

SYLLABUS

Course Title:

AVS 146 Introduction to Animal Science Laboratory - 1 cr

Catalog Description:

Participants will be introduced to foundational applied techniques in animal nutrition, reproduction, and management of major farm animal species relevant to Maine. At the end of the course, students will apply class content to develop an animal business idea and present it to their peers.

Semester:

Fall 2021

INSTRUCTIONAL PERSONNEL**Course Instructor:**

Robert Causey

Phone: 207-922-7475, Email: rcausey@maine.edu

Graduate Assistant:

Madison "Maddy" Philbrick

Phone: 207-745-2762 email: madison.philbrick@maine.edu

Faculty and staff in School of Food and Agriculture and/or Cooperative Extension:

Colt Knight - Instructor for AVS 145 (lecture)

Rob Dumas

Witter Farm Staff:

Patricia Henderson

Josh Hatley

Equine Trainer:

Cassie Astle

Visiting Demonstrators:

Maine State Police

Student Assistants:

Alex Eisner

Grace Banks

Caitlyn Andrews

Classroom Civility:

Any successful learning experience requires mutual respect on behalf of the student and the instructor. The instructor, as well as the fellow students, should not be subjected to any student's behavior that is in any way disruptive, rude, or challenging to the instructor's authority in the classroom. A student should not feel intimidated or demeaned by his/her instructor and students must remember that the instructor has primary responsibility for control over classroom behavior and maintenance of academic integrity. The instructor can order the temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or conduct violating the

general rules and regulations of the institution.

Course Schedule:

Labs are scheduled Monday and Wednesday 10-12 and 1-3. However, due to time to get to and from the farm, the activities at the farm will start at 10.30 and 1.30. Walking groups will assemble at the Black Bear Statue on Campus at 10 and 1 to walk to the farm for those that do not have transportation. At the time of writing we are investigating the possibility of open air transport to the farm.

AVS 146 Schedule Fall 2021*					
Week	Monday Lab**	Wednesday Lab**	Activity	Location***	Instructor*
1	2021-08-30	2021-09-01	Monday lab only - safety training	Witter Center***	Philbrick/Causey
2	2021-09-06	2021-09-08	Wednesday lab only - safety training	Witter Center***	Philbrick/Causey
3	2021-09-13	2021-09-15	Dairy	Witter Center***	Henderson/ Marcinkowski
4	2021-09-20	2021-09-22	Dogs (tentative)	Witter Center***	State Police
5	2021-09-27	2021-09-29	Poultry	Witter Center***	Philbrick
6	2021-10-04	2021-10-06	Beef	Witter Center***	Knight
7	2021-10-11	2021-10-13	Fencing	Witter Center***	Knight/Causey
8	2021-10-18	2021-10-20	Knots/Hay	Witter Center***	Knight
9	2021-10-25	2021-10-27	Pigs	Witter Center***	Knight/Philbrick
10	2021-11-01	2021-11-03	Horses	Witter Center***	Causey
11	2021-11-08	2021-11-10	Cheese Lab	Witter Center***	Dumas/Knight
12	2021-11-15	2021-11-17	Sheep	Witter Center***	TBA
13	2021-11-22	2021-11-24	Turkey Consumption	Home	Friends/Family
14	2021-11-29	2021-12-01	Meat lab	Pilot Plant	Dumas/Knight
15	2021-12-06	2021-12-08	Make-up day	TBA	TBA
16	2021-12-13	2021-12-15	No class	Anywhere	Self-directed

*Schedule and personnel are subject to change

**Labs will run from 10.30 - 11.30 and 1.30 - 2.30 to allow time to travel to and from the farm

***Walking groups to farm leave at 10.00AM and 1.00PM from the black Bear Statue by Feld House at the end of mall

Course Goals:

This course is intended to give you hands and/or virtual experience in practical aspects of the care, use and handling of farm animals, and laboratory work related to animal health and management. Specifically the following topics will be covered:

1. Farm Safety
2. Dairy Cattle
3. Beef Cattle
4. Horses
5. Sheep
6. Pigs
7. Dog training
8. Necropsy
9. Nutrition
10. Reproduction
11. Microscopy
12. Genomics

Learning Outcomes:

After attending this class, students will be able to:

1. Use terms relevant to animal nutrition, reproduction, genetics, and livestock management.
2. Interpret and discuss basic animal nutrition, reproduction, genetics, and livestock management topics.
3. Handle major domestic animals of economic interest.
4. Conduct basic animal evaluation techniques.
5. Initiate the design of an animal science career path.

Course Materials: All course materials will be made available through Brightspace. There is no textbook for this class. Students must therefore have access to the internet. Laptops are available for 4-hour loan at Fogler Library (<http://www.library.umaine.edu/mrc/policy.htm#laptops>).

