

ANIMAL SCIENCE

Learning outcomes

Master of Professional Studies (M.P.S.)

1. **KNOW:** Students will demonstrate appropriate breadth and depth of disciplinary knowledge in animal science (e.g., livestock production and management), a command of the current animal agricultural industrial practices, and a thorough understanding of the problems related to livestock production.
2. **APPLY/CREATE:** Students will apply current knowledge in their field to analyze problems and create solutions to improve animal production or welfare.
3. **COMMUNICATE:** Students will effectively communicate their research findings, both in writing a research paper and by seminars, oral or poster presentations, to peers, advisors/mentors, and other scholars and/or stakeholders in their specialty field or beyond their discipline.
4. **THINK:** Students will be able to conceptualize and critically evaluate the work of others in their field.
5. **PROFESSIONAL PRACTICE:** Students will be able to identify ethical issues in animal agriculture industry, will become familiar with University policies involving the use of animals and human subjects in research, will act ethically and exhibit collegiality with other professionals within or outside of their field.

4. **THINK:** Students will be able to conceptualize and critically evaluate the work of others in their field.
5. **PROFESSIONAL PRACTICE:** Students will be able to identify ethical issues in research, will become familiar with University policies involving the use of animals and human subjects in research, will act ethically and exhibit collegiality with other professionals within or outside of their field, and will engage in service to the profession and to society.

Master of Science (M.S.)

1. **KNOW:** Students will demonstrate appropriate breadth and depth of disciplinary knowledge (e.g., nutrition, physiology, statistics, etc.), a command of the current literature relating to their thesis project.
2. **APPLY/CREATE:** Students will apply current knowledge in their field and learn to design animal studies and/or perform laboratory methods or other techniques to address their research problems.
3. **COMMUNICATE:** Students will effectively communicate their research findings via seminars and poster presentations.
4. **THINK:** Students will be able to conceptualize and critically evaluate the work of others in their field.
5. **PROFESSIONAL PRACTICE:** Students will be able to identify ethical issues in research, will become familiar with University policies involving the use of animals and human subjects in research, will act ethically and exhibit collegiality with other professionals within or outside of their field.

Doctor of Philosophy (Ph.D.)

1. **KNOW:** Students will demonstrate appropriate breadth and depth of disciplinary knowledge (e.g., nutrition, physiology, statistics, etc.), a command of the current literature relating to their thesis project, and a thorough understanding of the problems that their research addresses.
2. **APPLY/CREATE:** Students will apply current knowledge in their field to design animal studies and/or perform laboratory methods or other techniques to address their research problems, while generating and testing new ideas or hypotheses that provide solutions to those problems.
3. **COMMUNICATE:** Students will effectively communicate their research findings, both in writing, via abstracts and manuscripts, and orally, via seminars and oral or poster presentations, to peers, advisors/mentors, and other scholars and/or stakeholders in their specialty field or beyond their discipline.