



Welcome to Building 55 - Edward Shanbrom Hall

As you may be aware, Building 55 is one of the most energy efficient lab buildings and is a part of the UCI Smart Labs Program. Please take a moment to review these unique features.

Centralized Demand Controlled Ventilation – The *Aircuity* system installed in some of the Building 55 research laboratory spaces, monitors indoor air quality and adjusts supply and exhaust air delivery based upon indoor contaminant levels. The automated system samples packets of air and then analyzes them with a battery of sensors to determine air change rates required for each zone. The sensors are calibrated every six months and the system is monitored via a web interface.

Red Button – In the event of a chemical spill or other event requiring increased ventilation in a lab, an emergency ventilation override button has been installed. Pressing this button will increase air change rates to maximum while maintaining negative lab pressurization. This button should not be pressed in the event of a fire!

Occupancy Controlled HVAC – The Smart Lab design of the ventilation system includes occupancy based air change rate controls. Occupancy sensors will allow for air change rate reductions during unoccupied periods. Upon initial entry after a long period of inactivity, the lab may feel stuffy, please allow a few minutes for the room to normalize.

Occupancy Controlled Lighting – Overhead lights turn on automatically when motion is detected. The lights will automatically turn off during unoccupied periods. The overhead lighting may also be turned off manually. Advanced daylighting controls reduce perimeter artificial lighting when sufficient natural daylight is entering each space.

Energy Efficient Filtration/Better Indoor Air Quality – Building 55 is equipped with energy saving high efficiency MERV 15 particulate filters resulting in lower energy costs and improved indoor air quality.