Clothing:

Steel-toe work boots are recommended if you are an AVS major. For this class sturdy leather shoes or boots are best. Working cowboy boots are ideal. If you are working with animals, especially cattle, pigs, sheep or poultry, long sleeve clothing and pants will be required. When working with horses on the ground, shorts and short sleeves are acceptable if the weather is hot, but in general, long sleeves and long pants are preferred for protection against ticks and abrasions. Leather work gloves are highly recommended. When the weather gets cold be prepared to dress warmly.

Directions to the farm

Here is the street address, and a link to the google maps location of the farm, if you are driving.

160 University Farm Road, Old Town, Maine - <https://goo.gl/maps/iuXuwRKcxnnGCHiJ7>

Transportation to Farm:

Students will have to provide their own transportation to the farm. Because of Covid we cannot offer transportation in a University owned vehicle. It takes 30 minutes to walk to the farm on a well traveled path through the University forest. This time will be factored into the lab schedule. Thus the 10.00AM and 1.00 AM labs will start at 10.30 and 1.30 respectively, and end at 11.30 and 2.30. Walking groups will leave from the large black bear statue at the end of the mall at 10AM and 1PM. There is also a bike path which leaves from the tennis courts and takes you to the farm road.

Remote learning versus “at farm” learning:

It will be possible to complete this class 100% remotely (however, you will get more value from the labs at the farm), and you may switch to remote at any point in the semester. However, if you start out remote you will not be able to switch to “at farm” because you will not have received the area specific training which has to be given in person. As part of your education, however, all students, remote or “at farm” are required to take the quizzes for Basic, Farm, and Area Specific Training.

Each lab section will have a short presentation, followed by an opportunity to work with the animals in small groups (5 or less) with social distancing. The presentation from the first lab section will be video recorded and posted to Brightspace. There will be a short quiz posted for each lab based on material in the video.

Rotation through chores on farm:

Students will observe one milking shift at the Witter center. Students will remain at least 3 feet apart from the cows being milked and are not allowed to participate in the milking itself under any circumstance. Students will also observe a chore in the horsebarn but will not be able to lead the horses. Students may enroll in the sheep club. The activities taking place on a chore will be posted to Brightspace as a video. There will be a short quiz on

each chore. You will sign up for a chore using as google drive spreadsheet. Having signed up, you MUST show up.

Area Specific Safety Training: Students are required to attend area specific safety training at the Witter center in person if they are taking the class on campus. Students that fail to complete this training will not be able to participate in farm activities. Please contact Elizabeth McLaughlin if you have not taken this training and plan to attend this class on campus at the Witter Center. Students will be required to complete the online quiz whether taking the class on campus or at home.

Annual Basic and Farm Safety Training Certificates:

All students are required to take the Annual Basic Safety Training by September 15th. Go to <http://sem.umaine.edu/safety-training/> and follow instructions. Similarly, all students are required to take the Farm Safety Training by September 15th. Go to <http://sem.umaine.edu/safety-training/> and follow instructions [Farm Safety (Agricultural Training Requirements)]. Submit both certifications as pdf or jpg files to Brightspace AVS 146. Students that do not comply will not be able to participate in farm activities and will automatically get zero in their reports and attendance, resulting in failure of the class.

Career Path in Animal Science and Veterinary Medicine:

As a final project, which will count as your final exam, you will map out a potential career for yourself in Animal Science and \or Veterinary Medicine. The key component will be to outline a feasible career option that will support you economically.

Grading:

Lab quizzes 30%

Rotation through chores and quiz 30%

Farm Safety Training: 10%

Annual Basic and Farm Safety Training Certificates: 10%

Area Specific Training: 10%

Career in Animal Science \ Veterinary Medicine Career Path. 10%

Final Grade Assignments:

A = 90-100%; B = 80-89%; C = 70-79%; D = 60 - 69%; F = below 60%

Warnings specific to working on farms:

Students who have concerns about their allergy status to animals are encouraged to check with their physician. Also, immunocompromised students are encouraged to consult with their physician about potential zoonotic disease transmission.

Academic Honesty Statement:

Academic honesty is very important. It is dishonest to cheat on exams, to copy term papers, to submit papers written by another person, to fake experimental results, or to copy or reword parts of books or articles into your own papers without appropriately citing the source. Students committing or aiding in any of these violations may be given failing grades for an assignment or for an entire course, at the discretion of the instructor. In addition to any academic action taken by an instructor, these violations are also subject to action under the University of Maine Student Conduct Code. The maximum possible sanction under the student conduct code is dismissal from the University. Please see the University of Maine System's Academic Integrity Policy listed in the Board Policy Manual as Policy 314: <https://www.maine.edu/board-of-trustees/policy-manual/section-314/>

Students Accessibility Services Statement:

If you have a disability for which you may be requesting an accommodation, please contact Student Accessibility

Services, 121 East Annex, 581.2319, as early as possible in the term. Students who have already been approved for accommodations by SAS and have a current accommodation letter should meet with me (Robert Causey) privately as soon as possible.

