



College of Agriculture  
and Natural Resources  
MICHIGAN STATE UNIVERSITY

# Department of Animal Science

## BY THE NUMBERS

90

certificate  
students

400

undergrad  
students

170

graduate  
students

88

faculty  
members

4,608

alumni

## ABOUT

- Offering education and research on the safe, nutritious and economical production of animals for:
  - food production
  - fiber sources
  - recreational purposes
- Efforts focus on preserving the environment and the health and well-being of the animals and farming communities.
- Education through high-quality courses, research and outreach programs to enhance knowledge and innovation and ensure that agricultural producers in Michigan and around the world benefit.

## PROGRAMS

- **Two-year certificates:** Institute of Agricultural Technology offers programs in dairy management, horse management and livestock industries.
- **Undergraduate:** Bachelor of Science degree in animal science in the following concentrations: animal industries, companion and exotic animal biology, animal biology/pre-veterinary or production animal scholars.
- **Graduate:** Master's and Ph.D. in a variety of animal science disciplines.

## STUDENTS

- Take part in one or more paid internships.
- Participate in study abroad programs.

## GIVING OPPORTUNITIES

There are various ways to support faculty and students, including:

- Research and teaching centers, campus farms and facilities.
- Graduate students and teaching assistants.
- Undergraduate study abroad, internships and field trips.

## CONTACTS

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## WAYS TO GET INVOLVED

**LEARN:** A desire for lifelong enrichment marks a true Spartan. A wide variety of programs are available in person and online for continues learning.

**GET TOGETHER:** On campus and throughout the world there are many opportunities for Spartans to connect with one another.

**GIVE BACK:** Spartans make a difference. Join our ranks of Spartans who are enhancing the MSU experience for students, faculty and staff.

**TRADITIONS:** There are many ways for alumni and fans to show their support of the university.

**FIND OUT MORE:** [canr.msu.edu/alumniengagement](https://canr.msu.edu/alumniengagement)

## STAY CONNECTED

**UPDATE** your information: [alumni.msu.edu/update](https://alumni.msu.edu/update).

**EMAIL:** Sign-up to receive the CANR Alumni newsletter: [canr.msu.edu/alumninewsletter](https://canr.msu.edu/alumninewsletter).

**MAGAZINE:** Read *In the Field*, featuring stories from the college. Join the mailing list by making a gift at the Spartan Loyal level or above.

**WEB:** [canr.msu.edu/alumni](https://canr.msu.edu/alumni)

**FOLLOW CANR** on social:

## RESEARCH

- Synchronization of ovulation strategies, increasing fertility in lactating dairy cows and embryo production in donor cows. Improving the reproductive efficiency of lactating cows can significantly increase profitability of dairy operations. Ovsynch was co-developed as an internationally used ovulation synchronization protocol.
- With renowned equine studies in exercise physiology and nutrition, research focuses on the growth and development of horses involved in sports competitions with an emphasis on the prevention of skeletal injuries.
- Environmental effects on developing fetus in humans, as well as in sheep. Studies include fetal origins of metabolic disease, placental programming of adult disease and sheep intensive production systems. Researching how chemical exposures during pregnancy can potentially affect the child later in life.

## OUTREACH

- Providing knowledge and educational programming to the citizens of Michigan.
- Engaging animal industry stakeholders in integration and application of relevant, research-based knowledge in biology and management using multidisciplinary approaches, including:
  - Genetics
  - Nutrition
  - Health
  - Physiology
  - Meats and management
  - Youth development opportunities
  - 4-H educational programs.