Course Organization

1. Instructor
   Mark Arnold, 230 IATL, 335-1368, mark-arnold@uiowa.edu
   Office Hours: 10:00 – 12:00 pm Thursday or by appointment.

2. Departmental Office
   Department of Chemistry, E331 CB, 335-1350, Chair: Prof. Len MacGillivray

3. Course Web Site
   http://icon.uiowa.edu

4. Class Meetings
   Monday, Wednesday, Friday, 10:30 – 11:20 am, W55 CB

5. Prerequisites
   Completion of the Collaborative Institutional Training Initiative (CITI) online modules is a prerequisite for this course. These modules can be accessed through this link: http://www.grad.uiowa.edu/principles-of-scholarly-integrity/approved-courses. Proof of completion of the Responsible Conduct of Research modules will be required by February 1.

6. Reading Assignments
   No textbook is required for the course. Selected readings will be assigned and posted on the course web site.

7. Course Overview
   The objective of this course is to discuss the principles of ethics in chemical sciences. The graduate and post-doctoral students enrolled in this course will be trained on scholarly integrity for being a responsible chemist as they engage in research at the University of Iowa. The infrastructure of scientific scholarship is introduced with an emphasis on interacting with peers, funding agencies, and industrial entities. Responsible conduct in research will be discussed in the context of creation of knowledge, dissemination of scientific findings, intellectual property, and conflict of interest. Workshops will be conducted to study cases in chemical research to illustrate the principles of scholarly integrity.
8. **Course Topics**

   - Data Acquisition, Management, Sharing, and Ownership
   - Mentor/Trainee Responsibilities
   - Publication Practices and Responsible Authorship
   - Peer Review
   - Conflict of Interest / Conflict of Commitment
   - Collaborative Science
   - Human Subjects
   - Animal Welfare
   - Research Misconduct

9. **Summary of Course Requirements and Grading**

   The course will be graded as satisfactory/unsatisfactory (S/U) based on class attendance and participation, quizzes given as part of presentations by outside speakers, and a final quiz.

10. **Course structure**

    The course will be conducted during the first third of the Spring semester. Topics will be covered through a combination of lecture material, examination of case studies, and group discussion. Guest lecturers will be invited to speak on specific topics in which they have particular expertise. Some topics will have reading assignments provided before the corresponding class in which the material is presented. Some topics may have announced quizzes associated with them to encourage student preparation.

    Student attendance will be taken and class participation is required. Students must attend and participate in all class periods unless the absence is excused. Examples of excused absences include those due to illness, mandatory religious obligations, official University activities, or unavoidable circumstances. Documentation must be provided to the instructor to support the reason for the absence. Students must meet all course requirements, in particular meet the mandate set by the Office of the Vice President for Research.

11. **Final Quiz**

    A quiz consisting of multiple-choice questions will be administered at the last class meeting. Questions will be drawn from the lecture presentations made by the instructor and guest speakers. Successful completion of the quiz requires a score of 80%. Students scoring less than 80% will be required to perform a remediation assignment in order to obtain a grade of satisfactory for the course.
College of Liberal Arts and Sciences Policies*

Administrative Home

The College of Liberal Arts and Sciences is the administrative home of this course and governs its add/drop deadlines, the second-grade-only option, and other policies. These policies vary by college (http://clas.uiowa.edu/students/handbook).

Electronic Communication

Students are responsible for official correspondences sent to their UI email address (uiowa.edu) and must use this address for all communication within UI (Operations Manual, III.15.2).

Accommodations for Disabilities

UI is committed to an educational experience that is accessible to all students. A student may request academic accommodations for a disability (such as mental health, attention, learning, vision, and physical or health-related condition) by registering with Student Disability Services (SDS). The student should then discuss accommodations with the course instructor. (http://sds.studentlife.uiowa.edu/).

Nondiscrimination in the Classroom

UI is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their instructors and classmates. The University of Iowa prohibits discrimination and harassment against individuals on the basis of race, class, gender, sexual orientation, national origin, and other identity categories set forth in the University's Human Rights policy. For more information, contact the Office of Equal Opportunity and Diversity at diversity@uiowa.edu or diversity.uiowa.edu.

Academic Integrity

All undergraduates enrolled in courses offered by CLAS have, in essence, agreed to the College's Code of Academic Honesty. Misconduct is reported to the College, resulting in suspension or other sanctions, with sanctions communicated with the student through the UI email address.

CLAS Final Examination Policies

The final exam schedule for each semester is announced around the fifth week of classes; students are responsible for knowing the date, time, and place of a final exam. Students should not make travel plans until knowing this final exam information. No exams of any kind are allowed the week before finals. (https://clas.uiowa.edu/faculty/teaching-policies-resources-examination-policies.)

Making a Complaint
Students with a complaint should first visit with the instructor or course supervisor and then with the departmental executive officer (DEO), also known as the Chair. Students may then bring the concern to CLAS (https://clas.uiowa.edu/students/handbook/student-rights-responsibilities).

Chemistry DEO: Len MacGillivray, E331 CB, 335-1350

**Understanding Sexual Harassment**

Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community must uphold the UI mission and contribute to a safe environment that enhances learning. Incidents of sexual harassment must be reported immediately. For assistance, definitions, and the full University policy, see https://osmrc.uiowa.edu/.

*These CLAS policy and procedural statements have been summarized from the web pages of the College of Liberal Arts and Sciences and The University of Iowa Operations Manual.*
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Meeting time and location: 10:30 – 11:20 in W55 CB