

## East Quadrangle Renovation



### Project Description

East Quadrangle is an approximately 300,000-gross-square-foot residence hall housing approximately 860 students and the Residential College. The renovation will update infrastructure, including: new plumbing, heating, cooling, ventilation, fire detection and suppression systems; wired and wireless high-speed network access; renovated bath facilities; and accessibility improvements. New and reorganized spaces within the facility will revitalize

the old residence hall and improve dining facilities. Since its inception in 1967, the Residential College has occupied spaces within East Quadrangle not originally designed for academic use, with offices and administrative functions housed in former bedrooms and most classrooms located in the basement.

### Energy Efficiency Measures

East Quad Residence Hall design focuses on maximizing energy efficiency by creating energy conservation measures such as:

- Increased exterior wall insulation
- New roof insulation
- Improved air-conditioning system, which will retire old smaller, inefficient systems
- Reduced lighting density throughout the building
- Utilizing occupancy sensors in all common areas
- Utilizing HVAC occupancy sensors in all common areas
- Increasing thermostat dead band by 2 degrees for offices and classrooms
- Utilizing infrared scans of building during construction
- Inspecting exterior wall and fenestration during construction
- Using an enthalpy wheel in the mechanical system as a means of energy recovery to utilize lost heat from the toilet room exhaust system.

### Other Sustainability Features

- East Quad is being renovated at its current location with over 80% of the existing exterior walls, 75% of the existing windows, and a majority of the existing interior walls being refurbished.
- Additional bicycle parking will be provided to encourage bicycle usage.
- Building materials both regional and local will be sought after where possible; project goal is not less than 10%.
- Demolished material will be recycled and/or reused; this includes steel, brick, and block.
- Existing site lighting, poles, lamps, and globes, will be reused
- Heritage trees throughout the site will be maintained and preserved
- Porous pavement materials will be utilized throughout existing courtyard spaces; this will take the place of existing non-porous materials
- Select existing kitchen equipment will be rehabilitated for optimal use
- Composting will be utilized
- Additional light wells and areaways will be constructed to take advantage of direct and borrowed natural light

**Project Data**

- Budget: \$116M
- Schedule: Completion scheduled for Summer 2013
- Square Feet: 300,000 gsf

**Status as of February 2012**

- Project Status: Bidding
- Design Complete: 100%
- Construction Complete: 0%