



Graduate School 0900 (GS0900)

Essential Research Practices: Responsible Conduct of Research

Fall 2020

Zero credit hours

Course Coordinators:

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Instructors:

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Todd Leff	Associate Dean, Graduate School	tleff@wayne.edu
Stephanie Hawkes	Office of Multicultural Student Engagement	gd2711@wayne.edu
Phil Cunningham	Associate Vice President of Research Integrity	philc@wayne.edu
Fred Vultee	Associate Professor of Communication	dx4632@wayne.edu
Moh Malek	Associate Professor of Physical Therapy	en7488@wayne.edu

Time/Location:

This is an online course. All components will be accessible through the GS0900 course site on Canvas.

Registration:

PhD students can register for the course the same way you would register for any other course at Wayne State. Access the registration portal on Academics (course title is GS0900, CRN17022).

[Postdoctoral fellows can register by completing this form.](#)



Responsible Conduct of Research (RCR) Training: GS0900

Course Objectives

This course is required for all PhD students in their first year and is recommended for all postdoctoral trainees. It is required for all postdoctoral trainees funded by the WSU Office of the Vice President for Research, by governmental funds from the National Institutes of Health (NIH), the National Science Foundation (NSF), as well as select other agencies. Failure to complete the course may compromise a trainee's ability to obtain or maintain external fellowship funding and attainment of candidacy status; it may also compromise a mentor's compliance with funding agencies.

GS0900 presents instruction on topics essential for the Responsible Conduct of Research. Content for the course is delivered in three stages:

STAGE 1: Online RCR training using the Collaborative Institutional Training Initiative (CITI) system.

STAGE 2: A set of online presentations focused on WSU-specific resources related to RCR.

STAGE 3: Discipline-specific instruction delivered by the student's department or program.

Information from all three stages is necessary for comprehensive RCR training and the development of the trainee.

Learning objectives. Refer to ability-based outcomes (ABO) descriptions appended to this document.

- Understand proper practices to manage and record research findings. (Ability-Based Outcome (ABO) 1.1).
- Prepare and present research findings in a manner consistent with ethical delivery practices (ABOs 1.1, 1.2, 1.3 and 1.5).
- Identify improper ethical practices in research and understand how to initiate awareness of these practices to the mentor, department and university (ABOs 1.2 and 1.5).
- Apply appropriate ethical judgment when conducting research (ABOs 1.3, 1.5, 1.6).

Recommended Reading:

An excellent description of RCR principles as they apply to both STEM and humanities research areas are distilled nicely in a NIH publication: NIH NOT-OD-10-019 (<https://grants.nih.gov/grants/guide/notice-files/NOT-OD-10-019.html>).



Detailed information for each stage of the course

STAGE 1: CITI Training.

- The 11 RCR training modules are located on the CITI Web site: <https://www.citiprogram.org/index.cfm?pageID=14>, under the heading: “GS0900 RCR Core Topics Course”.
- All 11 modules must be completed to receive a passing grade in the course.
- Instructions for accessing the CITI training and uploading a completion report are provided on the GS0900 Canvas course site.
- The 11 modules are:
 1. Introduction to RCR
 2. Responsible Authorship
 3. Collaborative Research
 4. Conflicts of Interest
 5. Data Management
 6. Financial Responsibility
 7. Mentoring
 8. Peer Review
 9. Plagiarism
 10. Research Misconduct
 11. Research Ethics

STAGE 2: WSU-specific modules on the GS0900 Canvas site. (Must be completed by Oct. 1)

Assignment	Topic	Presenter	Required/Optional
1	Introduction to RCR at WSU	Todd Leff	Required
2	Implicit bias and inclusion training	Stephanie Hawkes	Required
3	CITI Training modules	None	Required
4	Research Misconduct and Conflict of Interest	Phil Cunningham	Required
5	Conflict resolution and mentoring	Sokol Todi	Required
6	Research with human subjects: the IRB	Fred Vultee	Optional
7	Research with animals: the IACUC	Todd Leff & Moh Malek	Optional
8	Plans for Stage 3 training	None	Required
9	Exit survey	None	Required

