Graduate Program in Scholarship and Research Integrity  
College of Health and Human Development  
The Pennsylvania State University  
Academic Year 2012-13

Commencing academic year 2009-2010, all students entering any Masters or Doctoral program in the College of Health and Human Development (CHHD) will be required to undertake training in Scholarship and Research Integrity (SARI). CHHD offers graduate degrees in eight programs: Biobehavioral Health; Communication Sciences and Disorders; Health Policy and Administration; Hospitality Management; Human Development and Family Studies; Kinesiology; Nutritional Sciences; and Recreation, Park, and Tourism Management. In addition, the College participates in three intercollege graduate programs: Genetics, Neuroscience and Physiology. The SARI requirement will be included in online descriptions of all CHHD graduate programs and described to new student recruits during orientation. The SARI program in CHHD will couple disciplinary breadth with maximum flexibility in order to accommodate the broad range of scholarship and student interests found within our departments and centers. It will consist of three complementary components: 1) a university component consisting of an online program offered through the Office of Research Protections (ORP), 2) a CHHD component consisting of a series of interactive sessions aimed at the timely exploration of universal issues related to the responsible conduct of research, and 3) a departmental component consisting of approved content in discipline-specific research ethics and integrity. Consistent with University guidelines, all students will complete a minimum of ten (10) hours of SARI training, one-half (5 hours) of which must include the online university component taken in the first year of graduate study. The remaining five hours may be customized and distributed within the university-wide, college-wide or departmental offerings as determined by each student in consultation with his or her advisor. Doctoral students must meet the entire ten-hour minimum requirement prior to taking their candidacy examination while Master’s students must fulfill the requirement in order to graduate.

University Component

The SARI Resource Portal (http://www.research.psu.edu/orp/sari/) offered by the Office of Research Protections provides access to the required online training program specifically designed for Penn State by the Collaborative Institutional Training Initiative (CITI: www.citiprogram.org). Information, teaching tools, and links to other resources to support SARI program activities are also provided. The CITI program currently offers Responsible Conduct of Research (RCR) courses in four domains: the Biomedical Sciences, the Social and Behavioral Sciences, the Physical Sciences and Engineering, and Humanities. Students must select at least one of these four courses (or other courses as they become available) in accordance with their chosen field of study. Students should forward a copy of the certificate indicating that they successfully completed a CITI course to their graduate administrative support person for record-keeping purposes. Students may also earn up to two hours of SARI credit from ORP sponsored RCR workshops and seminars toward the ten hour requirement.
Health and Human Development Component

CHHD will offer three 100 minute RCR workshops per academic year, two during fall semester and a third during the spring term. Each workshop will be in the evening, beginning with a light meal or finger foods at 5:00 pm and then followed by an interactive, discussion-based session to run between 5:20 until 7:00 pm. Workshops will be open to all CHHD graduate students and will be announced college-wide approximately one month prior to the scheduled date. Attendance will be recorded using college forms specifically designed for SARI documentation. The form will specify the workshop attended, the total hours and dates of delivery of delivery and the signatures of student and course instructor to verify delivery and attendance.

The college component of the SARI program will focus on more universal issues related to ethical scholarship and the responsible pursuit of research irrespective of discipline. A non-comprehensive list of potential topics is provided below.

- Acquisition, management, sharing, and ownership of data
- Publication practices and responsible authorship
- Conflict of interest and commitment
- Research misconduct
- Peer review
- Mentor/trainee responsibilities
- Collaborative science
- Human subjects protections
- Animal welfare

Workshops will be delivered by instructors trained by ORP staff in the effective delivery of RCR educational materials. Two to three trained instructors will direct each workshop. The typical format will include short introductory lectures and/or case study presentations with heavy doses of Socratic questioning, explorative breakout sessions either with the entire class, in small groups or in pairs and a final closing session to summarize findings and opinions.

