/TRAT will be worth 10 points.** As a result, tardiness and absences will have a negative impact on your overall grade. **You will be allowed to drop your two lowest IRAT/TRAT grades for the semester.**
4. **In-Class Application and Professional Development Exercises:** you will work individually and/or in small groups to complete exercises designed to help you apply and extend your knowledge of the module instruction you prepared for and were assessed on in the module IRAT/TRAT quizzes. Additionally, you may be asked to give your opinions during class discussions on relevant subject matter using information gained from the course. The goal is to increase engagement, explore concepts, provide real-time monitoring of concepts, and develop positive professional habits. In most cases, scores will be based on participation rather than correctness. **These assignments will be worth 10 points each. You will be allowed to drop your lowest five in-class application and professional development assignments.**

This approach incentivizes learning the material beforehand, attending classes, and contributing to team assignments, while also holding you accountable for coming to class prepared and working with your peers as a team.

## **Class Attendance:**

Daily attendance records will not be maintained for discussions. However, the materials for quests, out of class assignments, as well as in-class application and professional development assignments will be taken from the subject matter presented in the discussion periods.

Requirements for class attendance, make-up exams and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>.

### **Out-of-Class Assignments**

**Nine out-of-class assignments**, which include career surveys and problem-based assignments will be assigned. **Out-of-class assignments have varying point values, so please refer to the list below and Canvas to determine how much each is worth. Each out-of-class assignment is by 11:59 PM on the following dates:**

Career Survey: 10 points	Friday, January 16
Introduction Discussion: 10 points	Friday, January 23
Beyond the Plate Proposal: 15 points	Friday, January 23
Poultry Layer Housing Options & Assessments: 25 points	Friday, February 6
Comparative Animal Anatomy: 25 points	Friday, February 20
Beyond the Plate Rough Draft: 25 points	Friday, March 6
Animal Welfare Audit: 25 points	Friday, March 27
Beyond the Plate Final Draft: 15 points	Friday, April 10
Final Career Survey: 10 points	Friday, April 24

All out-of-class assignments will be posted in Canvas and will be submitted through Canvas. **All out-of-class assignments will count towards the final grade and may be submitted up to one week late with a 10% per day deduction.**

### **Quests:**

Rather than administering longer, less frequent tests, quests will be completed every two weeks. Quests will cover the previous two modules. **Each quest is worth a total of 50 points.** A total of seven quests will be administered throughout the semester. **Your lowest quest grade will be dropped for the semester.**

Quest 1:	Friday, January 30	50 points
Quest 2:	Friday, February 13	50 points
Quest 3:	Friday, February 27	50 points
Quest 4:	Friday, March 13	50 points
Quest 5:	Friday, April 3	50 points
Quest 6:	Friday, April 17	50 points
Quest 7:	<b>Thursday</b> , April 30	50 points

**Note: All quests are to be taken at their scheduled times. Make-up quests will only be given for prior excused absences and absences consistent with the university's make-up policies** (<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>). When appropriate, arrangements need to be made prior to the quest day.

*\*\*\*Reviews for the quests may be offered and are a courtesy. Reviews will be scheduled prior to the exam – students should monitor Canvas and in-class announcements for dates, times, and modality (in-person vs. virtual).*

## **Grading Policy**

Course grading is consistent with [UF grading policies](#).

### **Course Grading Structure:**

13 Pre-quizzes @ 5 points each	65 points
11 IRAT/TRATs @ 10 points each	110 points
10 In-class Application and Professional Development Activities @ 10 points each	100 points
6 Quests @ 50 points each	300 points
9 Out-of-Class Assignments	160 points
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	735 points

### **Grading Scale**

Final grades will be determined by calculating the percentage of points earned out of total points available. That percentage will correspond to a letter grade. No component will be given extra weight so you should be able to easily calculate your current grade and the number of points you need to get the final grade you desire. Letter grades will be assigned as follows:

≥90.0%	A	≥77.0% - <80.0%	C+	≥63.0% - <67.0%	D
≥87.0% - <90.0%	B+	≥70.0% - <77.0%	C	<60.0%	E
≥80.0% - <87.0%	B	≥67.0% - <70.0%	D+		

### **Academic Policies and Resources**

Academic policies for this course are consistent with university policies. See

<https://syllabus.ufl.edu/syllabus-policy/uf-syllabus-policy-links/>

### **Campus Health and Wellness Resources**

Visit <https://one.uf.edu/whole-gator/topics> for resources that are designed to help you thrive physically, mentally, and emotionally at UF.

Please contact [UMatterWeCare](#) for additional and immediate support.

