

**ANEQ 101**  
**Food Animal Science**  
**Fall 2017**

**Instructor:** Dr. Samantha (Sam) Cunningham, Assistant Professor/Instructor  
145B Animal Sciences  
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Office Hours:  
M – 10:30 a.m. to 12 p.m. in 145B Animal Sciences  
Th – 11 a.m. to 12:30 p.m. at ARDEC (office location TBD)  
Or by appointment  
{even within outlined office hour times, appointments are encouraged}

**Class Time:** T and Th 9:30 to 10:45 AM at ARDEC – Taylor Auditorium

**Lab:** T: Sections 001 and 002: 1 to 2:50 p.m. at ARDEC  
Th: Sections 003 and 004: 1 to 2:50 p.m. at ARDEC

**Teaching Assistants:**

*Lecture:*

<i>Name</i>	<i>Email</i>	<i>Office Location</i>
Ali Stoddard	astodds@rams.colostate.edu	N/A
David Demarest	David.Demarest@colostate.edu	N/A

*Lab:*

<i>Name</i>	<i>Email</i>	<i>Office Location</i>	<i>Lab Section</i>
Ashley Budde	Ashley.Budde@colostate.edu	01	
Kayla Calvin	Kayla.Calvin@rams.colostate.edu	01	
Miranda Culbertson	Miranda.Culbertson@colostate.edu	063	
Nicole Jones	Nikki.Jones@rams.colostate.edu	01	

**Required Materials:** iCEV <https://login.icevonline.com/register>  
(available for purchase online ([www.icevonline.com](http://www.icevonline.com)) or in the CSU bookstore)  
\*\*Registration code will be provided as an announcement on Canvas\*\*

Scientific Farm Animal Production: An Introduction to Animal Science, 11<sup>th</sup> ed.,  
T.G. Field and R.E. Taylor. Pearson. ISBN-13: 978-0-13-376720-9

**Reference Text:** Introduction to Animal Science, 5<sup>th</sup> ed. W.S. Damron. Pearson.  
ISBN-13: 978-0-13-262389-6.

**Additional course materials:** Any additional course materials may also be found online on Canvas.  
<http://info.canvas.colostate.edu/>

**Other Requirements:** Basic calculator.

**Prerequisite:** No.

**Course description:**

Development, organization, trends, and management of the livestock industry; emphasis on applying science to the production of food and fiber.

**General Course objectives:**

ANEQ 101 is an introductory course that includes two lectures per week and one, two-hour laboratory per week. This course is designed to introduce students to the broad field of animal sciences and to help them develop an appreciation for the importance of the livestock and meats industries in American agriculture and to the American economy.

1. Students will develop a basic understanding of terminology used in livestock production systems.
2. Students will develop an understanding of “value” as related to animals and their products
3. Students will have hands-on experience with livestock.
4. Students will develop an appreciation for the different species of farm animals from both an individual and comparative perspective.
5. Students will develop an applied understanding of animal reproduction, anatomy and physiology, growth and development, breeding and genetics, nutrition and feeding, meat science, and livestock marketing.
6. Students will gain from the instructor’s general background and experience with livestock
7. Students will gain an appreciation of animal agriculture from a global perspective

**Course communication:**

*Contacting the instructor/TA:*

The best way to reach your instructor or TA’s is to utilize the posted office hours, make an appointment to see us in our office(s), or by email. Email is usually the fastest, easiest way to contact us. Please, IF you email, use “Introduction to Food Animal Science” in the subject line of your email. Because of the number of students in this class and the number of emails we receive each day, keeping track of course related email is much easier if you identify this in the subject line. Please also be sure to use your full name in your email so that we may reply/contact you. Please make sure that your correct email is on file with the university, so that we may contact you, share additional course materials, and send announcements.

You may also send messages on Canvas.

*Contacting you:*

Throughout the semester, we may need to contact you as individuals or as an entire class. Please make sure that CSU has your correct email on file. Course communication from instructors will come to you 1-as an announcement on Canvas or 2-in an email. Please be sure to check both regularly.

