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Fall 9-1-2015

### CHMY 485.01: Laboratory Safety

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**CHMY 485 Fall 2015**  
**Laboratory Safety (1 credit)**  
**Dr. Holly Thompson**

**Instructor Information**

office hours: M 9:10-10, T 11:10-12 and by arrangement  
email: [holly.thompson@umontana.edu](mailto:holly.thompson@umontana.edu) office: Chem 402 phone: 243-2070  
lectures: F 11:10-12pm Chem 204

**Course Description**

CHMY 485 introduces the various types of hazards found in laboratories, methods for controlling laboratory hazards, legal responsibilities and sources of information about these issues. The course is focused primarily on preparing students to safely teach middle school and high school science classes, although the information covered is relevant for other careers as well.

**Course Materials**

There is no text for Chmy 485. Course materials will be handed out in class.

**Assessment**

Grades will be based on class attendance (40 pts) , the MSDS quiz (10 pts), the worksheet on safe handling of chemicals (20 pts) and the final exam (30 pts), for a total of 100 possible pts. Letter grades will be determined from the point total using 90.0%, 80.0%, 70.0% and 60.0% as cutoffs for A, B, C and D, respectively.

1. class attendance 40 pts

There are 14 classes plus the final exam meeting time. Everyone starts with 40 attendance points. One absence during the semester will be excused if you show me notes you have copied from another student who attended the class. Further absences will be penalized at 10 pts per absence.

2. MSDS Quiz 10 pts

Short quiz on material safety data sheets and interpretation of information found in MSDSs.

3. take-home worksheet on safe handling of chemicals 30 pts

The worksheet will cover procedures for safe handling, storage and disposal of chemicals, and will include some extended problem solving.

4. final exam 20 pts

The comprehensive, open-book final exam covers "real world style" lab safety problems.

## Course Schedule

\* The schedule is subject to rearrangement based on availability of Missoula fire fighters for fire extinguisher practice.

week 1	09/04	introduction, role of supervisor/classroom teacher, legal & ethical issues
week 2	09/11	controlling behavior in the classroom
week 3	09/18	safe handling of chemicals-MSDSs
week 4	09/25	MSDS quiz, safe handling of chemicals
week 5	10/02	safe handling of chemicals
week 6	10/09	fire hazard issues
week 7	10/16	Fire Extinguisher Practice (behind Physical Plant)*
week 8	10/23	safe handling of chemicals
week 9	10/30	worksheet on safe handling of chemicals due today personal protection equipment
week 10	11/06	safety equipment-laboratory
week 11	11/13	physical safety issues
week 12	11/20	safe handling of biological materials
week 13	11/27	Thanksgiving Holiday
week 14	12/04	handling accidents, additional resources and information
week 15	12/11	any unfinished business, wrap-up
finals week	12/18	8:10-10 am (Friday) open-book final exam