Guidelines

(Energy Conservation and Building Management)

Responsibilities:

Every person is expected to become an "energy saver" as well as an "energy consumer."

The College is committed to and responsible for a safe and healthy learning environment.

The faculty/staff member is responsible for implementing the guidelines during the time that he/she is present in the instruction room/office.

The custodial staff is responsible for control of common areas, i.e. hallways, dining areas, etc.

Maintenance staff is responsible for verification of the nighttime shutdown.

The Energy Specialist provides regular (at least semi-annual) program update reports to the College Administration.

The Energy Specialist performs routine audits of all facilities and communicates the audit results to the appropriate personnel.

The Energy Specialist is responsible for indirectly making adjustments to the Organization's Energy Management System (EMS), including temperature settings and run times for Heating, Ventilation and Air Conditioning (HVAC) and other controlled equipment.

The Energy Specialist provides monthly energy savings reports to facilities management detailing performance results.

The Administration will regularly communicate the importance and impact of the energy conservation program to its internal and external constituents.

To complement the organization's behavioral-based energy conservation program, the College will continue to implement the preventive maintenance and monitoring plan for its facilities and systems, including HVAC, building envelope, and moisture control.

General:

Instruction room doors shall remain closed when HVAC is operating. Ensure doors between conditioned space and non-conditioned space remain closed at all times (i.e. between hallways and gym).

Proper and thorough utilization of data loggers will be initiated and maintained to monitor relative humidity, temperature, and light levels throughout campus buildings to ensure compliance with guidelines.

All exhaust fans should be turned off daily.

All office machines (copy machines, laminating equipment, etc.) shall be switched off each night and during unoccupied times. Fax machines and networked printers may remain on.

All computers should be turned off each night. This includes the monitor, local printer, and speakers. Network (i.e. LAN) equipment is excluded.

All capable PC's should be programmed for the "energy saver" mode using the power management feature. If network constraints restrict this for the PC, ensure the monitor "sleeps" after 10-minutes of inactivity.

Cooling Season Occupied Set Points¹: 72°F – 76°F

Unoccupied Set Point: 85°F

Heating Season Occupied Set Points¹: 70°F – 72°F

Unoccupied Set Point: 55°F

Air Conditioning Equipment

Occupied temperature settings shall NOT be set below 72° F.

During unoccupied times, the air conditioning equipment shall be off.

Air conditioning start times may be adjusted (depending on weather) to ensure instruction room comfort when instruction begins.

Ensure outside air dampers are closed during unoccupied times when applicable.

Ceiling fans should be operated in all areas that have them.

¹Set points are in accordance with ASHRAE 55 "Thermal Conditions for Human Occupancy"

Relative humidity levels shall not exceed 60% for any 24 hour period.

Heating Equipment

Occupied temperature settings shall NOT be above 72°F.

The unoccupied temperature setting shall be 55°F (i.e. setback). This may be adjusted to a 60°F setting during extreme weather.

During the spring and fall when there is no threat of freezing, all steam and forced air heating systems should be switched off during unoccupied times. Hot water heating systems should be switched off using the appropriate loop pumps.

Ensure all domestic hot water systems are set no higher than 120°F.

Ensure all domestic hot water re-circulating pumps are switched off during unoccupied times where applicable.

For heat pumps, ensure a 6°F dead-band between heating and cooling modes.

Lighting

All unnecessary lighting in unoccupied areas will be turned **off**. Faculty should make certain that lights are turned off when leaving the instruction room or office when empty. Utilize natural lighting where appropriate.

All outside lighting shall be off during daylight hours.

Gymnasium lights should not be left on unless the gymnasium is being utilized.

All lights will be turned **off** when students and staff leave for the day. Custodial staff will turn on lights only in the areas in which they are working.

Refrain from turning lights on unless definitely needed. Remember that lights not only consume electricity, but also give off heat that places an additional load on the air conditioning equipment and thereby increases the use of electricity necessary to cool the room.

Water

Ensure all plumbing and/or intrusion (I.e. roof) leaks are reported and repaired immediately.

Grounds watering should only be done between 6 p.m. - 10 a.m. Do not water during the heat of the day, typically between 10 a.m. - 6 p.m.

When spray irrigating, ensure the water does not directly hit the facility.

Consider installing water sub-meters on irrigation and cooling tower supply lines to eliminate sewer charges.