### **Software Use**

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

## Tentative Lecture Schedule

Week	Module Lecture Topic(s)	Day	In-Class Activities, Discussion Topic(s), and Quest Schedule	Out-of-Class Assignments
1	Course Introduction and Overview	<b>Monday, Jan. 12</b>	<b>Classes Start: What is Animal Sciences?</b>	
1	Course Introduction and Overview	Wednesday, Jan. 14	Curiosity Killed the Class Beyond the Plate Assignment Overview	
1	Course Introduction and Overview	<b>Friday, January 16</b>	<b>No Class – Watch Module 1 Lecture Videos</b>	Career Survey
2	Introduction to Animal Sciences	<b>Monday, Jan. 19</b>	<b>No Class – MLK Jr. Holiday</b>	
2	Introduction to Animal Sciences	Wednesday, Jan. 21	The Role of Animals in Sustaining a Growing World	
2	Introduction to Animal Sciences	Friday, Jan. 23	In-Class Office Hours: Quest 1 Introduction to ANS Review Sheet Beyond the Plate Proposal Workshop	Introduction Discussion Beyond the Plate Proposal
3	Animal Health and Welfare	Monday, Jan. 26	Animal Health, Behavior, and Welfare Applications	
3	Animal Health and Welfare	Wednesday, Jan. 28	Livestock Housing Assessments	
3	Animal Health and Welfare	<b>Friday, Jan. 30</b>	<b>Quest 1</b>	
4	Nutrition	Monday, Feb. 2	Nutrition Applications	
4	Nutrition	Wednesday, Feb. 4	Introducing Comparative Anatomy	
4	Nutrition	Friday, Feb. 6	In-Class Office Hours: Quest 1 Corrections Quest 2 Nutrition Review Sheet	Poultry Layer Housing Options & Assessments
5	Reproduction	Monday, Feb. 9	Reproduction Applications	
5	Reproduction	Wednesday, Feb. 11	Estrous Cycle Applications	
5	Reproduction	<b>Friday, Feb.13</b>	<b>Quest 2</b>	
6	Genetics	Monday, Feb. 16	Livestock through the Decades	
6	Genetics	Wednesday, Feb. 18	EPD Case Studies	
6	Genetics	Friday, Feb. 20	In-Class Office Hours: Quest 2 Corrections Quest 3 Genetics Review Sheet	Comparative Animal Anatomy
7	Dairy	Monday, Feb. 23	Dairy Industry Applications	
7	Dairy	Wednesday, Feb. 25	From Moo to You: Dairy Cattle Life Cycle	
7	Dairy	<b>Friday, Feb. 27</b>	<b>Quest 3</b>	

Week	Lecture Topic(s)	Day	In-Class Activities, Discussion Topic(s), and Quest Schedule	Out-of-Class Assignments
8	Equine	Monday, March 2	Equine Industry Applications	
8	Equine	Wednesday, March 4	Foal to Finish Line: Equine Life Cycle Horse Slaughter Discussion	
8	Equine	Friday, March 6	In-Class Office Hours: Quest 3 Corrections Quest 4 Poultry Review Sheet	Beyond the Plate Rough Draft
9	Beef	Monday, March 9	Beef Industry Applications	
9	Beef	Wednesday, March 11	Pasture to Plate: Beef Cattle Life Cycle Beyond the Plate Peer Reviews	
9	Beef	<b>Friday, March 13</b>	<b>Quest 4</b>	
<b>10</b>	<b>Spring Break</b>	<b>March 14-21</b>	<b>No Class</b>	
11	Poultry	Monday, March 23	Poultry Industry Applications	
11	Poultry	Wednesday, March 25	Egg to Entree: Poultry Life Cycle Biosecurity Applications & Discussion	
11	Poultry	Friday, March 27	In-Class Office Hours: Quest 4 Corrections Quest 5 Beef Review Sheet	Animal Welfare Audit
12	Sheep and Goats	Monday, March 30	Sheep and Goat Industry Applications	
12	Sheep and Goats	Wednesday, April 1	Wool to Wardrobe: Sheep and Goat Life Cycle Beyond the Plate Peer Reviews and Workshop	
12	Sheep and Goats	<b>Friday, April 3</b>	<b>Quest 5</b>	
13	Swine	Monday, April 6	Swine Industry Applications	
13	Swine	Wednesday, April 8	Birth to Bacon: Swine Life Cycle	
13	Swine	Friday, April 10	In-Class Office Hours: Quest 5 Corrections Quest 6 Swine Review Sheet	Beyond the Plate Final Draft
14	Meats	Monday, April 13	Meat Industry Applications	
14	Meats	Wednesday, April 15	Mouth Behavior and Eating Experience	
14	Meats	<b>Friday, April 17</b>	<b>Quest 6</b>	
15	Aquaculture	Monday, April 20	Aquaculture Industry Applications	
15	Aquaculture	<b>Wednesday, April 22</b>	Gill to Grill: Mapping Aquaculture Production	
15		<b>Friday, April 24</b>	<b>No Class – Reading Days</b>	Final Career Survey
16	<b>Finals Week</b>	<b>Thursday, April 30 7:30 AM – 9:30 AM</b>	<b>Quest 7</b>	