

Research Integrity course for graduate students at Worcester Polytechnic Institute, Worcester, MA
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[Online links were functional as of Spring 2012.]

GENERAL ONLINE RESOURCES:

On Being a Scientist: Responsible Conduct in Research, Second Edition

http://www.nap.edu/openbook.php?record_id=4917&page=1

The ten most important things to know about research ethics

<http://mypage.iu.edu/~pimple/10most.pdf>

Avoiding plagiarism, self-plagiarism, and other questionable writing practices: A guide to ethical writing

<http://ori.hhs.gov/education/products/plagiarism/plagiarism.pdf>

Tools to help you avoid plagiarism

<http://ori.hhs.gov/tools/plagiarism.shtml>

Committee on Publication Ethics (COPE): Guidelines

<http://publicationethics.org/resources/guidelines>

Office of Research Integrity (NIH)

<http://ori.hhs.gov/>

NIH Policies on Research Misconduct; Final 42 CFR Parts 50 and 93;

http://ori.hhs.gov/documents/42_cfr_parts_50_and_93_2005.pdf

Date	Topic	Assignments & Discussion Leader (students sign up during 1 st class)
1/18	Introduction and overview of course objectives and operation	Prof. Weathers
1/25	Plagiarism...different folks, different strokes, but striving towards uniformity.	Student discussion leader: http://www.sciencemag.org/cgi/reprint/324/5930/1004.pdf http://www.sciencemag.org/cgi/reprint/325/5942/813-c.pdf
2/1	Authorship and publication	Student discussion leader: Interview your Advisor and return with his/her approach for establishing authorship inclusion and sequence. http://www.nature.com/nature/journal/v450/n7166/pdf/450001a.pdf http://www.nature.com/nature/journal/v450/n7170/pdf/450610a.pdf
2/8	Copyright: easy to do...but difficult to protect.	Student discussion leader: http://www.wpi.edu/offices/policies/copyright.html
2/15	Collaborative Research: Avoiding pitfalls and sharing credit	Student discussion leader: Interview your Advisor so you can discuss his/her types of research collaborations http://mypage.iu.edu/~pimple/collaborative_research_2005.pdf
2/22	Mentor/Mentee Relationships Rights and responsibilities	Student discussion leader: What beneficial strategies have been employed by your mentor? Once you become a mentor, what would you alter vs. your mentor's approach? http://books.nap.edu/openbook.php?record_id=5789&page=1
2/29	COI: Conflict of Interest	Student discussion leader: What conflicts might you have in your research as student? http://www.wpi.edu/offices/policies/conflict.html
3/7	NO CLASS – break week	
3/14	Peer-review: a professional responsibility & expected confidentiality	Student discussion leader: How does peer review of manuscripts differ from that of proposals? http://www.sciencemag.org/cgi/reprint/319/5859/32b.pdf http://publicationethics.org/static/1999/1999pdf13.pdf
3/21	Intellectual Property	Student discussion leader: What are your rights as student regarding intellectual property? http://www.wpi.edu/about/policies/intell.html
3/28	Agent orange – A case of unintended consequences (dual use) Case study of righting a misuse – Arthur Galston (deceased 2009)	Student discussion leader: http://www.sciencemag.org/cgi/reprint/326/5957/1193.pdf http://en.wikipedia.org/wiki/Agent_Orange http://ysm.research.yale.edu/article.jsp?articleID=48
4/4	Research Data in the Digital Age – appropriate collection & maintenance of research data.	Student discussion leader: http://www.sciencemag.org/cgi/reprint/325/5939/368.pdf http://www.sciencemag.org/cgi/reprint/325/5939/381.pdf http://www.nap.edu/catalog.php?record_id=12615 (the NAS report – free online)
4/11	Case study: Wu Suk Hwang (Korea)	Student discussion leader: Research this current case and report out to class.
4/18	Case study: Diederik Stapel (The Netherlands)	Student discussion leader: Research this current case and report out to class.
4/25	The sanctions against violators. On being a whistleblower...first be sure that you have your facts correct!	Student discussion leader: Choose 1-2 cases (listed in link below) by NIH and discuss sanctions; http://ori.hhs.gov/misconduct/cases/ How do you become a successful whistleblower? http://poynter.indiana.edu/see-ckg1.pdf NIH interactive activity! Coming soon....