Graduate School 0900 (GS0900)
Essential Research Practices: Responsible Conduct of Research
Fall 2019 – Zero credit hours

Course Coordinators:

Dr. Todd Leff, Assoc. Prof & Assoc. Dean of the Graduate School, tleff@wayne.edu
Dr. Sokol Todi, Assoc. Prof & Assoc. Dean of the Graduate School, stodi@wayne.edu

Instructors:

<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
</tr>
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<tbody>
<tr>
<td>Sokol Todi</td>
<td>Associate Dean, Graduate School</td>
<td><a href="mailto:Ej5561@wayne.edu">Ej5561@wayne.edu</a></td>
</tr>
<tr>
<td>Faith Hopp</td>
<td>Professor of Social Work</td>
<td><a href="mailto:Bb2938@wayne.edu">Bb2938@wayne.edu</a></td>
</tr>
<tr>
<td>Krista Brumley</td>
<td>Associate Professor of Sociology</td>
<td><a href="mailto:Dx4900@wayne.edu">Dx4900@wayne.edu</a></td>
</tr>
<tr>
<td>Caroline Maun</td>
<td>Chair, Department of English</td>
<td><a href="mailto:Av4495@wayne.edu">Av4495@wayne.edu</a></td>
</tr>
<tr>
<td>Ken Massey</td>
<td>Adjunct Professor of Pharmacology &amp; Sr. Director of Venture Development, OVPR</td>
<td><a href="mailto:Cq0728@wayne.edu">Cq0728@wayne.edu</a></td>
</tr>
<tr>
<td>Graham Parker</td>
<td>Assistant Professor of Pediatrics</td>
<td><a href="mailto:Af7515@wayne.edu">Af7515@wayne.edu</a></td>
</tr>
<tr>
<td>Fred Vultee</td>
<td>Associate Professor of Communication</td>
<td><a href="mailto:Dx4632@wayne.edu">Dx4632@wayne.edu</a></td>
</tr>
<tr>
<td>Moh Malek</td>
<td>Associate Professor of Physical Therapy</td>
<td><a href="mailto:En7488@wayne.edu">En7488@wayne.edu</a></td>
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Time/Location:

**Date:** Saturday, September 7, 2019
Time: 8:30 a.m. – 2:00 p.m. (breakfast and lunch provided)
Location: Margherio Family Conference Room, Scott Hall, 540 E. Canfield, School of Medicine
Parking: Lot #75 at 545 E. Canfield (Across Canfield from Scott Hall).

Parking in Lot #75 for PhD students in the WSU parking program will be $4. Please call the Parking Office at 577-1979 in advance of the workshop to gain one-time access to the lot. For those not in the parking program, parking costs $8 and is payable by Visa, Mastercard or Discover cards. However, postdocs not in the parking program can use their One Card (with sufficient funds) and will be charged the $7.75 employee rate to park in Lot #75. City of Detroit metered street parking may also be available around Scott Hall.
Responsible Conduct of Research (RCR) Training: GS0900

Course Objectives

This course is required for all PhD students in their first year, it is required for all postdoctoral trainees funded through governmental funds, and it is recommended for all postdoctoral trainees. Failure to complete the course may compromise a trainee’s ability to obtain or maintain external fellowship funding and attainment of candidacy status.

GS0900 presents instruction on topics essential to performing Responsible Conduct of Research (RCR) practices. 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 one-day course with presentations on specific RCR core topics (this event). STAGE 3: Departmental and/or mentor based RCR instruction in topics specific to the trainee’s field of study. Information from all three stages is central for comprehensive student/postdoc RCR training and to the development of the student.

Students and postdocs will be able to:

- Understand proper practices to manage and record their research findings. (ABO 1.1).
- Prepare and present their 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).

