

Instructional Lab Operations at Montgomery College

The College Provides Basic Instructional Undergraduate Labs

The laboratories on campus are basic instructional labs similar to MCPS labs—no investigative research or commercial activities

The College Uses Standard Instructional Lab Materials

Many are common household materials, including:

- Alcohols
Primarily Isopropanol, or rubbing alcohol; Ethanol; Methanol
- Caffeine
Found in coffee, chocolate, and many sodas
- Aspirin
Acetylsalicylic acid
- Tylenol
Acetaminophen
- Ibuprofen
2-(4-Isobutylphenyl) propanoic acid
- Hexane
Solvent used in glues and to extract cooking oils, e.g., soybean and canola
- Helium gas
Often used to inflate balloons at birthday parties
- Vinegar
Acetic acid
- Starch
- Sugars
Sucrose, Glucose
- Ajax laundry detergent
- Phosphoric Acid
Found in sodas
- Salts
A variety of cationic and anionic compounds
- Weak to strong acids
HCL, found in your stomach
- Acetone
Nail polish remover

The College Places a Priority on Safety and Utilizes Appropriate Protocols

Established Safety Programs Include:

- Classroom and office protocols in place
- Consistent materials hygiene and hazard communication
- Safety for facilities operations and maintenance activities

The College Employs Staff Dedicated to Safety

Montgomery College's Environmental Safety Office works to promote a healthy and safe work environment for all members of the College community and, as result, the communities in which the College operates.

The Environmental Safety Office requires safety training for faculty, staff, and students; provides laboratory access to Safety Data Sheets for chemical materials; oversees proper disposal of chemical waste; investigates safety complaints; and responds to environmental emergencies that may impact our campuses or our students.

The College Has a Strong Demonstrated Record of Safety

Labs have been present and safely operated on the Takoma Park/Silver Spring Campus for more than 50 years.

College Materials Are Strictly Regulated at All Levels of Government

The Environmental Safety Office administers and oversees compliance with federal and state environmental and occupational regulations

Key Regulatory Bodies:

- OSHA
Occupational Safety and Safety Administration
- MOSH
Maryland Occupational Safety and Health
- EPA
Environmental Protection Agency
- MDE
Maryland Department of the Environment
- WSSC
Washington Suburban Sanitary Commission

The College Contracts with ECOFLO, Inc. for Pick up of All Chemical Waste

ECOFLO is waste management company that conforms to EPA, DOT, and state regulations.