

LEED® SILVER CERTIFIED GREEN BUILDING PROJECT PROFILE

CUYAHOGA COMMUNITY COLLEGE
BRUNSWICK UNIVERSITY CENTER
BRUNSWICK, OHIO



LEED® Credits Awarded Brunswick University Center

BRUNSWICK, OHIO

LEED Rating System: New Construction 2.2

Silver	33*
Sustainable Sites	6/14
Water Efficiency	4/5
Energy & Atmosphere	3/17
Materials & Resources	7/13
Indoor Environmental Quality	11/15
Innovation & Design	2/5

*Out of possible 69 points

Achievements of project design:

30% reduction in domestic water usage

17% energy use savings

100% reduction in landscape watering

93% construction waste diverted from landfill

PROJECT BACKGROUND

Cuyahoga Community College (Tri-C®) collaborated with Robert Maschke Architects, Inc. on the design of the new Brunswick University Center. The 31,889 square foot building had a site and construction cost of \$7,154,000 and houses classrooms, science labs, a student lounge, and office and support spaces.

The Brunswick University Center was certified at the Silver level under the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) system. The building is energy efficient, takes advantage of daylight, reduces storm water run-off, has native and drought resistant landscaping, is frugal with water resources, provides a healthy indoor environment, and enhances the academic experience.

STRATEGIES AND RESULTS

The U.S. Green Building Council implemented the LEED program to encourage owners and professionals to design, build, and operate more environmentally appropriate buildings. The list below details design elements and indicates the number of points this project received out of the total credits possible within each of the six LEED categories available.

Sustainable Site Features 6 points out of 14 possible

- Close proximity to mass transit.
- Permeable pavers reduce stormwater runoff and improve water quality.
- White roof reduces heat absorption during cooling season.

Water Efficiency 4 points out of 5 possible

- High-efficiency plumbing fixtures reduce water consumption by 30%.
- Eliminated the need for landscape watering by utilizing native plants

Energy And Atmosphere 3 points out of 17 possible

- 17% savings in utilities, reducing annual costs by \$9,800.
- Building orientation and windows take advantage of natural light.

Materials And Resources 7 points out of 13 possible

- Use of materials from regional sources or made using recycled content reduced transportation costs, emissions, and kept money in the local economy.
- 93% of construction waste diverted from landfills.

Indoor Environmental Quality 11 points out of 15 possible

- HVAC system kept clean during construction, and permeable materials were protected from moisture exposure.
- Extensive use of low-volatile organic compound (VOC) emitting building materials.

Innovation And Design Process 2 points out of 5 possible

- Points received for education through building signage and from members of the project team being LEED Accredited Professionals.

Tri-C recognizes that its commitment to education and community includes a sense of responsibility to our environment. Tri-C will lead by example by investigating, developing, and promoting sustainable policies, practices, and curricula, with the goal of achieving sustainability throughout the College. The College also aspires to instill in our students, faculty, and staff a sense of stewardship towards the environment by giving them the information and support to continue sustainability efforts beyond the campus environment. We must strive to prepare our students, faculty, and staff to be leaders in creating and promoting a culture of diversity, sustainability, and environmental sensitivity through our community.

Sustainability at Tri-C means achieving the College's educational and community missions with a sense of responsibility for preserving the environment, promoting the economy, and improving society as a whole.

Cuyahoga Community College is committed to building and operating healthy environments for work and learning. Cuyahoga Community College adopted the USGBC LEED system to ensure that all future construction supports a healthy environment.

Building Owner

Cuyahoga Community College

Architect

Robert Maschke Architects

Structural Engineer

Richard L. Bowen + Assoc.

MEP Engineer

Richard L. Bowen + Assoc.

Landscape Designer

CT Consultants

Civil Engineering

CT Consultants

Construction Manager

Welty Building Company

Owners Representative

Gilbane Building Company

Commissioning Consultant

ME Osborn

Building Area

31,889 Square Feet

Site Area

1.5 Acres

Parking Capacity

87 Spaces

LEED Certification

Silver

Construction Schedule

Completed December 2010

ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction and operations of high-performance green buildings. Visit the U.S. Green Building Council's web site at www.usgbc.org to learn more about LEED and green building.

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