*Email policy:*

We will aim to answer emails in a timely manner within 24 hours during the school week (M-F).

**Lecture:**

Lecture will meet on Tuesday and Thursday, 9:30 to 10:45 a.m. at ARDEC in the Taylor Center Auditorium. Questions are always welcome during lecture. {If you have a question, it is a safe bet that someone else has the same one} Depending on the nature and scope of the question, it may be more appropriate to continue discussion after class or during office hours.

**Lab:**

Labs will meet on Tuesday and Thursday afternoons 1:00 to 2:50 pm. at ARDEC {Tuesday: Lab Section 001 and 002 Thursday: Lab Section 003 and 004} Questions are always welcome during lab. If you have a question, it is a safe bet that someone else has the same one} Depending on the nature and scope of the question, it may be more appropriate to continue discussion after class or during office hours.

- Attendance is required in all labs. It is not possible to “make up” a missed lab
- It is not fair to others in the class to offer special projects to individual students to improve their grade. Therefore, please do not request special treatment in the form of an “individual project” to improve your grade
- Exams and quizzes will be conducted in lecture and will include material presented in lecture and lab
- Quizzes may also be conducted in lab or online following lab
- Consider weather and scheduled lab exercises and dress accordingly

**Lecture/Lab Policy:**

We want everyone to succeed in lecture AND lab; meaning that you walk away understanding the material and hopefully want to learn more about livestock and being involved in the livestock industry. If at any time, concepts are unclear or you need to discuss your progress in the lecture or the lab, please contact and/or make an appointment with your course instructor or any of the teaching assistants.

**Attendance:**

Attendance and participation are important components of this course and are crucial for learning. Attendance is expected. By attending both lecture and lab regularly, you are setting yourself up for potential academic success in this course.

If you anticipate an excused absence, notify Dr. Cunningham IN ADVANCE (IN WRITING). Email is usually the best way to get in touch with Dr. Cunningham. If you anticipate an excused absence in lab, please notify your listed lab instructor/TA. IF you email, use “ANEQ 101” in the subject line of your email. Please also be sure to use your full name in your email so that we may reply/contact you. Anticipated excuses would include university related activities/events, personal health with a written excuse from a faculty advisor or doctor’s note. All other excuses may be held at the discretion of the instructor. The student is responsible for any missed information and/or class material, as well as making arrangements for making up any missed work.

Attendance is encouraged--There will be NO make up for the lab portion of this course, as it is impossible to do it over. It will not be fair to other students in class to offer special projects to individual students.

**Class conduct:**

Asking of questions and discussion of relevant information in and outside class is highly encouraged; however, talking to neighbors, texting, sleeping, or studying for other courses during class time will not be tolerated. Come to class ready for discussions (you will be called upon).

**NO CELL PHONES.** If you have a cell phone that rings during class, you will automatically receive an unexcused absence for that class meeting. If you have an emergency situation where you need to have a cell phone on during class, let me know ahead of time. Cell phones, blackberries, iPhones, or other electronic communication devices with built-in calculators cannot be used for exams and will not be tolerated; only actual calculators will be allowed. Please refrain from using your phones during labs, unless you are given permission from your instructor. Phones can be distracting from the task at hand and create safety concerns.

**Homework and Quizzes:**

Late assignments will not be tolerated. Five points will be deducted for each day an assignment is late. Due dates will be printed on the top of all homework assignments. Quizzes will be scheduled on the syllabus. Any changes to the schedule will be announced in class and posted on Canvas. The instructor reserves the right to give unannounced quizzes throughout the semester.

There will be 5 lecture exams given during lecture or assigned on Canvas. Make up exams will be provided the week prior to finals week. Make up quizzes will be given at the discretion of the instructor.

