

Responsible Conduct of Research Training

Department of Mathematics

The initial training of PhD students and individuals associated with research projects will consist of the following components:

1. Completion of at least 2 workshops offered by the Graduate School on Responsible Conduct of Research. The schedule and description of workshops is available at <http://grad.msu.edu/rcr/> . For individuals involved in human subjects research, one of the workshops may be substituted with MSU tutorial for Human Research Protection Program (HRPP) available at <http://www.humanresearch.msu.edu/> .

Total time: 4 hours during academic year.

Documentation: list of workshop participants from the Graduate School, HRPP certificate.

2. Completion of a 2-hour face to face training with a designated faculty member. During the training, the following issues will be addressed:
 - Authorship guidelines
 - Plagiarism
 - Conflict of interest
 - Research Misconduct
 - Questionable Research Practices

Students keep a summary RCR document outlining these issues.

Total time: 2 hours during first or second week of Fall semester.

Documentation: signed Form I below after completion of this portion of training.

3. Completion of assigned reading from the list below. This list will be updated annually.
 - MSU Authorships Guidelines available at <http://rio.msu.edu/authorshipguidelines.htm>
 - Research Data: Management, Control, Access available at http://rio.msu.edu/research_data.htm
 - Teaching Responsible Conduct of Research. Lancet 2009 Nov 7;374(9701):1568.
 - Hegyvary ST. What every author should know about redundant and duplicate publication. Journal of Nursing Scholarship, 2005, 37(4): 295-297.
 - DeAngelis CD. Duplicate publication, multiple problems. JAMA, 2004, 292:1745-1746.
 - Froman RD. The importance of peer review. Research in Nursing and Health, 2006, 29:253-255.

Total time: 2 hours during Fall/Spring semester for student's first year at MSU.
Documentation: signed Form II given below after completion of this portion of training.

The refresher training will occur annually and will include:

1. Review of the summary RCR document, conflict of interest and authorship issues and discussion with a designated faculty member. Total time: 1 hour.
2. Completion of assigned reading from the updated list of resources. Total time: 2 hours.
3. Completion of HRPP refresher training as required (every 2 years, total time: 4 hours)

MTH GRADUATE STUDENT'S CERTIFICATION FORM I

I understand each of the preceding standards. _____ (initial)

I certify that I am able to meet each of these standards as a graduate student at the Michigan State University Department of Mathematics _____ (initial)

OR

I wish to discuss these standards and/or discuss reasonable accommodations with the appropriate individuals at the Michigan State University Department of Mathematics _____ (initial)

Name (please print or type) _____

Signature _____ **Date** _____

MTH GRADUATE STUDENT'S CERTIFICATION FORM II:

I have completed the assigned reading and I understand their content. _____ (initial)

OR

I wish to discuss their content with the appropriate individuals at the Michigan State University Department of Mathematics _____ (initial)

Name (please print or type) _____

Signature _____ **Date** _____