



# Safety Gram

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## Personal Protective Equipment

### What is Personal Protective Equipment?

Personal protective equipment, commonly referred to as "PPE", is equipment worn to minimize exposure to hazards that cause serious workplace injuries and illnesses. These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards.

**BYU REQUIRES A MINIMUM OF CLOSED TOED SHOES, LONG PANTS, AND EYE PROTECTION IN EVERY LAB.**

### NOT ALL EYEWEAR IS CREATED EQUAL

OSHA states, "The employer shall ensure that each affected employee uses appropriated eye or face protection when exposed to eye or face hazards from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation." In order to comply with appropriate eye protection, the American National Standards Institute (ANSI) approves and issues the testing standards and guidelines to protect consumers and workers from real life hazards. Often on your googles you will be able to see different labels that indicate the level of protection the googles provide. Although this may not always be the case, sometimes a little investigation is needed in order to determine the proper applications of the eye protection.

### Safety Committee

The Chemistry and Biochemistry Department Safety Committee purpose is to help protect researchers, workers, and students in the department. Please contact us with any questions, concerns, or suggestions about lab safety.

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# Examples of Eyewear Sold by Chem Stores

## Uvex Futura



### Details:

- Offers protection against dust, mist, impact and chemical splash
- Offers protection against welding infrared radiation
- Certified to meet ANSI & tested by Honeywell to meet the requirements of the CSA Z94.3

## Uvex Flex Seal



### Details:

- Uvextreme Anti-fog lens coating
- U6 grade-level lens filtering 99.9% of UVB/UVA protection
- Certified to meet ANSI+ - 2015
- Tested by Honeywell to meet the requirements of the CSA Z94.3 standard

## Virtua



### Details:

- These safety glasses are recommended for the following tasks: chipping, chiseling, drilling, grinding, machining, masonry, pouring/casting, power fastening, riveting, sanding and sawing
- **Not designed for chemical splashes**
- Polycarbonate lenses absorb 99.9% UVA and UVB
- Wraparound design provides extended eye protection and unobstructed viewing

## Examples of Good and Bad PPE



### Good PPE

- Long pants
- Gloves
- Goggles
- Closed toed shoes

### Bad PPE

- No gloves
- Shorts
- Safety glasses (not adequate when working with liquid chemicals)
- Open toed shoes