*Full Ability-Based Outcome (ABO) descriptions are appended at the end of this document*

**Recommended Reading:**

An excellent description of RCR principles as they apply to both STEM and humanities research areas are distilled nicely in a National Institutes of Health 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 under the “GS0900 RCR Core Topics Course” on the CITI Web site: [https://www.citiprogram.org/index.cfm?pageID=14](https://www.citiprogram.org/index.cfm?pageID=14).
- All 11 modules should be completed before the stage two session, and must be completed to receive a passing grade in the course.
- The 11 modules are:
  1. Introduction to RCR
  2. 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
- Directions for completing the GS0900 specific CITI training are posted on the course Canvas page under the title CITI Training Registration and Core Topics Completion Protocol.

**STAGE 2: Saturday course (September 7th, 2019)**
Please arrive by 8:30 for registration. A full breakfast and lunch will be served.

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<tr>
<th>Time</th>
<th>Lecture Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:30-9 a.m.</td>
<td>Registration and breakfast</td>
<td>Dr. Sokol Todi</td>
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<tr>
<td>9-9:30 a.m.</td>
<td>Opening remarks and orientation</td>
<td>Dr. Sokol Todi</td>
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<tr>
<td>9:30-10 a.m.</td>
<td>Conflict resolution and mentoring</td>
<td>Dr. Faith Hopp</td>
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<td>10-10:30 a.m.</td>
<td>Responsible authorship and publication</td>
<td>Drs. Krista Brumley and Caroline Maun</td>
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<td>10:30-11 a.m.</td>
<td>Research misconduct and policies for handling misconduct</td>
<td>Dr. Ken Massey</td>
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<tr>
<td>11-11:30 a.m.</td>
<td>Conflict of interest</td>
<td>Dr. Graham Parker</td>
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<td>11:30-11:45 a.m.</td>
<td>Extra discussion time/questions</td>
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<td>Noon-1 p.m.</td>
<td>Lunch</td>
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1-2 p.m. | **Concurrent session #1** for STEM disciplines: data acquisition and laboratory management, sharing and ownership | Dr. Sokol Todi
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1-2 p.m. | **Concurrent session #2** for Social and Behavioral Sciences and Humanities disciplines: IRB processes and paperwork | Drs. Fred Vultee and Moh Malek

**STAGE 3: Field 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 is required to provide advanced RCR training to students in their program; training should be specific to the department’s field of interest. Departments are responsible for the development and monitoring the content and delivery of Stage III training. It is suitable for Departments to utilize preexisting training materials already in place which they already used for student RCR instruction. The expectation is that this content delivery should be at least 1 hour in duration.

In addition, each mentor is responsible to initiate and maintain formal conversation with their student to further discuss the mentor’s expectations of the student and role in their RCR training. Expectation is that this discussion should be on a one on one basis and the initial discussion should last a minimum of 1 hour.

**Exemption Program:**

Students with Special Circumstances (e.g. Religious or Cultural Restrictions) who will not be able to participate in the Saturday course should contact the course directors for an exemption. This will involve viewing the September 7th lectures online and writing a summary of the individual lecture’s content to be sent to the course directors no later than October 7th, 2019. Exempt students are still required to complete stage 3 training within their college/department/mentor.

**Recording and Transcribing Lectures:**

The lecture material presented in this course will be distributed to the students for further review via Canvas.

**Assessment:**

Assessment of the content delivery will be divided into three parts. Stage 1: assessment of the CITI training content will be the successful completion of the online survey given after each topic. A passing grade of 80% in the test for each topic is required for migration into Stage 2. Stage 2: For those who attend the Saturday workshop, an individual survey link will be provided to each attendee to complete no later than a
week after the course has ended. Completion of the survey leads to a passing grade. Completion of stage 3 is assessed by the trainee’s Department 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 1600 David Adamany Undergraduate Library, phone: 313-577-1851 (Voice) / 577-3365 (TTD)."

**Grading policy:**
Students who complete Stages 1 and 2 of the course and successfully submit the survey at the end of the Saturday workshop will receive a Satisfactory or “PASS” associated with their transcripts.

**In the Event of Course Failure:**
Students who do not complete either Stage 1 or 2 the course will be required to complete the missing components in the next subsequent semester, and they will need to take an INCOMPLETE in the course for the current term. Students/Postdocs that PASS the course will receive a certificate of completion for their personal records. If you receive a FAIL grade, you will require to retake the entire course.
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. IDP) 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.