

Lakeside Dining Hall

The Lakeside Dining Hall includes a state of the art retail food court and extensive dining hall as well as additional space for campus programs. Per the University's Green Building Policy, the facility was designed and constructed to be a high performance sustainable building using the LEED standard and achieved a LEED Silver certification. LEED stands for Leadership in Energy and Environmental Design and is an internationally recognized benchmark for the design, construction and operation of high performance green buildings.



Lakeside Dining Hall offers views of Lake Mary Nell and is attached to the Moseley Center by an enclosed walkway. Construction of the 37,428 square foot facility began in the spring of 2012 and concluded in January 2013 with a grand opening in February. One of the retail locations, Freshii, offers organic and eco-friendly options. The dining hall features Local, Home and International Stations. The Local Station emphasizes a selection of foods seasonally available in North Carolina. The Home Station spotlights home-style favorites, such as high-quality meats and hearty vegetables. The International Station features global cuisine representing a different country each week. There is also a Winter Garden Café at the northwest corner of Moseley Center featuring ecoGrounds coffee, which is certified Rainforest Alliance, Fair Trade, Direct Relationship and/or Organic.

Sustainable Sites

Elon has several different methods of alternative transportation that Lakeside Dining Hall visitors and occupants can access. It is within walking distance of many commonly used buildings on campus such as Belk Library, Center for the Arts and the Koury Athletic Center. In addition, Elon BioBus stations are a short walking distance away. There, students can catch the BioBus routes, which service local apartments, shopping centers and community service locations. As with most buildings on Elon's campus, bike racks are also provided. The green space, pedestrian walkways and outdoor seating areas around the building encourage the use of outdoor space.



Water Efficiency



The plumbing fixtures in Lakeside Dining Hall are low-flow. The lavatory faucets use 0.5 gallons of water per minute and sensors control how long they operate. The toilets are dual-flush, and the urinals use only 1 pint of water per flush. The low-flow plumbing fixtures are expected to reduce the building's potable water usage by 33% or over 190,000 gallons/year.

The landscaping around the building is designed to minimize the need for irrigation. When it is needed, the automatic irrigation system is supplied

Energy Efficiency

Several energy efficiency strategies were implemented in Lakeside Dining Hall. The building is 20% more efficient than a building that just meets the standard building energy code.

Features contributing to the dining hall's energy efficiency include Energy Star qualified windows and layers of building insulation, which keep the building cooler in the summer and warmer in the winter. The energy efficient components of the mechanical system include a high efficiency water cooled chiller, 94% efficient condensing boilers, air handlers with variable speed drive motors on the first floor, air handlers with an energy recovery ventilator on the second floor and high efficiency motors and variable speed drives on the chilled and hot water pumps.



The lighting systems in the building are also energy efficient and incorporate controllability and occupancy sensors. In addition, the electrical usage of the building is metered including sub meters for lighting, mechanical and plug uses, which will allow for accurate monitoring and scheduling adjustment as needed.

Materials and Resources



Products containing recycled content were used as much as possible, such as concrete, steel and drywall, to reduce the need for virgin building materials. Approximately 19 percent of the building materials (based on cost) contain recycled content. The drywall contains over 90% recycled content material, and many of the steel products used contain over 80% recycled content material.

Regional materials were also used as much as possible to reduce the impact of transporting the building materials and to support the regional economy. Based on cost, about 35% of the building materials were regionally sourced, including cement, carpet and bricks.

During the construction of the Lakeside Dining Hall, about 76 percent of the construction waste was diverted from the landfill for recycling and/or reuse.

Like every building on Elon's campus, the dining hall has recycling bins throughout. Elon's recycling program accepts all kinds of paper, cardboard, plastic, glass and metals (aluminum beverage cans, steel food cans). In addition, there are compost bins in the retail dining space; and like Elon's other dining halls, pre- and post-consumer food waste is composted in the dining hall portion of the facility.

Indoor Environmental Quality

During construction, ductwork was kept covered to prevent debris from accumulating, and a special sweeping compound was used to minimize dust. The adhesives, sealants, paints, flooring systems and ceiling and wall systems used in the building contain low amounts of volatile organic compounds (VOCs). Low VOC products allow for better indoor air quality during and after construction.



The HVAC (heating, ventilation and air conditioning) system and building envelope were designed to meet thermal comfort standards to promote the productivity and well-being of occupants. In addition, thermostats are provided to allow occupants to adjust the temperature to suit their personal thermal comfort needs within a pre-defined range.

The dining hall has a great deal of windows, which provide natural light, reducing the need for artificial light. Daylighting (natural light) has been shown to improve occupant well-being and productivity. Adjustable light levels allow occupants to take full advantage of the natural light and adjust light levels to suit their needs.



The floor mats at all primary entrances prevent dust and other contaminants on shoes from entering the building. All rooms with chemical use, such as the copy rooms, are directly exhausted to the outside to prevent occupants from being exposed to any chemical smells.

The chairs in the dining hall seating area are GREENGUARD certified, meaning they have been tested by a third party and verified to contain low amounts of chemicals and particle emissions and have met acceptable indoor air quality guidelines and standards. GREENGUARD certification is a voluntary program used primarily by commercial/institutional furniture manufacturers.

Innovation and Design Process

This category within LEED recognizes exceptional performance and innovative strategies not covered in previous categories.

The University's green cleaning program will be utilized in Lakeside Dining Hall. Green cleaning improves indoor air quality, occupant health and well-being and is better for the environment.

Lakeside Dining Hall will be added to the online real-time electricity monitoring system ([Building Dashboard](#)). This system will allow occupants, as well as anyone else, to view and track the utility consumption in the building. Providing this information is part of the educational program for this building as is this web site and providing tours [if you would like a tour focusing on the sustainable features of Lakeside Dining Hall, please contact us.](#)