Departmental Component

The departmentally delivered component of the CHHD SARI program is intended to provide RCR instruction aimed at specific academic disciplines and/or domains of research. This component takes advantage of course content and program requirements already in existence in some HHD graduate programs. It is expected new qualified courses will be added as they are developed. To qualify for SARI credit hours, a course must explicitly include RCR material in its content as reflected by the course syllabus. The number of hours devoted to RCR instruction must also be explicitly stated. Students wishing to use SARI approved course content to satisfy their SARI requirement will at the time of instruction procure, complete, and return a brief college form from the departmental graduate administrator. The form, the same as that used for college-wide workshops, will specify the course in question, the total hours and dates of RCR content delivery and the signatures of student and course instructor to verify delivery and attendance. The balance of college versus departmental SARI
training will vary across academic units and individual students. In some college departments the amount of available RCR instruction will preclude the need for some students to attend college workshops. In other college departments, all students will be required to attend at least three college workshops due to the complete absence of departmental RCR training. Our long term goal is to more formally implement at least two hours of discipline-specific SARI training in all eight of our academic units. The following departmental graduate course offerings have been approved for use in the CHHD SARI program.

- **Department of Biobehavioral Health**

  Course #: IBIOS 597D    Credit hours devoted to RCR:  5

  Course name: *Professional Development and Responsible Conduct in Science*

  Instructor(s) of record: B. C. Jones

  Frequency of offering: Once per academic year, spring semester.

  RCR content as described in syllabus:

  An additional dimension of the course concerns responsible and ethical conduct in science. Our approach is to discuss such issues within the context of particular topics: for example, questions of authorship are raised when we discuss manuscript preparation. The ethical issues included in this course will complement the topics covered in the course on Ethics in Life Sciences (IBIOS 591). The course is designed as a discussion course led by Dr. Jones. Practical exercises in writing, reviewing, and oral presentation will be included.

- **Department of Communication Sciences and Disorders**

  Course #: CSD 500    Credit hours devoted to RCR:  3 hours

  Course name: *Research Methods in Communication Sciences and Disorders*

  Instructor(s) of record: Carol Miller

  Frequency of offering: Once per academic year

  RCR content as described in syllabus:

  “Ethical conduct of research” covers informed consent, voluntary participation, confidentiality, etc. “Authorship and citing” covers ethical issues related to writing and publication. In addition, students are required to address ethical considerations in two of their major assignments: they
must prepare research proposals as teams, and one point in the rubric is to discuss ethical issues and protections; and they also must critique other teams' proposals, including how each team has handled the ethical issues. The instructor places the entire class in the context of evidence-based practice, and emphasizes to the students that EBP is an ethical issue.

- Department of Health Policy and Administration

  Course #: HPA 835  
  Credit hours devoted to RCR: 1 hour
  
  Course name: Healthcare Financial Management
  
  Instructor(s) of record: Joe Dionisio
  
  Frequency of offering: Spring Semester
  
  RCR content as described in syllabus:

  HPA 835 is a course specifically for MHA students. Weeks 4 and 10 have 30-minute ethics discussion based on case studies. Week 4 discusses ‘Uninsured charges and collections’ while week 10 involves discussion of ‘Payment for referrals’.

- School of Hospitality Management

  No courses that include RCR content at this time.

- Department of Human Development and Family Studies

  Course #: HDFS 515  
  Credit hours devoted to RCR: >10
  
  Course name: Professional Development Seminar
  
  Instructor(s) of record: Eggebeen
  
  Frequency of offering: Once per academic year; required of all 2nd year graduate students.
  
  RCR content as described in syllabus:

  To present and discuss issues pertinent to professional development, geared particularly to research in Human Development and Family Studies. Issues will include discussions of the ethical treatment of human subjects in research, working with offices of research protection and Internal Review Boards, professional and ethical issues pertaining to collaboration and authorship, research misconduct, publishing and the peer review process, grant writing, ethical and contractual obligations.
pertaining to teaching and mentoring, and going on the job market. Other topics that may be relevant or important to the class will also, to whatever extent possible, be incorporated.

