CU Custodial Staff: General Lab Safety Awareness
Proper Attire to Enter Labs

In order for the custodial staff to enter a lab, he or she must have on the proper attire.

This includes long pants and closed toe shoes.
Minimal Personal Protective Equipment (PPE) for Custodial Staff to Enter a Lab

What to Wear to Enter a Lab:
Safety glasses and Gloves.
These items will be provided by the Custodial department.
Lab Door Signage

Universal Lab Door Signage:

**Lab Number:**

**Box Date:**

**Emergency Dial:** 9-1-1

**Hazard:**
- Carcinogenic
- Mutagenic
- Teratogenic
- Corrosives
- Flammable (Solid and Liquid)
- Water Reactive Chemicals
- Unstable Chemicals

**Compressed Gases list:**

**Other Hazards list:**

**MSDSs are located:**

**RESEARCH SAFETY CONTACTS**
- Chemical Hygiene Officer: Vincent Kelly 606-7754 or vincent.kelly@umontana.edu
- Biological Safety Officer: Bobby Clark 772-2503 or bobby.clark@umontana.edu
- Hazardous Waste Officer: June Brock-Carroll 606-7770 or june.brock-carroll@umontana.edu

**Entry Requirements**
- Eye Protection:
- Protective Clothing:

**Additional Entry Requirements**
- VacciNations: Medical Surveillance

**Name** | **Title** | **Department** | **Office** | **Office Phone** | **Mobile Phone**
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Lab Door Signage:
Notice, in the upper, right hand corner, there is a red dot.
Custodial Staff is NOT Allowed to ENTER.
Lab Door Signage: Notice, in the upper, right hand corner, there is a yellow dot. **Custodial Staff May Enter with Escort Only.**
Lab Door Signage:
Notice, in the upper, right hand corner, there is a green dot.

Custodial Staff May Enter the Lab.
Floors in Labs

In the Labs:
Do **Not** move items in floor.
The lab is responsible for proper disposal and moving items in the floor.
Counter Tops in Labs

In the Labs:
Do **Not** touch Counter Tops.
The lab is responsible for counter tops.
Trash Cans and Liners

In the Labs:
Acceptable general, non-contaminated trash cans and liners.
In the Labs:
The items below may be found in general, non-contaminated trash.

The items below are Not syringes.
This is a plastic pipette tip.

These are plastic pipettes.

The item below is a disposable glove.
Trash in Labs

In the Labs:
Empty chemical containers with labels intact are **Not** disposed of in general, non-contaminated trash. Labels must be marked out or removed.
Trash in Labs

In the Labs:
Empty containers:
Example of a properly defaced empty container.
Items in Labs

**In the Labs:** Custodial Staff does **Not** dispose of broken glass containers. Do **Not** Touch. The lab is responsible for proper disposal.
Hazard Communication (Right To Know)
Safety Data Sheets (SDS) and Material Safety Data Sheets (MSDS)
Labeling
The 9 Pictograms of Hazard Classes
Right To Know: The 9 Pictograms and What They Mean

GHS – Hazard Pictograms and correlated exemplary Hazard Classes

Physical Hazards
- Explosives
- Flammable Liquids
- Oxidizing Liquids
- Compressed Gases
- Corrosive to Metals

Health Hazards
- Acute Toxicity
- Skin Corrosion
- Skin Irritation

Env. Hazards
- CMR, STOT, Aspiration Hazard

1) carcinogenic, germ cell mutagenic, toxic to reproduction / 2) specific target organ toxicity
Signs and Symbols in Labs

**Signs and Symbols:**
Flammable materials.
Do **Not** Touch.
Signs and Symbols:
Oxidizing materials.
Do Not Touch.
Signs and Symbols in Labs

**Signs and Symbols:**
Explosive materials.
Do **Not** Touch.
Signs and Symbols: Corrosive materials. Do **Not** Touch.
Signs and Symbols in Labs

Signs and Symbols:
Toxic materials.
Do Not Touch.
Signs and Symbols in Labs

Signs and Symbols:
Water Reactive materials: Containers and/or storage.
Do Not Touch.
Do Not use water around these chemicals.
Lab Signage

Laboratory Signage:

- Danger
- Laser Operating
- Biohazard
- BSL-2
- Caution
- Radioactive Material
- Chemical Storage Area
- No Food or Drink Allowed in Pool Area
- Laboratory Emergency Information
Biological Labs and Biosafety:

A biological lab: research with plants, animal or human tissues.

