

LEED® GOLD CERTIFIED GREEN BUILDING PROJECT PROFILE

CUYAHOGA COMMUNITY COLLEGE
METROPOLITAN CAMPUS CENTER
METROPOLITAN CAMPUS, CLEVELAND, OHIO



Kevin G Reeves Photographer

LEED® Credits Awarded

MCC Project
METRO CAMPUS

LEED Rating System: New Construction 2009

Gold	62*
Sustainable Sites	22/26
Water Efficiency	5/10
Energy & Atmosphere	9/35
Materials & Resources	8/14
Indoor Environmental Quality	9/15
Innovation & Design	6/6
Regional Priority	3/4

*Out of possible 100 points + 10 bonus points



Achievements of project design & construction:

37% reduction in domestic water usage

50% reduction in landscape watering

69% reduction in stormwater runoff

23% energy use reduction

96% construction waste diverted from landfill

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PROJECT BACKGROUND

Cuyahoga Community College (Tri-C) collaborated with Bialosky Cleveland on the design of the completely renovated Metropolitan Campus Center (MCC) on Tri-C's Metro Campus. The new Campus Center reuses the structure of the previous building while completely updating the look and function of the building. The 106,000 square foot facility features foodservice, the campus bookstore, communal spaces for students, classrooms, offices, and space for events.

The MCC was certified at the Gold level under the US Green Building Council's Leadership in Energy and Environmental Design (LEED®) program. The MCC is energy and water efficient, takes advantage of daylight in common areas, reduces storm water run-off, provides a healthy indoor environment, and enhances the campus experience.

STRATEGIES AND RESULTS

The US 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 of the MCC and indicates the number of points pursued out of the total credits possible within each of LEED's six available categories.

Sustainable Site Features

22 points out of 26 possible

- Constructed on a previously developed site, reused existing building structure, in close proximity to mass transit and other existing urban infrastructure.
- Permeable areas as well as other buried stormwater management structures reduce untreated stormwater runoff from the site by 69% compared to before the renovation.
- White roof and light-colored paving reduces heat absorption during cooling season.

Water Efficiency

5 points out of 10 possible

- High-efficiency plumbing fixtures reduce water consumption by 37% - over 120,000 gallons per year.
- Landscape irrigation in summer months reduced 50%.

Energy and Atmosphere

9 points out of 35 possible

- 23% reduction in energy use, saving \$24,000 annually.
- LED lights installed throughout the building for energy efficiency and long life.
- Windows in common areas take advantage of natural light.

Materials and Resources

8 points out of 14 possible

- Reuse of 70% of the previous building's structural elements greatly reduced resources needed for construction. 4,515 tons of concrete and metal recycled during demolition.
- Use of materials from regional sources or made using recycled content reduced transportation costs, emissions, and kept money in the local economy.
- 96% of construction waste diverted from landfills.

Indoor Environmental Quality

9 points out of 15 possible

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

Innovation in Design, or Exemplary Performance

6 points out of 6 possible

- Innovation points received for green building education; building envelope commissioning; exemplary performance in stormwater management, construction waste management, and use of certified wood; and for having a LEED Accredited Professional involved.

Regional Priority

3 points out of 4 possible

Regional priority credits account for localized issues. MCC received additional credits for stormwater quantity and quality control, and for construction waste diversion exceeding 75%.

Tri-C recognizes that its commitment to education and community includes a sense of responsibility to our 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

Bialosky Cleveland

Structural Engineer

Barber & Hoffman, Inc

MEP Engineer

Karpinski Engineering

Landscape Designer

Knight & Stolar

Visionscapes Landscape Architects

Civil Engineering

GPD Group

Construction Manager

Turner Construction

Commissioning & LEED Consultant

Emerald Built Environments

Building Area

106,000 Square Feet

Site Area

2 Acres

Parking Capacity

n/a (existing campus parking)

LEED Certification Received

Gold

Construction Schedule

Substantial Completion December 2018



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.

www.usgbc.org

202.828.7422