

The Future of Agriculture

Dairy Science Club attending the 2020 Southeast Dairy Student Symposium in historic Savannah, Georgia.

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ACADEMIC INSIGHT

On February 15, we will showcase our new ADS departmental building and the Meat Science & Muscle Biology Laboratory while giving the students a few hands-on opportunities so they get to experience some of the activities they will do as students.

The students and their guests will ride a bus from main campus to the ADS Building. We expect them to arrive at the ADS building by 10:30 AM. Everyone involved with undergraduate teaching activities has an important role at this event.

Our Group Leaders are Drs. Clay Cavinder, Erdogan Memili and Mr. Brett Crow.

Event Schedule

Gross Anatomy Lab| 2020 ADS Building - Dr. Caleb Lemley and Grad students

**Meat Science & Muscle Biology Lab Tour | Meat Lab
Drs. Derris Burnett & Thu Dinh**

“Other” Activities | South side of the ADS building

- **Cow milking experience| Dr. Amanda Stone**
- **“Holy Cow” |Drs. Henry Paz & Brian Rude**
- **“Hands” on horses| Dr. Molly Nicodemus**
- **arcM Rabbitry showcase| Animal Room 1120| Emily Sherman**

Lunch (grab-n-go)| ADS Food Service Area



Save the Date!

Hands On Horses

Saturday April 25, 2020

At the MAFES Horse Unit
in Starkville, MS

*A hands-on day of
practical horse management topics!*



"Like" us: Mississippi State University Extension Equine

NUTRITIONAL MANAGEMENT

EQUINE ATHLETE CONFORMATION

DENTAL CARE

PRACTICAL FARRIER WORK

BITS, BRIDLES, AND TRAINING TOOLS

BODY CONDITION SCORING

VITAL SIGNS AND HOW TO TAKE THEM

ALTERNATIVE SPORTS MEDICINE

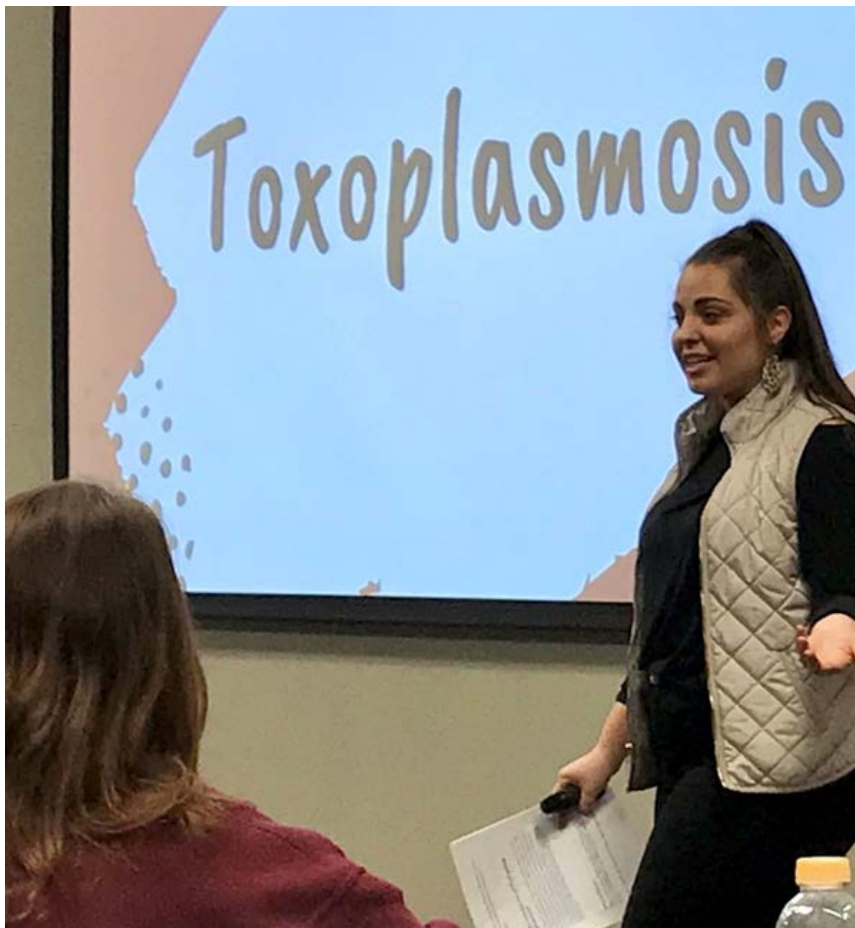
THERAPIES

Contact Dr. Clay Cavinder
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ADS GRADUATE STUDENTS EDUCATE ADS 2221 STUDENTS ON COMPANION ANIMALS

As the start of the spring semester unfolds, the new ADS 2221 Companion Animal Management Laboratory kicked off a second year of course offering. A part of the success of ADS 2221 last spring was the contribution of the ADS graduate students and this spring will be no different. The first of the ADS graduate students to contribute to the ADS 2221 laboratories was Ms. Madison Hardcastle.

