Initial training (NSF: min 5 hours & 3 hr refresher annually; NIH: min 8 hours)

1) All individuals associated with a project will attend a 1 hour introduction to the topic of RCR during the annual new graduate student orientation.

   TOTAL for this segment: 1 hour

2) All individuals associated with a project will be certified by the MSU Human Research Protection Program (HRPP) [http://www.humanresearch.msu.edu/](http://www.humanresearch.msu.edu/), AND/OR the MSU Institutional Animal Use and Care Committee (IACUC) [http://www.animalresearch.msu.edu/](http://www.animalresearch.msu.edu/)

   THE HRPP training includes the online MSU tutorial for HRPP [http://35.8.104.116:591/ucrihs/ucrihs_tutorial/](http://35.8.104.116:591/ucrihs/ucrihs_tutorial/) and the required CITI (Collaborative Institutional Training Initiative) to which MSU has access [https://www.citiprogram.org/](https://www.citiprogram.org/)

   The IACUC training includes the online MSU tutorial for IACUC, Animal Care and Use Tutorial [http://www.iacuc.msu.edu/training/auc_tutorial/toc_tutorial.htm](http://www.iacuc.msu.edu/training/auc_tutorial/toc_tutorial.htm), and species specific training [http://www.iacuc.msu.edu/specific_training.html](http://www.iacuc.msu.edu/specific_training.html);

   TOTAL for this segment: 3 hours

3) Attendance at the GS workshop series on Responsible Conduct of Research (minimum 4 of 6 sessions excluding animal/human welfare) or substitute appropriate content with documentation by PI.

   To cover topics: Research Integrity/Misconduct, Mentoring, Data Acquisition & Ownership/Sharing, Conflict of Interest.

   TOTAL for this segment: ~4 hours

4) Readings as assigned from the GS “research integrity” website, then individual P.I. meetings for Q&A with individuals related to Publication Practices and Responsible Authorship, and Peer Review.
TOTAL for this segment: 1 hour

5) As appropriate for NSF and additional topics for meeting NIH total of 8 hours, Mid-year faculty led department seminar: Collaborative Science, The Scientist as a Responsible Member of Society, Contemporary Ethical issues in Biomedical Research, and The Environmental and Societal Impacts of Scientific Research.

TOTAL for this segment: 1 hour

**Refresher training (NSF: min of 3 hours annually)**

1) Complete the required recertification for human research protection.

AND/OR complete protection module from research integrity council website, animal protection case study and role play, with lab members and PI.

TOTAL for this refresher portion ~ 1-2 hours

2) Other use of CITI modules for general RCR — PI will require readings/discussion on areas important for the professional development of the undergrad, grad student, postdoc, technician or any others involved in research on the project.

AND/OR additional reading assigned as appropriate from IACUC policies & guidelines page [http://iacuc.msu.edu/guidelines.html](http://iacuc.msu.edu/guidelines.html).

TOTAL for this refresher portion ~1-2 hours

3) Annual attendance at department RCR training in new graduate student orientation, and mid year seminar by faculty.

**NOTE:** trainees who come with “certification” in RCR from another institution must provide a copy of the certificate and the curriculum/syllabus.