

CVM Responsible Conduct of Research Requirements

1) Basic Training (required for DVM Professional, MS and PhD students, and Post-doctoral Fellows (including Visiting Fellows))

All trainees will complete introductory Responsible Conduct of Research training within their first year. This training can be fulfilled by completion of the RCR Basic course in CITI (including the following modules: Introduction, Authorship, Collaborative Research, Data Management, Mentoring, Plagiarism, Research Misconduct as well completion of the Using Animal Subjects in Research Module. The Using Animal Subjects in Research in addition to the Basic Course, as currently listed in CITI.

Completion of this training will be recorded and tracked in the MSU online Saba system.

2) Discussion-Based Training (required for DVM, MS and PhD students, and post-doctoral fellows)**

For DVM Students:

Discussion-Based training will be incorporated into the current Ethics Course for our DVM students; however, our curriculum is undergoing major revisions and these discussion sessions may be held in different contexts in the new curriculum.

For all others:

The trainees will complete a minimum of 5 hours of discussion-based training. For post-doctoral and visiting fellows and graduate students in the CMIB program, these discussions take place with the mentor, in special one on one or in small group sessions, such as lab meetings with the mentor. The faculty are encouraged to use the book "On Being a Scientist" by the National Academies available online as the basis for these discussions. (<https://www.nap.edu/catalog/12192/on-being-a-scientist-a-guide-to-responsible-conduct-in>). One of these sessions will focus on Reproducibility in Research.*

Completion of this training will be recorded by the department in GradInfo as "Initial" training.

*The requirements Discussion-Based Training can also be fulfilled by participation in the Graduate School RCR Workshop Series. However, space can be limited. We urge students and mentors to utilize the discussion based training in laboratory meetings or in one on one sessions.

Completion will be recorded in the MSU Saba system, and it should also be recorded by the department in GradInfo.

3) Annual Refresher Training (Required for MS and PhD students, and post-doctoral fellows)

Three hours of annual refresher. The trainees will be expected to participate in at least 3 hours of small group discussions on an annual basis.

Completion will be recorded by the department in GradInfo as "Annual" training.

4) Participation in CMIB Book Club Discussion: (Required at least once for MS students, twice for PhD Students)

Participating at Program Book Club, where trainees, graduate students, fellows and faculty meet to discuss a book of choice and its relevance to current issues in RCR has been a cornerstone of training activities. Two different books are selected each year. Books are selected by solicitation from all CMIB faculty and students, reviewed by CMIB Program Directors and put to vote. Examples of suitable titles include "Great Feuds in Medicine: Ten of the Liveliest Disputes Ever" by Hel Hallman, "The Immortal Life of Henrietta Lacks" by Rebecca Skloot, and J.V. Parker, or "The Art and Politics of Science" by Harold Varmus and other titles that may offer rich grounds for discussion and community-wide understanding of RCR issues. A sign in sheet is used and kept at the department to document participants at each discussion session.

Completion will be recorded by the department in GradInfo as Additional Discussion Training.

RCR Plan for Online Master of Science in Food Safety, College of Veterinary Medicine

In order to comply with the new MSU requirements for incorporating the Master's Plan B Responsible Conduct of Research training into the MS in Food Safety Curriculum several additions to the existing curriculum will be made.

The 4 required CITI modules (Introduction to the Responsible Conduct of Research, Authorship, Plagiarism, and Research Misconduct) will be incorporated into the VM 810 Introduction to Food Safety course. This course is the first core course students are required to take, thus fulfilling the requirement that the CITI Modules be completed in the first year. Students will be required to provide documentation of their successful completion (a score of 80% or higher) of the courses to the course instructor.

The 6 hours of discussion-based training will be incorporated into VM 830 Food Safety Research Methods. This course is generally taken just before students complete their final Applied Research Project for VM 815 in their 2nd or 3rd year of coursework. Six new instructor-led discussion forums will be added to the course and will include the following topics: Authorship, Research Misconduct, Plagiarism, Data Management, Conflict of Interest, and Collaboration. Instructors will pose questions to the students, who will respond to the instructor and also respond to others student's posts. Instructors will guide the discussion and respond as needed. Participation in each discussion will be required.

The completion of the training will be recorded in Grad Info and each student's completion status will be checked prior to signing the degree conferral paperwork.