



### RCR Certification:

When you have completed all of the required RCR modules, you will need to send an electronic copy (pdf or scanned jpg file) of your RCR certificate of completion to the designated staff person for your home department (Sharone Hall in Psychology and Human Development, Vay Welch in Psychology).

### Class Schedule:

- 8/30: Orientation to Psychological Sciences at Vanderbilt, Discussions of Graduate Mentorship  
*Continued discussion of the requirements for the PhD in Psychological Sciences. Open Q/A session on the program and Vanderbilt. Discussion of graduate mentorship in Psychological Sciences at Vanderbilt.*  
Guest Speaker: Craig Anne Heflinger, Associate Dean for Graduate Education, Peabody College  
ASSIGNMENTS:  
Read: "Introduction to the Responsible Conduct of Research" and "Advising and Mentoring" in *On Being a Scientist*  
Read: The Graduate Student Handbook (on the web)  
[http://www.vanderbilt.edu/psychological\\_sciences/doctoral/current/grad\\_student\\_handbook](http://www.vanderbilt.edu/psychological_sciences/doctoral/current/grad_student_handbook)  
RCR: Introduction to the RCR Course  
RCR: Mentor and Trainee Responsibility Course
- 9/6: Library Resources for Research (if you can, bring a laptop to class today)  
*An overview of the various resources for literature reviews and library research. Including a discussion of interlibrary loan, library services, PsycInfo, PubMed and Eskind's Digital Library, Web of Science, ERIC, and Google Scholar.*  
Guest Speaker: Amy Stewart-Mailhot, Bibliographer for Psychology, Vanderbilt Central Library  
ASSIGNMENT:  
Web: Explore the library web site at [www.library.vanderbilt.edu](http://www.library.vanderbilt.edu) before class
- 9/13: Applying for Fellowships and Grants  
*Introduction to relevant fellowships (especially those from NSF and NIH). All students will be required to complete a research proposal as part of this course. This proposal should reflect actual research you plan to work on in the coming years. Students who are eligible for NSF and/or NIH fellowships should complete their proposals using the format required for these applications (see for example <http://www.nsfgrfp.org/>). Other students should use those formats as a guide for their proposals. Note that some students may not be eligible to apply because they are not US citizens or because their research area does not qualify for NSF/NIH funding. In addition, your advisor will ultimately decide whether the fellowship application should or should not be submitted for consideration.*  
Guest Speaker: Bruce Compas and Jo-Anne Bachorowski  
ASSIGNMENT:  
Read: The guidelines for the NSF fellowships before class  
[http://www.nsfgrfp.org/how\\_to\\_apply/application\\_materials](http://www.nsfgrfp.org/how_to_apply/application_materials)

9/20: Research Ethics with Animal Subjects

*An introduction and discussion of the ethical standards for research with human and animal subjects. Discussion of some of the logistics of getting animal research approved at Vanderbilt.*

ASSIGNMENT:

Read: "Human Participants and Animal Subjects in Research" in *On Being a Scientist*

Guest Speaker: Vivien Casagrande

RCR: RCR for Animal Welfare

9/27: Research Ethics with Human Subjects

*A discussion of the ethical standards for research with human subjects.*

ASSIGNMENT:

Read: "Human Participants and Animal Subjects in Research" in *On Being a Scientist*

Read: *The Belmont Report* (<http://ohsr.od.nih.gov/guidelines/belmont.html>)

RCR: RCR for Human Subjects

ASSIGNMENT:

Case Studies To Be Assigned

10/4: Teaching and TAing

*A general discussion of the opportunities, challenges, and resources for teaching and TAing.*

Guest Speaker: Manya Whittaker, Center for Teaching

10/11: Writing, Publication, and the Peer Review Process

*We begin with a discussion of writing papers to submit for publication and how that is probably quite different from writing for classes. We will hear a brief presentation about the Writing Studio, a resource for graduate students struggling to get words onto paper. We then move on an overview of the publication and peer review process.*

Guest Speaker: Josh Houston, The Writing Studio

ASSIGNMENT:

Read: "Sharing of Research Results" in *On Being a Scientist*

Read: [\*Teaching Graduate Students How to Write Clearly\*](#), By Eric-Jan Wagenmakers, APS Observer.

RCR: Peer Review Course

Some Recommended Readings:

*Mastering APA Style: Students workbook and training guide*, 6<sup>th</sup> edition. APA

Hofmann, A.H. (2010). *Scientific writing and communication: Papers, proposals, and presentations*. Oxford University Press.