- Department of Kinesiology

  Course #: IBIOS 591 Credit hours devoted to RCR: 5 hours

  Course name: *Ethics in the Life Sciences*

  Instructor(s) of record: John Hanold

  Frequency of offering: Fall and Spring Semesters

  RCR content as described in syllabus:

  - Animal Subjects
  - Human Subjects/Participants
  - Research Misconduct, Research Security, Governmental “Meddling”
  - Mentor-Student Relationships, Whistleblowing, Challenges of Collaborative Research
  - Authorship and Peer Review
  - Diversity in the Sciences

  Course #: KINES 588 Credit hours devoted to RCR: 2 hours

  Course name: *Scientific Writing in Kinesiology*

  Instructor(s) of record: W. Larry Kenney

  Frequency of offering: Usually once per year, typically in the fall

  RCR content as described in syllabus: Topics include mentoring; ethics, authorship, and scientific publications; human subjects and IRB interactions.

  Course #: KINES 590 Credit hours devoted to RCR: 3 hours

  Course name: *Kinesiology Colloquium*

  Instructor(s) of record: John Challis

  Frequency of offering: Fall and Spring Semesters

  RCR content as described in syllabus: The Graduate School has mandated that all graduate students have SARI training. The training will consist of at least 10 hours of instruction. Relevant topics include, but are not limited to, the acquisition, management, sharing, and ownership of
data; publication practices and responsible authorship; conflict of interest and commitment; research misconduct; collaborative science; and human subjects protections. At least two colloquium sessions each semester (180 minutes) will be devoted to SARI training. Of course while SARI training is important it should be appreciated the emerging scholars should continue throughout their academic careers to keep appraised of issues related to scholarship and research integrity.

- Department of Nutritional Sciences

Course #: NUTRN 520  Credit hours devoted to RCR: 2 hours

Course name: Readings in Nutrition

Instructor(s) of record: B. Rolls

Frequency of offering: SARI credit for Spring Semester

RCR content as described in syllabus:

Purpose of course: The purposes of this course include:

1. To expose students to the depth and breadth of nutrition as a field of inquiry.
2. To nurture students' appreciation and understanding of research design, statistics, and research methodology.
3. To develop critical thinking and the analytic skills necessary to examine and appraise the nutrition research literature.
4. To provide students with the opportunity to learn effective presentation techniques (via both observation and personal experience).
5. To give students practice at delivering a professional seminar.
6. To provide all participants an opportunity to share their expertise and to question and discuss different perspectives relevant to current issues.
7. To provide an overview of the ethical issues encountered by research scientists in conducting research, analyzing data, and publishing study results (presented spring semester).

- Department of Recreation, Park and Tourism Management

No courses that include RCR content at this time.

Documentation

The professors in charge of graduate education in each of our eight academic units are responsible for proper documentation, oversight and system compliance. Records documenting student participation will be maintained by departmental graduate education administrative assistants. Beginning fall 2009 each student record/progress
checklist will include the ten hour SARI requirement. Students should deliver a copy of the online CITI course and/or university RCR seminar documentation to their program administrator for record-keeping purposes. Signed forms for verifying attendance at college-wide workshops will be distributed to the departmental homes of those students attending to be entered into student records. SARI hours from approved departmental coursework will be documented internally using the same form. Academic units should submit tracking forms (via Angel) to ORP each year no later than June 15.

Approved January 20, 2009
Revised December 23, 2009 (addition of NUTRN 520)
Revised August 23, 2010 (addition of IBIOS 591)
Revised October 25, 2010 (addition of KINES 590)
Revised November 29, 2010 (addition of KINES 588, update University requirements and documentation)
Revised September 6, 2011 (removal of HPA 511)
Revised September 20, 2012 (approved 2/27/12) (addition of HPA 835 for MHA students)