

# Taking Responsibility for Responsible Conduct of Research

*A course to guide postdoctoral fellows and junior faculty in mentoring others looking to them for guidance on the ethics and responsibilities of conducting biomedical research*

*Wednesdays, 3:30-5:00 p.m.*

*September 20th through December 6th, 2017 (subject to change)*

*Northwestern University Chicago Campus*

*Wieboldt Hall • Room 408 • 339 E. Chicago (alternate entrance available on Superior)*

## COURSE CO-DIRECTORS:

<a href="#">Brian Hitsman, PhD:</a>	Associate Professor of Preventive Medicine & Psychiatry and Behavioral Sciences
<a href="#">Rick McGee, PhD:</a>	Professor of Medical Education, Associate Dean for Professional Development

## OTHER PARTICIPATING INSTRUCTORS:

Charlette Cain, DVM:	Senior Clinical Veterinarian and Research Assistant Professor
Kate Booth:	Senior Compliance Specialist, Office of Conflict of Interest
Mandy Kozlowski:	PAM Coordinator of Animal Care and Use Committee
Michael Moore, PhD:	Invention Manager, NU Innovation and New Ventures Office
Lauran Qualkenbush:	Director, Northwestern University Office for Research Integrity
Maureen B. Moran:	Assistant Professor, Preventive Medicine
Maureen E. Smith, MS:	Assistant Professor, NUCATS and Center for Genetic Medicine
Shad Thaxton, MD, PhD:	Assistant Professor, Dept. of Urology; Co-founder of AuraSense
Leah Welty, PhD:	Associate Professor, Preventive Medicine & Psychiatry and Behavioral Sciences
Fruma Yehiely, PhD:	Associate VP for Research, Office of Research Development Co-Course Director of Team Science

## DESCRIPTION:

This course has been created for postdoctoral fellows and junior faculty who are recipients of NIH or other training awards that require training in Responsible Conduct of Research. The course will cover the principles and expectations for conducting biomedical research ethically and responsibly, but will go one step farther to guide participants in teaching others for whom they are responsible. Each session will be led by one of the course directors and/or guest instructors.

## REQUIREMENTS:

### [Mentor Discussion and Reflection](#)

Each participant is required to have a one-on-one discussion with their mentor or advisor about at least two of the topics covered in this course. Following the discussion, each participant must submit a reflection paper about the conversation.

### [Pre-Session, Online Modules](#)

This course places a heavy emphasis on in-class discussion. To optimize class time for this, five of the course topics (Research Misconduct; Conflicts of Interests; Research with Human Subjects and Materials; Research

with Animals; Collaborative Science) include an online module that must be viewed prior to class. Completion of the modules includes submission of their accompanying evaluation.

### Pre-Session Questionnaire

Course topics that do not include a pre-session module will require a completion of a short pre-session questionnaire. These questionnaires will assist presenters in gauging current knowledge, discovering questions around the topic and guiding the conversation in class.

### Attendance

Attendance is expected at every session. Up to two class days may be missed provided that all class materials (pre-session modules, pre-session surveys, presentation slide-decks and audio recording) are reviewed. Absences exceeding two days will require notification of, and approval by, the course directors.

**All aforementioned requirements must be met in order to receive a course certificate. Topics in this series are required by the NIH.**

### WEEKLY SCHEDULE:

Date, Time & Room	Session & Description	Instructor	Pre-Session Assignments
<b>September 20</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Research Misconduct</b> – Policies and Responses to Suspected Misconduct • Identifying lines between misconduct, irresponsible conduct, and expected normative practices • Northwestern policies and resources • What to do if you suspect misbehavior or someone comes to YOU with concerns	L. Qualkenbush	<b>Module &amp; Evaluation: Research Misconduct</b> <b>L. Qualkenbush</b>
<b>September 27</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Conflicts of Interest</b> – Recognizing, Acknowledging, Managing, Eliminating • Getting beyond naïveté in the ability to avoid unconscious and subtle unintended bias • Federal and Northwestern policies and practices with respect to financial conflicts of interests • Institutional COI • Risks of non-financial COI such as professional and commitment	B. Hitsman K. Booth	<b>Module &amp; Evaluation: Financial Conflict of Interest</b> <b>J. Campbell</b>
<b>October 4</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Publication Practices and Responsible Authorship</b> – 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	B. Hitsman	<b>Questionnaire</b>
<b>October 11</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Research with Human Subjects and Materials</b> – Beyond the basics to reality • Balancing potential conflicts between protecting subjects and accomplishing vital research	M. Moran and M. Smith	<b>Modules &amp; Evaluations: Human Subjects Protections</b> <b>E. Yates</b>  <b>Research with Genetic Material</b> <b>M. Smith</b>

<b>October 18</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Peer Review</b> – 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	B. Hitsman	<b>Questionnaire</b>
<b>October 25</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Mentoring</b> – 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	R. McGee	<b>Questionnaire</b>
<b>November 1</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Research with Animals</b> – 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	C. Cain and J. Dunlap	<b>Module &amp; Evaluation: Using Animals in Biomedical Research</b> <b>M. Kozlowski</b>
<b>November 8</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Intellectual Property and Commercialization</b> – Role of the university tech transfer office • The institution’s challenge to balance commercial opportunity and its traditional teaching/research mission	M. Moore and S. Thaxton	<b>Questionnaire</b>
<b>November 15</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Data Acquisition, Management, Sharing, and Ownership &amp; Reproducible Research</b> – Expected practices and policies of journals, sponsors, and institutions • Tools for reproducibility in research	B. Hitsman and L. Welty	<b>Questionnaire</b>
<b>November 22</b>	<b>NO CLASS</b>	<b>NO CLASS</b>	
<b>November 29</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Collaborative Science</b> – 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	F. Yehiely	<b>Module &amp; Evaluation: Collaborative Science Module</b>  <b>Collaborative Science Cases</b>
<b>December 6</b> <b>3:30-5:00</b> <b>Wieboldt 408</b>	<b>Case Studies</b> – Analysis and discussion of selected recent high profile misconduct cases	B. Hitsman	<b>Questionnaire</b>