Madison is a new ADS MS graduate student that presented on pet parasite control this past week to the ADS 2221 students. Madison comes from the University of Central Arkansas and during her undergraduate academic career she worked at a veterinary practice as a veterinary assistant. Through her experience working at the veterinary practice, Madison gained valuable experience working with companion animals that she was able to share with the ADS 2221 students.



Madison Hardcastle discussing pet parasite control in ADS 2221

Madison's presentation included pictures and videos that she took during her surgeries and laboratory work she did while working at the veterinary practice.

Madison isn't the only graduate student that has experience in companion animals that will be sharing this experience with the ADS 2221 students this semester.

In an upcoming laboratory in February, recent PhD graduate Dr. Courtney Heaton will be sharing her experience in training and competition in dog agility. This is the second spring semester that Dr. Heaton has contributed to this course.

Additional graduate students planning to present later in the semester include Ms. Carter Cark and Mrs. Katie Cagle-Holtcamp. Through her work at a local veterinary clinic, Carter will be continuing the discussion on pet health care, while Katie will be sharing her experience working in the field of animal assisted therapy.

These presentations help to showcase the wealth of experience that the ADS graduate students bring to the classroom.

For further information about ADS 2221, contact course instructor Dr. Molly Nicodemus at mnichodemus@ads.msstate.edu.

DAIRY SYMPOSIUM

From January 19th to 20th, Dairy Science club students, Carolina Canestrano, Brittany Semko, Carly Becker, Clay Hodges, Danelle Moffett, Kayla Standrod, Malik Travis, Sarah Blaske, and Jacinda Leopard, attended the 2020 Southeast Dairy Student Symposium in Savannah, Georgia.

During this event, students went to various seminars, met industry leaders, met students from various agriculture schools, and attended a dairy trade show where they were able to network for potential careers and internships.

During the opening seminar, students heard from Abbey Gretsche from Corteva Agriscience as well as Bruce Matson from Dean Foods, both of whom placed emphasis on asking questions, being informed, and taking advantage of opportunities.

Before the trade show, students attended a seminar on resume building which provided them the feedback they needed when meeting business representatives during the trade show. Many of these companies were offering internships and jobs in areas such as communications, research, production, and sales.

Later during an industry and producer panel, students learned the importance of proper social media interactions and representation.



ADS 2221 STUDENTS LEARN ABOUT ANIMAL ASSISTED ACTIVITIES & THERAPY



Students in ADS 2221 Companion Animal Laboratory spent last week touring the Elizabeth A. Howard 4-H Arena in West Point, MS and meeting with the volunteer coordinator of the MSU Extension Equine Assisted Activities & Therapy (EAAT) Program, Mrs. Lori Irvin.

Mrs. Irvin discussed the facilities and the benefits of the program. A representative of the veterans program at the West Point facility was also there to discuss the use of horses in the treatment of post-traumatic stress disorder along with the value of service dogs for these individuals.

A service dog was there for the students to interact with and learn about. At the end of the presentation, students took the opportunity to sign up for volunteering at the EAAT program.

For individuals interested in learning more about the ADS 2221 course, they can contact contact the course instructor Dr. Molly Nicodemus at mnicodemus@ads.msstate.edu.

2020 Refereed Publications

- Ugur, Muhammet Rasit, **Thu Dinh**, Mustafa Hitit, Abdullah Kaya, Einko Topper, Bradley Didion and **Erdogan Memili**. Amino Acids of Seminal Plasma Associated With Freezability of Bull Sperm. *Frontiers in Cell and Developmental Biology*. January 2020, Volume 7, Article 347. doi: 10.3389/fcell.2019.00347
- Hasan, M. S., **M. A. Crenshaw**, and **S. F. Liao***. 2020. Dietary lysine affects amino acid metabolism and growth performance, which may not involve the GH/IGF-1 axis, in young growing pigs. *Journal of Animal Science*, 98(1): (1-7). DOI: <https://doi.org/10.1093/jas/skaa004>
- Özbek, Mehmet, Mustafa Hitit, Emel Ergün, Levent Ergün, Feyzullah Beyaz, Füsün Erhan, Nuh Yıldırım, Banu Kandil, Özge Özgenç, **Erdoğan Memili**. Expression profile of Toll-like receptor 4 in rat testis and epididymis throughout postnatal development. *First International Journal of Andrologia*. 2020;00:e13518. <https://doi.org/10.1111/and.13518>
- Gomes, Fabio P., Jolene K. Diedrich, Anthony J. Saviola, **Erdogan Memili**, Arlindo A. Moura, and John R. Yates, III*. ETHcD and 213 nm UVPD for Top-Down Analysis of Bovine Seminal Plasma Proteoforms on Electrophoretic and Chromatographic Time Frames. *Analytical Chemistry*. <https://dx.doi.org/10.1021/acs.analchem.9b03856>