

Syllabus

Chem 6890: Responsible Conduct of Research

Fall 2019

Lecture/Discussion Tuesday, Thursday 3:00 – 5:00 pm Langsdale 527

- 1. Instructor:** Suri S. Iyer, Professor, Department of Chemistry, Georgia State University, Atlanta, GA -30302.
- 2. Email:** siyer@gsu.edu. I respond to all emails, but please don't expect an instantaneous reply as I do not check my email constantly. Please email from your gsu account and not from icollege.
- 3. Office Hours:** PSC 389 or 788, by appointment. Please contact me if you need assistance on any aspects of the course.
- 4. Textbooks:**
1. Responsible Conduct of Research by Adil Shamoo and David Resnik, 3rd Edition (main textbook)
 2. The Ethical Chemist by Jeffrey Kovac
 3. Research Ethics: A Reader by Demi Elliott and Judy E. Stern (Eds)
 4. The Ethics of Science: An Introduction (Philosophical Issues in Science) by David Resnik

5. Course Objectives: The objective of this course is to discuss responsible conduct of research (RCR) in Chemistry. The emphasis will be on ethics of conducting research, data analysis, and conformance to federal and community guidelines in Chemistry related research. Successful completion of the course will satisfy federal guidelines for RCR training and documentation. **Class participation is a must.**

- 6. Grading:**
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|-------------------------------------|------------|
| 1. Final report | 200 points |
| 2. CITI online training | 200 points |
| 3. Assignments, class participation | 300 points |

Total Points **700 points**

7. Grading scale: A+ 95%; A 90% or above; A- 87%; B+ 84; B 80%; B- 77%; C 70%; C- 63%; D 55%; F<50%

- 8. Important Dates:**
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|--------------|--------------------------------|
| September 13 | Last day to withdraw. |
| October 5 | Final report due on this date. |

9. Class Preparation and attendance: Please attend all lectures and read the assigned pages **BEFORE** coming to class. You are responsible for the timely completion of all assignments.

10. Reinstatement policy: University rules insist that faculty give a **WF** who are on their rolls but are no longer attending the class at the midpoint of the course. We are also required to report the last day the student attended or turned in an assignment. Students are withdrawn may petition the Departmental Chair for reinstatement into their classes.

11. Disability policy: Students who require accommodation for a disability must provide a copy of a signed accommodation plan from the Office of Disability Services.

12. Student code of conduct: Please adhere to University policy on academic honesty.

13. Cell Phones must be turned off during lectures!

14. Tentative Schedule:

Week	Date	Topics	Reading assignments	Writing assignments before lecture begins
1	Aug 27	Introduction & discussion of ethics, morality and legal issues		N/A
1	Aug 29	CITI online training (Class will not meet)	Chapters 1,2	N/A
2	Sep 3	Misconduct in Research	Chapter 3,4	Written report: Cases 1, 2,5,7,9,10 (pages 54-59).
2	Sep 5	CITI online training (Class will not meet)	Chapter 3,4	N/A
3	Sep 10	CITI online Training(Class will not meet)	Chapter 5	N/A
3	Sep 12	Data Management	Chapter 6	Written report: Cases 1,2,4,7,8 (pages 78-84).
4	Sep 17	Mentoring	Chapter 7	Written report: Cases 1,2,3,7,8 (pages 92-95).
4	Sep 19	Collaborative Research	Chapter 8	Written report: Cases 1, 2,4,6 (pages 118-121).
5	Sep 24	Authorship/ peer review publication	Chapter 9	Written report: Cases 1,2,7 (pages132-136) and cases 6,10 (pages 164-170)
5	Sep 26	Conflicts of Interest/IP	Chapter 10	Written report: Cases 2,3 (pages 188-193) Cases 1,2,8 (pages 206-211).
6	Oct 1	Human Subjects/Animal Welfare (CITI training)	Chapter 11	
6	Oct 3	CITI training	Chapter 12-13	
7	Oct 5			Final report due.
Grades due on October 15				

All written reports and final reports: Maximum 12 pages, single spaced, Arial 11 font, 0.7 inch margins on all sides, **HARD COPY ONLY**. Written reports must be handed before the lectures begin.

Final report: Submit **HARD COPY** in person PSC 389 by October 5, 2019. Please define and discuss the following in the final report. 1.Fabrication 2.Falsification 3. Plagiarism 4. Conflict of Interest 5. Collaborative Research 6. Data Acquisition and Management 7. Publication/Authorship 8. Mentor Responsibilities and 9. Graduate student Responsibilities