Instructor Information

office hours:  M 9:10-10, T 11:10-12 and by arrangement
email:        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