

MSE492 / CHEM494 – Lab Safety Fundamentals

Spring 2024

Course Description:

The primary goals of the course are to 1) introduce basic concepts in laboratory safety, 2) increase awareness of safety issues in research labs and lab courses and 3) provide basic knowledge in dealing with simple lab safety problems. Information will be provided via in-person lectures. Course evaluation will consist of successful completion of in-class quizzes and Division of Research Safety (DRS) online training modules as well as an in-person fire extinguisher training.

Drops/Withdrawals:

Please note that MSE492 / CHEM494 has a scheduled duration of approximately 2.5 weeks during the semester and is thus considered a nonstandard class. As such, it has different rules for drop deadlines and refund percentages. Specific information about this matter can be found at <https://registrar.illinois.edu/tuition-fees/refunds/>.

Instructor:

Dr. Nathan Gabrielson
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Office: 209 Ceramics

Course Text:

There is no required textbook for the class. Copies of lectures will be provided as electronic resources on the course website.

Website:

<https://canvas.illinois.edu>

Meetings and Topics:

Class meets Mondays and Wednesdays in 100 Noyes Laboratory from Wednesday, September 6 through Wednesday, September 20. Although the class is scheduled from 7:00PM-8:50PM, we will likely end sooner than that. In addition, an in-person fire extinguisher training will be conducted once during the course. Students are expected to attend the training at a time that fits their schedule. Lecture topics and fire extinguisher training will follow the schedule shown below:

Class Meetings:

Date	Lecture Topic
Monday, March 18	General Laboratory Safety
Wednesday, March 20	Risk Assessment
Monday, March 25	Chemical Safety
Wednesday, March 27	Biological Safety
Monday, April 1	Laser Safety

In-Person Fire Extinguisher Training (see <https://fs.illinois.edu/News/campus-fire-extinguisher-training>):

Date	Time	Location	Signup Link
Fri., Jan. 19	10:00-10:50AM	Everitt Lab, Rm. 2233 or 1036	https://forms.illinois.edu/sec/2096791620
Tues., Jan. 30	2:00-2:50PM	Bevier Hall, Rm. 180	https://forms.illinois.edu/sec/1803505135
Tues., Jan. 30	3:00-3:50PM	Bevier Hall, Rm. 180	https://forms.illinois.edu/sec/1194069877
Thurs., Feb. 8	9:00-9:50AM	Wohlers Hall, Rm. 141	https://forms.illinois.edu/sec/2064018135
Thurs., Feb. 8	10:00-10:50AM	Wohlers Hall, Rm. 141	https://forms.illinois.edu/sec/1209669531
Wed., Feb. 21	2:00-2:50PM	Lincoln Hall, Rm. 1092	https://forms.illinois.edu/sec/787133759
Wed., Feb. 21	3:00-3:50PM	Lincoln Hall, Rm. 1092	https://forms.illinois.edu/sec/1823889198
Tues., Mar. 5	9:00-9:50AM	Everitt Lab, Rm. 2233 or 1036	https://forms.illinois.edu/sec/108609212
Tues., Mar. 5	10:00-10:50AM	Everitt Lab, Rm. 2233 or 1036	https://forms.illinois.edu/sec/1076696455
Wed. Mar. 27	2:00-2:50PM	Burrill Hall, Rm. 140	https://forms.illinois.edu/sec/780093152
Wed. Mar. 27	3:00-3:50PM	Burrill Hall, Rm. 140	https://forms.illinois.edu/sec/207091235
Mon. Apr. 22	2:00-2:50PM	Wohlers Hall, Rm., 141	https://forms.illinois.edu/sec/1967926513
Wed., May 1	9:00-9:50AM	Animal Sciences Lab, Rm. 131	https://forms.illinois.edu/sec/1380324272

Grading/Evaluation:

MSE492 / CHEM494 is graded on a Satisfactory (S) / Unsatisfactory (U) scale. In order to receive a Satisfactory score, it is necessary to 1) attend class and successfully complete the in-class quizzes, 2) complete the required online training modules offered through the Division of Research Safety (DRS), 3) upload the DRS completion certificates to the course website, and 4) complete the in-person fire extinguisher training.

In-Class Quizzes

Multiple choice quizzes covering the lecture topics will be given at each class and are intended to serve as a check that the lecture material is understood. Quizzes will be given at the start of class and are due at the end.

DRS Training Modules

Visit <https://ovcrportal.research.illinois.edu/> and select the "Training Library" menu item to access the training material. After finishing the required training, submit the certificate at <https://canvas.illinois.edu> as proof of completion. If training has been completed prior to MSE492 / CHEM494, you may upload your existing, valid certificate as proof.

Training Module	Due Date
Laboratory Safety Training	Sunday, March 24 @ 11:59PM
Risk Assessment for Research Procedures	Sunday, March 24 @ 11:59PM
Chemical Safety: An Introduction	Sunday, March 31 @ 11:59PM
Understanding Biosafety	Sunday, March 31 @ 11:59PM
Laser Safety	Sunday, April 7 @ 11:59PM

Other: https://emails.illinois.edu/files/2056962258/gcoe_syllabusstatement_artf.pdf