



CHEM-607 LABORATORY SAFETY

1 CR graded CR/NC

Canvas Course URL: <https://canvas.wisc.edu/courses/76145>

Dr. Robert McClain robert.mcclain@wisc.edu **262-5615**

Room 2330 Chemistry **available by appt.**

Course Designations and Attributes

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement.

Course description

Aspects of laboratory safety relating to chemical, electrical, optical, mechanical, cryogenic and radiological hazards will be discussed. Safety equipment, techniques, and facilities will be introduced.

Requisites [CHEM 346](#) or cons inst.

Course Expectations

The course consists of a series of presentations covering laboratory safety in UW Chemistry research laboratories. In addition to the presentations, there are three class assignments to be handed in on-line. Students should expect to spend ~45 hours attending the presentations and doing the assignments. Students must attend all presentations and complete all assignments to receive credit for the course.

Course Learning Outcome

Students will use prudent practices to conduct experiments safely.

Meeting Time and Location

1315 Chemistry- Seminar Hall

Tuesday January 16, 2018

10:00 – 10:15	Introduction	Ive Hermans
10:15 – 11:00	Course Overview	Rob McClain
11:15 -12:30	OSHA Chemical Worker Safety Training	Nils Gibson-UW Safety

Wednesday January 17, 2018

9:00 – 10:00	Hazards of Chemical Synthesis	Steve Burke
10:15 – 10:35	Biological Hazards	Judith Burstyn
10:35 – 10:55	Radiation Hazards	Judith Burstyn
11:10– 11:40	Building Safety and Security	Jeff Nielsen
11:40 – 12:00	Proper Disposal in Chemistry	Jim Zernicke
12:00 – 12:20	Library Resources	Ariel Andrea

Thursday January 18, 2018

9:00 -9:20	Electrical Safety	Rob McClain
9:20 – 9:40	Laser Safety	Etienne Garand
9:40 - 10:00	Asphyxiation Hazards	Charlie Fry
10:15 – 11:15	Chemical Hygiene Plans and Risk Analysis	Jeff Zebrowski UW-CHO
11:15- 11:30	Wrap-up	Rob McClain
11:30- 12:30	Fire Extinguisher Training (optional)	Don Siebert UW Safety

Assignments

Assignment #1	Hazardous Chemical	Due Thu. Jan. 18, 2018
Assignment #2	UW Chemistry Safety Worksheet	Due Fri. Jan. 19, 2018
Assignment #3	Chemical Hygiene Plan	Due Fri. Mar. 23, 2018

Rules, rights & responsibilities

Every member of the University of Wisconsin–Madison community has the right to expect to conduct his or her academic and social life in an environment free from threats, danger, or harassment. Students also have the responsibility to conduct themselves in a manner compatible with membership in the university and local communities. UWS Chapters 17 and 18 of the Wisconsin Administrative Code list the university policies students are expected to uphold and describes the procedures used when students are accused of misconduct. Chapter 17 also lists the possible responses the university may apply when a student is found to violate policy. The process used to determine any violations and disciplinary actions is an important part of UWS 17. For the complete text of UWS Chapter 17, see [this link](#), or contact the on-call dean in the Dean of Students Office, 608-263-5700, Room 70 Bascom Hall.

No student may be denied admission to, participation in or the benefits of, or discriminated against in any service, program, course or facility of the [UW] system or its institutions or centers because of the student's race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status or parental status.

Academic integrity

By enrolling in this course, each student assumes the responsibilities of an active participant in UW-Madison's community of scholars in which everyone's academic work and behavior are held to the highest academic integrity standards. Academic misconduct compromises the integrity of the university. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. This includes but is not limited to failure on the assignment/course, disciplinary probation, or suspension. Substantial or repeated cases of misconduct will be forwarded to the Office of Student Conduct & Community Standards for additional review. For more information, refer to studentconduct.wiscweb.wisc.edu/academic-integrity/.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

McBurney Disability Resource Center syllabus statement: “The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform faculty [me] of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. Faculty [I], will work either directly with the student [you] or in coordination with the McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student's educational record, is confidential and protected under FERPA.” <http://mcburney.wisc.edu/facstaffother/faculty/syllabus.php>

DIVERSITY & INCLUSION

Institutional statement on diversity: “Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world.” <https://diversity.wisc.edu/>