Course Schedule Disclaimer (Disruption Clause):

In the event of an extended disruption of normal classroom activities (due to COVID-19 or other long-term disruptions), the format for this course may be modified to enable its completion within its programmed time frame. In that event, you will be provided an addendum to the syllabus that will supersede this version.

Observance of Religious Holidays/Events:

The University of Maine recognizes that when students are observing significant religious holidays, some may be unable to attend classes or labs, study, take tests, or work on other assignments. If they provide adequate notice (at least one week and longer if at all possible), these students are allowed to make up course requirements as long as this effort does not create an unreasonable burden upon the instructor, department or University. At the discretion of the instructor, such coursework could be due before or after the examination or assignment. No adverse or prejudicial effects shall result to a student's grade for the examination, study, or course requirement on the day of religious observance. The student shall not be marked absent from the class due to observing a significant religious holiday. In the case of an internship or clinical, students should refer to the applicable policy in place by the employer or site.

Sexual Discrimination Reporting

The University of Maine is committed to making campus a safe place for students. Because of this commitment, if you tell a teacher about an experience of sexual assault, sexual harassment, stalking, relationship abuse (dating violence and domestic violence), sexual misconduct or any form of gender discrimination involving members of the campus, your teacher is required to report this information to the campus Office of Sexual Assault & Violence Prevention or the Office of Equal Opportunity. If you want to talk in confidence to someone about an experience of sexual discrimination, please contact these resources:

For confidential resources on campus:

Counseling Center: 207-581-1392 or Cutler Health Center: at 207-581-4000.

For confidential resources off campus:

Rape Response Services: 1-800-871-7741 or Partners for Peace: 1-800-863-9909.

Other resources:

The resources listed below can offer support but may have to report the incident to others who can help:

For support services on campus:

Office of Sexual Assault & Violence Prevention: 207-581-1406, Office of Community Standards: 207-581-1409, University of Maine Police: 207-581-4040 or 911. Or see the OSAVP website for a complete list of services at <http://www.umaine.edu/osavp/>

UNIVERSITY OF MAINE COVID-19 SYLLABUS STATEMENT

COVID-19 is an infectious disease caused by the coronavirus SARS-CoV-2. The virus is transmitted person-to-person through respiratory droplets that are expelled when breathing, talking, eating, coughing, or sneezing. Additionally, the virus is stable on surfaces and can be transmitted when someone touches a contaminated surface and transfers the virus to their nose or mouth. When someone becomes infected with COVID-19 they may either have no symptoms or symptoms that range from mild to severe and can even be fatal. During this global pandemic, it is imperative that all students, faculty, and staff abide by the safety protocols and guidelines set forth by the University to ensure the safety of our campus. All students are encouraged to make the Black Bear Cares Pact to protect the health of themselves, the health of others, and the College of Our Hearts Always.

Black Bears Care Pact: <https://umaine.edu/return/black-bears-care/>

Symptom checking: The symptoms of COVID-19 can range from mild to severe, and even people with mild symptoms may transmit the virus to others. Students are encouraged to use the symptom checking app each day before attending class or moving about campus and follow the recommendation prompted within the app. Students should monitor for the following symptoms daily: fever (temperature $\geq 100.4\text{F}/38.0\text{C}$) or chills, new cough, loss of taste or smell, shortness of breath/difficult breathing, sore throat, diarrhea, nausea, or vomiting, or the onset of new, otherwise unexplained symptoms such as headache, muscle or body aches, fatigue, or congestion/runny nose.

Physical distancing: Students need to make every effort to maintain physical distancing (6 feet or more) indoors and outdoors including within classrooms. The University classrooms and physical spaces have been arranged to maximize physical distancing. Follow the traffic patterns outlined in each building and outdoor space to avoid crowding. If students are in an academic setting (i.e. clinical or lab class) that requires them to reduce physical distancing, they should follow the instructor's guidelines.

Face coverings: Students must wear appropriate face coverings in the classroom. Face coverings must be worn in indoor and outdoor spaces on campus unless people are alone in a room with a door closed or when they are properly physically distanced and do not expect someone to approach them. When face coverings are removed people are placing themselves and those surrounding them at increased risk for COVID-19.

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