STAGE 3: *Discipline Specific RCR Training by Department and Mentor*

The third stage of the course should be completed as soon after stage 2 completion as possible. Each Department/Program is required to provide RCR training as it specifically pertains to the research activities in their specific discipline. The content of this training will vary substantially depending on the field of inquiry and research methods and can be delivered as a dedicated course or imbedded as a component of a general introductory or research methods course. The expectation is that this content delivery should be at least 1 hour in duration. Additionally, it is the responsibility of each mentor to initiate and maintain formal



conversation with their trainees, to monitor research conduct and to recommend additional training if necessary. Expectation is that this discussion should be on a one-on-one basis and the initial discussion should last a minimum of 1 hour. Students must provide a short essay describing their plans for completing Stage 3 training (assignment #8 on the Canvas course site).

Assessment:

Stage 1: CITI training will be assessed using imbedded quizzes at the end of each module. **Stage 2:** Wayne State-specific training will be assessed by the completion of a brief quiz or survey associated with each module. Each student must complete a short questionnaire about their plans for Phase 3, as well as an exit survey to earn a passing grade. **Stage 3:** Completion is assessed by the trainee’s department/program and mentor.

Special Learning Needs:

University policy - (University Policy located at <https://studentdisability.wayne.edu>. If you feel that you may need an accommodation based on the impact of a disability, please feel free to contact the course coordinator privately to discuss your specific needs. Additionally, the Office of Educational Accessibility Services (EAS) coordinates reasonable accommodations for students with documented disabilities. The Office is located within the David Adamany Undergraduate Library, phone: 313-577-1851 (Voice) / 577-3365 (TTD)."

Grading policy:

Students who complete **Stages 1 and 2** will have a "PASS" grade entered on their transcripts. Postdocs who complete **Stages 1 and 2** may request a completion certificate, if needed.

In the Event of Course Failure:

Students and postdocs who do not complete **either Stage 1 or 2** the course will be given an INCOMPLETE in the course, which can be lifted upon completion of the missing components. Students receiving a FAIL grade will be required to retake the entire course.

Federal Grant Agency Requirement Regarding RCR Frequency:

The National Institutes of Health recommend that instruction must be taken "[at least once during each career stage, and at a frequency of no less than once every four years.](#)" Taking GS0900 every four years satisfies this requirement.



**Ability Based Outcomes – PhD/Postdoc Participants
The Graduate School
Wayne State University**

The purpose of this document is to define a set of concise outcomes for students completing their PhD at Wayne State University regardless of their respective program. The outcomes outlined in this document are ability-based outcomes (ABOs). ABOs define what students will be able to do as a result of completing Responsible Conduct of Training associated with completion of their PhD degree at Wayne State University. ABOs do not define the knowledge skills and attitudes that enable students to meet the outcomes. They define what graduates can do as a result of knowledge, skills and attitudes gained through completing RCR training.

The ABOs will be used in conjunction with other content area measures for curricular assessment.

Upon completion of the RCR training, the student will be able to:

1. Demonstrate commitment to a high standard of applying RCR practices.
 - 1.1 Maintain professional competence by in utilizing proper data management and recordkeeping in their respective field.
 - 1.2 Possess the attitudes required to identify and apply research ethical practices.
 - 1.3 Be able to apply moral reasoning in common research practices.
 - 1.4 Utilize effective strategies related to their mentoring (ex. Individual Development Plan) to help advance their academic training.
 - 1.5 Recognize, initiate and advocate change in issues related moral reasoning in resolving conflicts, issues related to peer review (authorship and peer review), and violations of ethical research practices.
 - 1.6 Apply practices of responsible conduct of research specific to the student's field of training.