

## Building Temperatures

In the past fifteen-years, the construction of new buildings on campus has included much more controllable, state-of-the-art building systems. These systems enable the Physical Plant to better monitor and control occupancy comfort from within the building and - in many cases - remotely as well. Many of our older buildings, such as Old Main, Meadors and Mashburn, have very old systems that need to be replaced as money is available. Whether in a newer or older building, equipment can fail or function improperly. When this type of failure occurs in campus buildings with control systems, the Physical Plant's Energy Management control shop can quickly identify and respond to the issue. In older buildings, however, regular building walk-throughs and mechanical system checks by our technicians are necessary.

One very important tool is the building occupants' use of work order requests. These will allow service techs to respond to specific issues and locations. It is worth noting that in some instances, thermostats are shared between multiple rooms, and oftentimes, occupants may experience different levels of comfort depending upon the thermostat setting.

### **Harrin Hall**

Occupied from 5:00 a.m. to 9:55 p.m.  
80 degrees is the unoccupied cooling set point  
60 degrees is the unoccupied heating set point

### **Thompson Hall**

Occupied from 6:00 a.m. to 7:00 p.m.  
85 degrees unoccupied cooling set point  
65 degrees unoccupied heating set point

### **Math Tech**

Occupied from 4:30 a.m. to 8:00 p.m.  
75 degrees unoccupied cooling set point  
65 degrees unoccupied heating set point

The starting occupied time, such as 5:00 a.m. on Harrin, is the time that the air handlers or boilers reset to the customers' desired set point. Occupied time is when the customer has control of their office/classroom. The length of time it would take for the temperature to adjust to the customers' setting would depend on how far their desired setting is from the unoccupied setting and the size of the space. Small areas such as offices can cool off or heat up in a pretty short amount of time - 10 minutes, for example. A large lecture hall would take closer to 30 minutes.

Some areas are not on unoccupied or occupied setting but are instead on a certain temperature range (the rooms in Arkansas Hall, for example). The students/staff are able to adjust their temperatures between the range of 68 and 78 degrees (with a 2 degree differential, meaning the actual temperature in the room could be anywhere from 66 to 80 degrees), but they can't adjust outside of those parameters. Therefore, even if they tried to adjust their room thermostat down to 55 degrees, it will not go below 68 degrees on the thermostat.

**Leslie McElhaney**  
Engineering Assistant  
[lesliem@uca.edu](mailto:lesliem@uca.edu)