

Department of Animal Science
Responsible Conduct of Research Plan (RCR)
(Effective January 1, 2017)

A. Year 1 (all graduate students)

All new graduate students will complete 4 CITI online modules (<http://ora.msu.edu/train>) within the first year of enrollment in their program (completion of these modules will be tracked in the Ability Learning Management System). Completion of this requirement will be recorded by the department's graduate administrator in GradInfo as INITIAL training.

- CITI Introduction to the Responsible Conduct of Research
- CITI Authorship
- CITI Plagiarism
- CITI Research Misconduct

B. Year 2 (all graduate students)

Graduate students will complete within the first 2 years of enrollment, 3 additional CITI online training modules, to be selected from the following list. Completion of this requirement will be tracked in Ability.

- CITI Collaborative Research
- CITI Conflicts of Interest
- CITI Data Management
- CITI Financial Responsibility
- CITI Mentoring
- CITI Peer Review
- IACUC Tutorial for Animal Care Training
- Human Research Protection/ IRB Certification
- Rigor and Reproducibility Course (<https://grad.msu.edu/rcr>)

C. Discussion-Based Training (all graduate students)

All graduate students will complete a minimum of 6 hours of discussion-based training prior to receiving their degrees. During both Fall and Spring semesters, a 1.5-hour discussion session open to all graduate students and interested faculty will be scheduled. The planning and implementation of these discussions will be a collaborative effort between the department's graduate committee and the Animal Science Graduate Student Association. The topics of these discussions will vary from semester to semester, but will focus on one of the nine topics covered by the CITI modules (authorship, plagiarism, research misconduct, collaborative research, conflict of interest, data management, financial responsibility, mentoring and peer review). An additional option to fulfill the 6-hour discussion-based training is to attend one or more workshops of the Graduate School's Responsible Conduct of Research and Scholarship Workshop Series (<https://grad.msu.edu/rcr>). It is generally expected that these discussion-based training hours will be completed by the end of the second year, but these hours can be completed at any point in the graduate program, including as part of the ongoing training requirement (for doctoral students and continuing MS students). Completion of discussion-based training will be entered in Ability LMS and will be recorded by the department's graduate administrator in GradInfo as ANNUAL training. It is also expected that there will be ongoing dialogue between the student and major professor regarding issues related to responsible conduct of research.

D. Year 3 (Ph.D. students and continuing MS students)

Starting in year 3, all doctoral students and any MS students continuing beyond year 2 must complete 3 hours of annual refresher training. This can include discussion-based training as described in C) above, online courses beyond the 7 required in basic training as described in A) and B) above, and workshops in the Graduate School's Responsible Conduct of Research, Scholarship and Creative Activities Workshop Series. Completion of this requirement will be recorded by the department's graduate administrator in GradInfo as ANNUAL training.