



# MONTCLAIR STATE

---

# UNIVERSITY

## Department of Mathematical Sciences

### Safety Rules for Physics Laboratories

The following guidelines and policies are designed to protect students from injuries and exposure to hazardous chemicals in the academic laboratories. The safety rules will be enforced at all times by authorized department personnel. Students who do not follow the safety rules will be subject to dismissal from the laboratory.

#### I. Guidelines for Personal Apparel in the Laboratory

- A. To avoid exposure to injuries, open-backed shirts, bare midriff shirts, or shirts which expose areas of the torso are not permitted.
- B. Wear shoes which completely cover the feet. Sandals, perforated shoes, open-toed shoes, or open-backed shoes are not permitted in the laboratory. Watch out for dropped masses.
- C. Most of the experiments in this course can be safely performed without gloves. If required, gloves will be provided and must be worn.
- D. For your protection, jewelry should not be worn in the laboratory. Dangling jewelry can become entangled in equipment and can conduct electricity. The use of headphones (i.e. iPods) other than approved hearing protection devices is prohibited.

#### II. General Guidelines for Laboratory Procedures

- A. Doing experiments in the laboratory without supervision is prohibited. The performance of unauthorized experiments and the use of any equipment in an unauthorized or unsafe manner are strictly forbidden.
- B. Horseplay in the laboratory is unacceptable behavior and is cause for immediate removal from the laboratory.
- C. Examine all apparatus for defects before performing any experiments. Do not use damaged, cracked, or otherwise defective glassware. Consult your instructor about where to place broken glass. If you break a thermometer or find a broken thermometer, report it to your instructor immediately.
- D. Please exercise caution when dealing with electrical devices.
- E. Do not remove apparatus from cabinets without the permission of the instructor.
- F. Coats, bags, and other personal items should be stored in the proper areas; not on the bench tops or in the aisle ways.

- G. All containers containing chemicals or solutions of any kind that are retained between laboratory sessions must be labeled so that the contents can be identified by others. The label must also contain the date and the name of the responsible person.
- H. Return all of your equipment and glassware to its original location at the end of the laboratory session.
- I. When the fire alarm sounds you must evacuate the building via the nearest exit. Extinguish all flames and turn off all equipment, as appropriate, before leaving
- J. All personal accidents, injuries and illnesses, however slight, occurring in the laboratory must be reported immediately to the instructor.
- K. Visitors, including children, are not permitted to enter the laboratories.
- L. Do not take laboratory equipment, glassware outside the lab without the permission of the instructor.

### III. General Guidelines for Students working in Physics Research Labs

In addition to the above safety precautions, we recommend that students working in either of the Physics research labs follow the safety guidelines below:

- A. All liquids used in the fluid mechanics labs must be stored in labeled containers.
- B. All electrical supplies must be safely put away after use.
- C. Any liquid (safe liquid) spills must be cleaned up immediately to avoid injuries. In case of bigger leaks, the appropriate authorities (the primary faculty in charge) must be notified.
- D. All glassware must be handled carefully and stored in its appropriate place after use.
- E. The lab is only for the use of the students authorized to work there. Guests will not be entertained.
- F. Equipment cannot be removed from labs for any reason without prior permission from the faculty in charge.
- G. Please exercise caution when handling liquids in the vicinity of electrical equipment.
- H. Working in the lab during late evening hours after everyone has left is not recommended. If you must work then, please notify the faculty in charge in advance.

**I have read and understand the safety rules and am aware of the consequences of failing to observe them.**

Print Name: \_\_\_\_\_

Course and section: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_