LEED® SILVER CERTIFIED GREEN BUILDING PROJECT PROFILE

CUYAHOGA COMMUNITY COLLEGE

LIBERAL ARTS AND TECHNOLOGY BUILDING

WESTSHORE CAMPUS, WESTLAKE, OHIO

LEED® Credits Awarded

LAT Project

WESTSHORE CAMPUS

LEED Rating System: New Construction 2009

Silver	54*
Sustainable Sites	10/26
Water Efficiency	6/10
Energy & Atmosphere	10/35
Materials & Resources	6/14
Indoor Environmental Quality	13/15
Innovation & Design	6/6
Regional Priority	3/4

*Out of 110 possible points

Achievements of project design & construction:

36% energy use savings

31% reduction in domestic water usage

89% construction waste diverted from landfill

100% reduction in landscape watering

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PROJECT BACKGROUND

Cuyahoga Community College (Tri-C®) collaborated with Moody Nolan on the design of the Westshore Liberal Arts and Technology (SLT) building. The 82,570 square foot building had a site and building construction cost of $41,000,000 and houses student services, classrooms, offices, common spaces and foodservice for the Westshore campus.

The second building on the Westshore Campus, the SLT building was certified at the Silver level under the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) system. The Westshore Liberal Arts and Technology 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 and construction elements of the SLT and indicates the number of points received out of the total credits possible within each of LEED's seven available categories.

Sustainable Site Features *10 points out of 26 possible*

- On-site stormwater management features reduce the quantity and improve the quality stormwater leaving the site.
- White roof reduces the building's heat absorption during cooling season.

Water Efficiency *6 points out of 10 possible*

- High-efficiency plumbing fixtures reduce water consumption by 31%.
- Eliminated the need for landscape watering by utilizing native plants.

Energy and Atmosphere *10 points out of 35 possible*

- 36% reduction on utilities use, reducing annual costs by approximately $30,000 a year.
- Occupancy sensors turn lights off when spaces are unoccupied.

Materials and Resources *6 points out of 14 possible*

- Use of materials from regional sources or made using recycled content reduced transportation costs, emissions, and kept money in the regional economy.
- Over 89% of construction waste diverted from landfills.

Indoor Environmental Quality *13 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 interior finishes to improve indoor air quality.
- Art installations by local artists are based on a theme of connection: interrelatedness; the connection of physical spaces; and a connection to nature and the community.

Innovation and Design Process *6 points out of 6 possible*

- Innovation points received for a green cleaning policy and program; exemplary use of regional materials; among others.

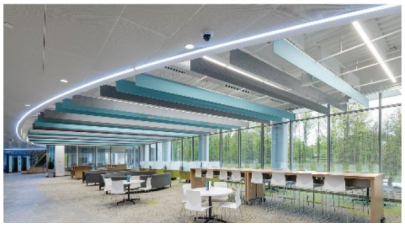
Regional Priority *3 points out of 4 possible*

- Points for stormwater design quantity and quality control and construction waste management.

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 toward 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
Moody Nolan

Structural Engineer
Barber & Hoffman

MEP Engineer
Karpinski Engineering

Landscape Designer
Knight & Stolar

Civil Engineering
Moody Engineering

Construction Manager
Donley's Inc.

Commissioning Consultant
Heapy / Technical Assurance

Building Area
82,570 Square Feet

Site Area
33 Acres

Parking Capacity
432 Spaces (surface lot)

LEED Certification Received
Silver

Construction Schedule
Completed August 2019

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

Cuyahoga Community College®