**iCEV:**

iCEV is an online learning platform. The content and material provided is required for this course. Students will purchase access online at [www.icevonline.com](http://www.icevonline.com) or in the CSU on campus bookstore. The instructor will provide further access and registration instruction on Canvas. The student is responsible for watching/listening/reviewing the supplemental material and taking the assessments that follow. These are separate quiz grades from those in lecture and lab for this course. These quizzes will make up 5% of your overall grade for this course.

**Course grade:**

5 hour exams	45%
Final exam	10%
Quizzes/homework	15%
iCEV	10%
Lab	20%

**Grading scale:**

99 to 100	A+
93 to 98	A
90 to 92	A-
87 to 89	B+
82 to 86	B
80 to 81	B-
77 to 79	C+
72 to 76	C
70 to 71	C-
67 to 69	D+
62 to 66	D
60 to 61	D-
≤ 59	F

The final exam will be comprehensive and is required for all students, minus those students that have earned an "A" grade prior to the final. Those students having earned an "A" prior to the final will be exempt from taking the final. The overall goal with multiple quizzes and exams is to provide each student with as many opportunities to succeed academically as possible in this course. If you attend lecture and lab and follow supplemental material, you should do well on exams and quizzes. {Special note regarding the final exam → Notification regarding the final exam will come from the instructor. You will be notified regarding exemption from the final exam at least 48 hours prior to the final exam.}

Dates listed on the syllabus are tentative. Exam and quiz dates will be scheduled on this syllabus. Any changes to exam or quiz dates will be announced in class and posted on Canvas.

If circumstances require you to miss an exam or quiz, you must notify Dr. Cunningham PRIOR to the scheduled examination time. No after the fact excuses will be accepted for quizzes or exams.

It is the sole responsibility of the student to obtain information announced in class. Some, but not all, class notes will be posted on Canvas. Should you miss class, it is the responsibility of student to obtain notes from a classmate. It is not the responsibility of the instructor to provide students will complete class notes.

Extra credit will not be offered in this course and final grades will not be curved.

#### **How much work is this course?**

Colorado State University's expectations for student workload are that for each credit hour of instruction, you will need to spend, on average, 3 hours to attend lecture and to complete out of class readings and assignments. Our expectation is that you will be able to excel in this course by devoting, on average, 12 hours per week to course related activities. This means that on average, you should expect to spend 7-8 hours per week completing reading assignments and studying.

#### **Academic Dishonesty:**

Any violation of the Academic Integrity Policy in Student Handbook (<http://www.ssw.chhs.colostate.edu/field/files/Field%20Manuals/Policies/CSU%20Policy%20on%20Academic%20Dishonesty.pdf>) will result in an automatic failure in the course. Plagiarism and cheating are areas of concern for the course. You are expected to do you on work. Plagiarism or cheating of any kind will not be tolerated could result in automatic failure of this course.

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# ANEQ 101--LAB

## Food Animal Science

### Dress code:

Due to the nature of this class (lecture and lab), you will be outside working around livestock during many lab periods. Please dress appropriately. The weather will change throughout the semester, therefore it is in your best interest to wear clothes and shoes/boots you do not mind getting dirty as well as hat, gloves, coat, etc., with all of your labs.

#### Mandatory attire:

- Shirts that cover the shoulders
- Pants; no shorts or skirts
- Shoes—closed toe

\*\* If you are not properly dressed for lab, you will not be allowed to participate due to safety concerns.

### Lab expectations:

When lab allows for students to handle livestock, safety of both the livestock and the handler are the primary concern. Following instructions from the instructor or guest lecturer is essential; there is no exception.

The objective of this course is to introduce students to the field of animal science and provide hands-on learning opportunities, please listen to instructors carefully regarding safety around livestock.

Please refrain from using your phones during labs, unless you are given permission from your instructor. Phones can be distracting from the task at hand and create safety concerns.

