

A. Administrative Information

Time and Place: Wednesday 1:00 – 2:15; 473 Moore Hall

Prerequisites: Graduate standing or consent of the instructor

Credits: 1

Faculty:

- Robert Streiffer
 - rstreiffer@wisc.edu; 262-7490; 263-9479
 - 1411 Medical Sciences Center; 5123 Helen C. White;
 - Departments of Medical History and Bioethics, Philosophy, Agricultural and Applied Economics, and Veterinary Medical Sciences
 - Office Hours: Friday 2:00-3:00 in 1411 MSC, and by appointment
- Sara Patterson
 - spatters@wisc.edu; 262-1543
 - 486 Horticulture
 - Department of Horticulture
 - Office Hours: By appointment

Course Home Page:

<https://mywebspace.wisc.edu/rstreiffer/web/CourseFolders/MHB999S10/MHB999S10.html>

B. Learning Objectives

The purpose of this course is to help graduate students understand the policies regulating research at land grant universities (LGUs) and the ethical principles on which these policies are based. The course will fulfill its objectives if it provides students with the ability to explain:

1. The research mission of land grant universities
2. The ethical principles supporting research policies
 - (a) The ethical relevance of interests, harms, choices, customs, science, law, professional codes
 - (b) Different ethical frameworks and how they inform discussions of research ethics
3. The policies regulating research and relating to:
 - (a) The research mission of land grant universities
 - (b) Research misconduct, and appropriate responses, including whistle blowing
 - (c) Mentoring, and under-represented minorities and women in research
 - (d) The use of humans in research
 - (e) The use of animals in research
 - (f) Authorship and peer review
 - (g) Intellectual property and conflicts of interest
 - (h) Proper experimental design, data collection, and statistical interpretation

C. Materials

All readings and supplementary information will be made available online at

<https://mywebspace.wisc.edu/rstreiffer/web/CourseFolders/MHB999S10/MHB999S10.html>

D. Grading

S/U grading. Attendance is mandatory, and punctuality is encouraged. To receive a grade of satisfactory, the student must have no unexcused absences, complete all assignments on time and participate significantly in class discussions.

E. Assignments

Assignments will be given out in class and will include reading from the current literature, case studies, and homework to complete. If applicable, students must also complete #1 and #2.

1. Human subjects certification: Students using or likely to use humans in research must complete the UW tutorial and notify the instructor by email when they have finished it:
<https://my.gradsch.wisc.edu/citi>
2. Animal subjects certification: Students using or likely to use animals in research must complete the UW tutorial and notify the instructor by email when they have finished it:
<http://www.rarc.wisc.edu/training/cert.html>.

F. Useful Web Sites

- Home page for this course:
<https://mywebspace.wisc.edu/rstreiffer/web/CourseFolders/MHB999S10/MHB999S10.html>
- LANGURE Research Ethics Open Seminar: <http://openseminar.org/ethics/>
- LANGURE core course: chasss.ncsu.edu/ethics/langure/Corecourse.htm (not updated anymore)
- NC State Ethics Program: www.chasss.ncsu.edu/ethics
- UW's Responsible Conduct of Research (RCR) Website:
<http://www.grad.wisc.edu/research/compliance/rcr/index.html>
- Ethics Updates: ethics.sandiego.edu/index.html
- Ethics Center for Engineering & Science: [/onlineethics.org/reseth/index.html](http://onlineethics.org/reseth/index.html)

G. Schedule

1. 2/17 Streiffer: Introduction to Course; Introduction to Ethical Reasoning
No readings
2. 3/3 Coors: The Research Mission of Land Grant Universities
Comstock – Research at Land Grant Universities
3. 3/10 Streiffer : Professional Codes, Ethics, and Research Misconduct (I)
Your profession's code of ethics; Misconduct examples
4. 3/17 Patterson: Professional Codes, Ethics, and Research Misconduct (II)
Goodwin articles; CALS Whistleblowing Policy
5. 3/25 Streiffer; Human Subjects Research
Lederer – Laying Ethical Foundations for Clinical Research; Beecher – Ethics and Clinical Research
6. 4/7 Patterson: Student-Identified Issues in Labs and in the Professions
7. 4/14 Coors: Design and Statistical Interpretation
Cranor – Ethical Issues in Risk Analysis
8. 4/21 Patterson: Mentoring, Women, and Minorities
Alston-Mills – Mentoring; Women and Under-represented Minorities
9. 4/28 Streiffer: Intellectual Property and Conflicts of Interest
Shafer – Intellectual Property
10. 5/5 Patterson: Authorship and Peer Review
Wilson – Authorship and Peer Review; Rossner and Yamada – What's in a Picture

Schedule

	Topic	Readings	In Class Exercises	Homework (for subsequent class)	Lecture Notes/PPT	News & Student Suppl.
1	Introduction to Course	None	Case Studies from PPT	What does being at an LGU mean?; Research Ethics News Articles (2 by end of semester); Identify issues; Find Professional Code of Ethics	Introduction to LANGURE Introduction to Ethics	AP - Scientists Study Scientists Behaving Badly.pdf Levin - Pressure for Success Often Lures Researchers.pdf
2	The Research Mission of Land Grant Universities	Comstock - Research at Land Grant Universities.pdf		Misconduct examples; Locate Code of Ethics	Coors - Research at LGUs.ppt	Higher-Ed Org - First Morrill Act Bonnen - The Land Grant Idea and the Evolving Outreach University
3	Professional Codes, Ethics, and Research Misconduct (Part 1)	Misconduct examples; Code of Ethics	Discussion of Professional Codes Exercise - Life Science Plagiarism Handout	Read Goodwin articles listed for next week	03b_Codes, Ethics, Misconduct.ppt Life Sciences Plagiarism Key	
4	Professional Codes, Ethics, and Research Misconduct (Part 2)	Goodwin Readings (Updated) CALs Whistleblowing Policy	Discussion of Goodwin Case discussion of CALs Whistleblowing Policy	04_Homework Assignment	04c_Misconduct and Whistleblowing.ppt	Gunsalus - How to Blow the Whistle.pdf
5	Human Subjects Research	Lederer - Laying Ethical Foundations for Clinical Research (+ Beecher).pdf	What are the common themes among Beecher's examples? Of the examples, which was the most egregious and why? Which was the most defensible and why? Mock IRB review of Wisconsin CF Newborn Screening and	Statistics_Graphics_Exercise_Instructions Statistics - Graphics Handout	05c_Human_Subjects_Research.ppt	

			Early Treatment Study			
6	Student Identified Issues in Labs and in the Professions		In-Class Exercise for Student-Identified Issues			
7		Cranor - Ethical Issues in Risk Analysis	Discussion of graphics exercises		06_Exp_Deisgn_and_Stats	
8	Mentoring, Women, and Minorities	Alston-Mills - Mentoring; Women and Under-Represented Minorities	Case studies on mentoring issues		07_Mentoring.ppt	
9	Intellectual Property and Conflicts of Interest	Shaffer - Intellectual Property	Discussion of 4 recent IP and COI controversies	Locate authorship guidelines for a journal in your discipline	08_IP&COIs.ppt 08_IP at UW.ppt	WARF - Invention Disclosure Process Flowchart.pdf
10	Authorship and Peer Review	Wilson - Authorship and Peer Review.pdf Rossner and Yamada - What's In a Picture.pdf	Identify altered pictures			Pittsburgh - Schatten, Authorship and Peer Review.doc

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