

CHEM 201/CHEM701, FALL 2017
LAB SAFETY IN CHEMICAL SCIENCE

GENERAL INFORMATION

Instructor: Dr. Helena C. Malinakova 4029 Malott Hall
e-mail: hmalina@ku.edu
phone: 785-864-4743

Assisting: Susan Teague
2010 Malott
steague@ku.edu

Office Hours: Tuesday and Thursday 10:00-10:50 AM, 4029 Malott

Course Goals:

This course is designed to introduce students to safe practices in the chemical laboratory. You will learn about the hazards of chemicals, regulations and safe practices that cover their use and disposal, and how to protect yourself against chemical hazards.

Lectures:

The lectures will be held in 1003 Malott Hall, Friday 1 – 3 PM

Attendance and active participation is required, will be monitored and constitute a part of your grade.

Textbook: Book provided by the department: Laboratory Safety for Chemistry Students by Robert H. Hill, Jr and David C. Finster.

Blackboard:

Important announcements and will be posted on the course website in *Blackboard* at <http://courseware.ku.edu>.

Make sure to look up the announcements and current postings prior to each class!

For help with accessing the course site contact the ACS Help Center at 864-0200 or call IDS at 864-2600.

Quizzes:

There will be three (3) Quizzes given in class on the topics covered in the Chapters indicated in the Schedule below. You must study the Chapter from the textbook provided **BEFORE the class and come ready to take the Quiz.**

Final examination: As a part of the Final examination, you will be expected to prepare a written, hard copy: Safety Poster; Safety Lab Inspection Report and a Response to a Scenario given in class (details about these assignments will be provided in class).

Attendance is required and will be monitored. You must achieve *100% of the attendance points* to pass the class. In case of an emergency event, make sure to have an official documentation for your absence and contact the instructor immediately!

Marking:

Attendance – 100

Quizzes – 50

Final will include: - 250

Lab inspection process

Lab Inspection Report

Safety poster

Response to a Scenario

Total Points: 400

Letter grades will be assigned on the basis of total accumulated points relative to the maximum of 100 pts. In no case will a person receive a letter grade lower than would be obtained based on the traditional A>90, B>80, C>70, etc. scheme.

Schedule

8/25/17 – Introduction – Susan Teague

09/01/17 – **Quiz in class on Chapter 2:** Emergency Response & **Chapter 3:**

Understanding and Communicating Hazards

Speaker – Dr. Minae Mure

09/08/17 – **Quiz in class on Chapter 4** – Recognizing Laboratory Hazards: Toxic

Substances and Biological Agents & **Chapter 5** – Recognizing Lab Hazards:
Physical Hazards

Speaker - Dr. James Blakemore

09/15/17 – **Quiz in class on Chapter 6** - Risk Assessment & **Chapter 7** – Minimizing,
Controlling and Managing Hazards

Speaker - Dr. Chris Elles

09/22/17 - Discussion of lab accidents (UCLA, Texas Tech and Hawaii)

Speaker – Dr. Helena Malinakova

09/29/17 – **Read Chapter 8** – Chemical Management: Inspections, Storage, Wastes and Security

Speaker – Susan Teague – How to conduct a Lab Inspection

10/06/17 - Lab inspections will be done this week – information to follow

Final Examination Materials – to be handed to Prof. Helena Malinakova before 10/13/2017:

1. Completed lab inspection with write up on lab conditions
2. Safety poster
3. Answer to the scenario given in class

August 11, 2017
The University of Kansas
Chemistry 695, F 2017