### Lab grades:

#### Lab grade is 20% of overall course grade

Lab Quizzes/Homework

60% of overall LAB grade

Lab Attendance and Participation

40% of overall LAB grade

**\*\*INFORMATION IN THIS SYLLABUS IS SUBJECT TO CHANGE\*\***

**TENTATIVE Lab Schedule**

<b>Week</b>	<b>Date</b>	<b>Topic</b>
1	8-22 / 8-24	Introduction
2	8-29 / 8/31	Breeds
3	9-5 / 9-7	Animal Products
4	9-12 / 9-14	Animal Behavior
5	9-19 / 9-21	Anatomy & Physiology/Growth & Development
6	9-26 / 9-28	Nutrition A :: Nutrition B**
7	10-3 / 10-5	Nutrition B :: Nutrition A**
8	10-10 / 10-12	Reproduction
9	10-17 / 10-19	Careers in Animal Science / ASC 4 year plan
10	10-24 / 10- 26	Animal Health
11	10-31 / 11-2	Beef Cattle
12	11-7 / 11-9	Dairy Cattle
13	11-14 / 11-16	Sheep and Goat
14	11-21 / 11-23	NO LAB THANKSGIVING BREAK
15	11-28 / 11-30	Swine
16	12-5 / 12-7	Meats

\*\*Nutrition A = Feed ID and Ration Formulation

Nutrition B = Feed ID and Ruminant GI Tract examination

### TENTATIVE Course Schedule

Week	Day	Date	Topic	For Next Week*	Assignment**
1	T	8-22	Course Introduction	Ch. 2	
	Th	8-24	Introduction to Animal Science Industry Overview	Ch. 2	
2	T	8-29	Industry Overview	Ch. 12-14	Quiz 1
	Th	8-31	Genetics	Ch. 12-14	
3	T	9-5	Genetics	Ch. 22	Quiz 2
	Th	9-7	Animal Behavior	Ch. 22	
4	T	9-12	Animal Behavior *end of material Exam I*	Ch. 9, 18	Quiz 3
	Th	9-14	Anatomy & Physiology Growth & Development		
5	T	9-19	<b>EXAM I</b>	Ch. 9, 18	
	Th	9-21	Anatomy & Physiology Growth & Development	Ch. 16	Quiz 4
6	T	9-26	Nutrition: Digestive Systems	Ch. 15	Quiz 5
	Th	9-28	Nutrition: Nutrients	Ch. 17	
7	T	10-3	Nutrition: Nutrient Requirements *end of material Exam II*		
	Th	10-5	<b>EXAM II</b>	Ch. 10	
8	T	10-10	Reproduction	Ch. 10, 19	
	Th	10-12	Reproduction	Ch. 21	Quiz 6
9	T	10-17	Animal Health	Ch. 21	
	Th	10-19	Animal Health	Ch. 24-25	<b>EXAM III<sup>+</sup></b>
10	T	10-24	Beef Cattle	Ch. 24-25	
	Th	10-26	Beef Cattle	Ch. 24-25	Quiz 6
11	T	10-31	Beef Cattle	Ch. 26-27	
	Th	11-2	Dairy Cattle	Ch. 26-27	Quiz 7
12	T	11-7	Dairy Cattle		
	Th	11-9	<b>EXAM IV</b>		
13	T	11-14	Sheep & Goats	Ch. 30-31	
	Th	11-16	Sheep & Goats	Ch. 30-31, 6	Quiz 8
14			NO CLASS → Fall Recess 11/20 – 11/24	Ch. 28-29	
	T	11-28	Swine		Quiz 9
	Th	11-30	Swine	Ch. 28-29	<b>EXAM V<sup>++</sup></b>
	T	12-5	Meats	Ch. 3	
	Th	12-7	TBD		Quiz 10
		12-11	FINAL EXAM 9:40 to 11:40 a.m.		

\* All readings will be from Scientific Farm Animal Production: An Introduction to Animal Science, 11<sup>th</sup> ed., T.G. Field and R.E. Taylor. Unless otherwise noted

\*\* All quizzes will be online on Canvas unless otherwise noted.

+ Exam III, covering Reproduction and Animal Health, will be an online assessment of knowledge

++ Exam V, covering Sheep & Goats and Swine will be an online assessment of knowledge

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