**Responsible Conduct of Research Training Syllabus for Postdoctoral Scholars**

**Spring Semester 2019**

*Training to guide postdoctoral fellows and junior faculty in mentoring others on the ethics and responsibilities of conducting research*

Fridays, 11:30am-1:30pm

March 15th through April 26th, 2019

ECU Health Sciences Campus

Location: Laupus Library

**RCR PROGRAM CONTACTS:**

Deb Elek, MSEd, CIP Director, Office of Research Integrity and Compliance

Robert Haberstroh, MA University Program Associate, Conflicts of Interest

# **PARTICIPATING INSTRUCTORS:**

Cecile Baccanale, DVM Clinical Associate Professor, Department of Comparative Medicine

Kent Briley, MSW Director, IRB Post-approval Monitoring

Gaelle Deshayes, PhD Lab Safety Specialist, Environmental Health & Safety

Daniel Gregory, EAR/ITAR (ECoP®) Export Control Specialist, REDE

Robert Haberstroh, MA Conflicts of Interest Analyst, Office of Research Integrity and Compliance

Greg Hassler, PhD, JD Teaching Assistant Professor, Bioethics

Joseph Houmard, PhD Professor, Department of Kinesiology

Darrell Neufer, PhD Professor, Department of Physiology

Dorcas O’Rourke, DVM Department Chair, Department of Comparative Medicine

Russ Price, PhD Associate Dean, Research and Graduate Studies, BSOM

Carlyle Rogers, PhD Licensing Associate, Licensing & Commercialization

Samuel Sears, PhD Professor, Department of Psychology and COI Committee Chair

Kerry Sewell, MSLS Research Assistant Professor, Laupus Library

Kelly Shook, MS, AOES Health Sciences Coordinator, Environmental Health & Safety

Suzanne Sparrow, MPH Director, Human Subject Protection Program

Marti Van Scott Director, Licensing & Commercialization, Innovation & New Ventures

William Joseph Thomas, MSLS, MA Assistant Director for Research and Scholarly Communication

Justin Yeaman, MA Director of Learning & Organizational Development

# **DESCRIPTION:**

This training is designed for postdoctoral fellows and junior faculty who are recipients of NIH, NSF, or other training awards that require training in Responsible Conduct of Research. The training will cover the principles and expectations for conducting research ethically and guide participants in teaching others for whom they are responsible. Each session will be led by ECU subject matter experts in each of the RCR core areas, plus a selection of elective trainings.

# **Pre-Session Reading**

This training places a heavy emphasis on in-class discussion and the content area instructor may require participants to complete light pre-session reading in preparation for class discussion.

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# **Attendance**

Attendance is expected at eight of thirteen sessions to receive credit for completion. Attendance at the following sessions is mandatory and are marked with an asterisk (\*) below: Research Misconduct; Data Acquisition, Management, Sharing & Ownership; Mentor/Trainee Relationship; Publication Practices and Responsible Authorship, Peer Review; Collaborative Science; and Risk Mitigation in Research Facilities

**All requirements must be met to receive a course certificate.**

# **WEEKLY SCHEDULE:**

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| ***Date & Time*** | ***Session & Description*** | ***Instructor*** | ***Room*** |
| ***March 15***  ***11:30-12:30*** | ***\*Research Misconduct*** *– Policies and Responses to Suspected Research Misconduct • Identifying lines between misconduct, irresponsible conduct, and expected normative practices • ECU policies and resources • What to do if you suspect misconduct or someone comes to YOU with concerns* | *.*  *Greg Hassler* | *Laupus*  *1504* |
| ***March 15***  ***12:30-1:30*** | ***\*Data Acquisition, Management, Sharing, and Ownership & Reproducible Research*** *– Expected practices and policies of journals, sponsors, and institutions • Tools for reproducibility in research* | *Joseph Thomas*  *Kerry Sewell* | *Laupus*  *1504* |
| ***March 22***  ***11:30-12:30*** | ***\*Mentor-Mentee Relationships -*** *Core principles of teaching and learning through mentors • Responsibilities when mentoring others • Helping others deal with the lack of consensus across the community on some practices • Individual Development Plans • Clarifying expectations* | *Joe Houmard* | *Laupus*  *1504* |
| ***March 22***  ***12:30-1:30*** | ***\*Peer Review*** *– What really are the instructions and expectations for journal and NIH peer reviewers? • Inclusion of graduate students and postdocs in peer review processes • Teaching others the high bar for respect of intellectual property revealed to peer reviewers* | *Russ Price* | *Laupus*  *1504* |
| ***March 29***  ***11:30-12:30*** | ***\*Collaborative Science*** *– New issues arising as research becomes much more of a ‘team sport’ • As a mentor, guiding others working across research groups and differing research practices • Prospectively addressing possible issues BEFORE they arise • International collaborations – similarities and potential differences* | *Darrell Neufer* | *Laupus*  *1504* |
| ***March 29***  ***12:30-1:30*** | ***\*Publication Practices and Responsible Authorship*** *– The range of norms, beliefs and practices among scientists and disciplines on assignment of credit through authorship and acknowledgements • Journal practices requiring explicit statements of contributions of authors • Establishing and communicating your criteria and process for determining authorship* | *Darrell Neufer* | *Laupus*  *1504* |
| ***April 5***  ***11:30-1:30*** | ***Research Involving Vertebrate Animals*** *– Going beyond the web-based training to real-life considerations of using animals in research • Practical applications for seeking approval to use animals in your research • Supervising and training others to work with animals in research* | *Dorcas O’Rourke*  *Cecile Baccanale* | *Laupus*  *1517* |

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| ***April 5***  ***11:30-12:30*** | ***Research Involving Human Subjects and Materials*** *– Beyond the basics to reality • Balancing potential conflicts between protecting subjects and accomplishing vital research* | *Suzanne Sparrow*  *Kent Briley* | *Laupus*  *1504* |
| ***April 5*** | ***Difficult Conversations: How to Discuss What Matters Most –*** *Navigating the research environment • Norms and assumptions •*  *Using diplomacy when conversations turn towards difficult or sensitive topics • Tools for effectively engaging in a difficult*  *conversation* |  |  |
| ***12:30-1:30*** | *Justin Yeaman* | *Laupus*  *3503* |
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| ***April 12***  ***11:30-12:30*** | ***Export Controls and Customs –*** *Export control basics • How export controls affect universities • When customs requirements apply • Asking for assistance* | *Daniel Gregory* | *Laupus*  *2502G* |
| ***April 12***  ***11:30-12:30*** | ***Conflicts of Interest – Recognizing, Acknowledging, Managing, Eliminating -*** *Avoiding unconscious and subtle unintended bias • Federal and ECU policies and practices with respect to financial conflicts of interests • Institutional COI • Risks of non-financial COIs* | *Samuel Sears*  *Robert Haberstroh* | *Laupus*  *1504* |
| ***April 12***  ***12:30-1:30*** | ***Intellectual Property and Commercialization*** *– Role of the Office of Technology Transfer • Balancing traditional research outcomes with the university’s obligation to pursue intellectual property protection and commercialization opportunities from products derived from research and scholarship.  The two missions are not mutually exclusive.* | *Marti Van Scott*  *Carlyle Rogers* | *Laupus*  *2502G* |
| ***April 26***  ***11:30-1:00*** | ***\*Risk Mitigation in Research Facilities*** *– Unique variety of hazards associated with research labs • Management of challenging emerging risks in research laboratories • Hazard mitigation tools* | *Kelly Shook*  *Gaelle Deshayes* | *Laupus*  *1504* |