Biosafety Level 1 (BSL 1 or BL 1): may not have signs

Biosafety Level 2 (BSL 2 or BL 2): signs posted
Biological Labs and Biosafety:
These signs do not indicate a BL 2 Lab, only that bio-hazardous materials are present in the lab.
Biological Labs and Biosafety:
The lab is responsible for proper disposal. Do **Not** Touch.
Biological Labs and Biosafety:
The lab is responsible for proper disposal. Do **Not** Touch.
Biological Labs and Safety:
If a biohazard safety label is shown, and the item is misleading, Do Not Touch.
Biological Labs and Safety:
Custodial staff does **Not** touch sharps containers. The lab is responsible for proper disposal.

Sharps/Syringes. Do **Not** Touch.
Radioactive Materials and Radsafety:
Radiation is invisible energy created by various agents and machines. Example: X-ray machines
Radioactive Materials and Radsafety:
Radioactive materials are disposed in yellow containers and/or yellow bags.

Custodial staff is Not to dispose of these items. Do Not Touch.
Radioactive Materials and Radsafety

Radioactive Materials and Radsafety:
Examples of Radioactive Material in yellow disposal containers and yellow liners. Do Not Touch.
Lasers and Magnets:
A few labs on CU campus have Lasers and/or Magnets. Do **Not** enter when the laser or magnet is in use.
What is Hazardous Waste?

Do Not Touch.

If it is a chemical that is ready for disposal, it must be disposed as a Hazardous Waste.
Hazardous Waste in Labs

**Hazardous Waste Labels:**
Do **Not** Touch.
Properly labeled Hazardous Waste:
Do Not Touch.

A Hazardous Waste Label will include:
Chemical name
Hazards
Hazardous Waste in Labs

Properly labeled Hazardous Waste:
Do Not Touch.
Equipment in Labs

**Lab equipment:**

- Biological Safety Cabinet (BSC). Do **Not** Touch.
- Chemical Fume Hood. Do **Not** Touch.
Lab equipment:
Flammable cabinets.
Do Not Touch.
Lab equipment:
Corrosives cabinets.
Do Not Touch.
Equipment in Labs

**Drench equipment:**
Safety showers:

15 minutes
Equipment in Labs

**Drench equipment:**

Eye Wash:

- 15 minutes
Clemson University Fire Department responds to spills for main campus.

In the event of a spill, contact CUFD by dialing: 911 or 656-2222.

OSHA’s Laboratory Standard 29 CFR 1910.1450 is known as the Occupational Exposure to Hazardous Chemical in Laboratories. OSHA has written this to minimize employee exposure to hazardous chemicals in the labs. Just as OSHA oversees Hazard Communication for employees, it also oversees this lab standard program for all labs.

The South Carolina Department of Health and Environmental Control (DHEC) has granted CU a radioactive materials license. CU is committed to keeping all radiation exposures As Low As Reasonably Achievable (ALARA).

Both the U.S. EPA and SC DHEC regulate the disposal of chemical wastes.

All Labs have rules and regulations that they must follow.
The Office of Environmental Safety provides training in the following areas:
Hazard Communication
Bloodborne Pathogens
General Lab Safety for Custodians
General Lab Safety for Facilities Maintenance
Safety Data Sheets
SPCC and Storm Water (MS4)
Asbestos
Ladder and Scaffold
Confined Space
Chemical Fume Hoods
Forklifts

The Office of Research Safety provides online training in the following areas:
Biological Safety
Biological Safety Cabinets
Bloodborne Pathogens
Chemical Hygiene
Hazard Communication
Hazardous Waste Management
Laser Safety
Safety Data Sheets