***Drafts of NSF Fellowships Due October 14***

10/18: Preliminary Panel on Fellowship Applications

*Small groups will review drafts of the research statements. Students who are going to apply for fellowships should also have drafts of any additional application materials (such as personal statements) completed by this time.*

ASSIGNMENT:

Come to class having read and commented on draft proposals

10/25: Scientific Ethics I

*A discussion of scientific ethics centered around case studies. Topics include data fabrication, plagiarism, scientific misconduct, professional misconduct, procedures for handling misconduct, proper citation, conflict of interest.*

ASSIGNMENT:

Read: "The Treatment of Data", "Mistakes and Negligence", "Research Misconduct", "Responding to Suspected Violations of Professional Standards", "Intellectual Property", "Competing Interests, Commitments, and Values" in *On Being A Scientist*  
Case Studies To Be Assigned

RCR: Research Misconduct Course

RCR: Data Acquisition, Management, Sharing and Ownership Course

11/1: Scientific Ethics II

*Continued discussion of scientific ethics centered around case studies. Topics include data fabrication, plagiarism, scientific misconduct, professional misconduct, procedures for handling misconduct, proper citation, conflict of interest.*

ASSIGNMENT:

Read: "The Treatment of Data", "Mistakes and Negligence", "Research Misconduct", "Responding to Suspected Violations of Professional Standards", "Intellectual Property", "Competing Interests, Commitments, and Values" in *On Being A Scientist*  
Case Studies To Be Assigned

RCR: Conflicts of Interest and Commitment Course

RCR: Collaborative Research Course

***NSF Fellowships usually due early November (check NSF guidelines for exact date)***

11/8: Your Vita, Authorship and Credit, Professional Development

*A varied discussion of topics like authorship and credit, publication practices, your curriculum vitae (CV), keeping an up-to-date web site, your "airplane speech" or how to tell your grandmother what you do and why it's important, the academic career track and other options, what you need to do to get a job or a fellowship after graduate school.*

ASSIGNMENT:

Read: "Authorship and the Allocation of Credit" in *On Being A Scientist*

If you already have a vita, bring a copy to class.

RCR: Publication Practices and Responsible Authorship Course

11/15: Student Presentations

*Students will give a 10-15 minute presentation about their first year research project. This can include pilot studies, a plan for studies, a literature review, or some combination of these.*

11/22: NO CLASS (THANKSGIVING BREAK)

11/29: Student Presentations  
*Continued.*

12/6: Student Presentations  
*Continued.*

12/13: Student Presentations (if needed)

## Additional Sources:

### Research Ethics with Humans

Tobias, J.S., & Souhami, R.L. (1993). Fully informed consent can be needlessly cruel. *British Medical Journal*, 307, 1199-1203.

Illes, J., et al. (2006). Incidental findings in brain imaging research. *Science*, 311, 783-784.

Eysenbach, G., & Till, J.E. (2001). Information in practice. *British Medical Journal*, 323, 1103-1105.

### Holmesburg Prison:

Hornblum, A.M. (1999). *Acres of skin: Human experiments at Holmesburg Prison*. Routledge Press.

### Tuskegee Syphilis Study:

Jones, J.H. (1993). *Bad blood: The Tuskegee syphilis experiment*. Free Press.

<http://www.cdc.gov/tuskegee/timeline.htm>

### Lecture on Neuroethics:

<http://mitworld.mit.edu/video/247/>

### Little Albert:

<http://htpprints.yorku.ca/archive/00000198/01/BHARRIS.HTM>

### Milgram Experiments:

<http://www.youtube.com/watch?v=y6GxIuljT3w>

[http://en.wikipedia.org/wiki/Milgram\\_experiment](http://en.wikipedia.org/wiki/Milgram_experiment)

### Stanford Prison Experiments:

<http://www.youtube.com/watch?v=1KXy8CLqgk4&feature=related>

<http://www.prisonexp.org/>

[http://en.wikipedia.org/wiki/Stanford\\_prison\\_experiment](http://en.wikipedia.org/wiki/Stanford_prison_experiment)

### Marc Hauser:

<http://www.nytimes.com/2010/08/14/education/14harvard.html?hp>

<http://www.nytimes.com/2010/08/21/education/21harvard.html?hp>

<http://chronicle.com/article/Document-Sheds-Light-on/123988/>

<http://chronicle.com/article/Dean-Confirms-Allegations-of/124085>

<http://www.nature.com/nature/journal/v466/n7310/full/4661023a.html>

<http://www.nytimes.com/2010/08/28/science/28harvard.html?hpw>