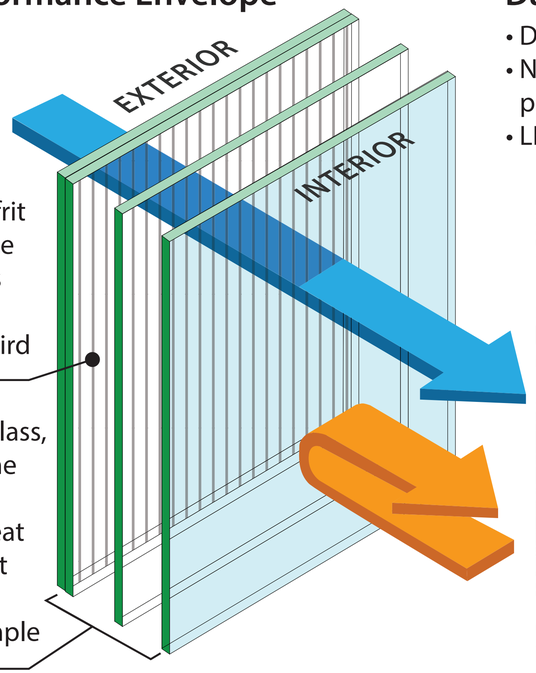
Project Description

This first floor renovation and addition project creates a signature space for the students of the College of Literature, Sciences and the Arts (LSA). The project revitalized approximately 24,000 square feet of space on the first floor of the Literature, Science, and the Arts (LSA) Building while an addition of approximately 21,000 gross square feet provides onsite resources and programs that provide opportunities for the LSA community to comfortably connect, collaborate and study. The project provides space for the LSA Opportunity Hub which helps LSA students connect their liberal arts education to their aspirations and goals by connecting them to internships and funding, alum mentors, employer engagement, and coaching. The ample daylight and flexible spaces within this new space creates an open, welcoming, vibrant and student-focused environment that encourages interaction.

LEED GOLD 2021

High Performance Envelope

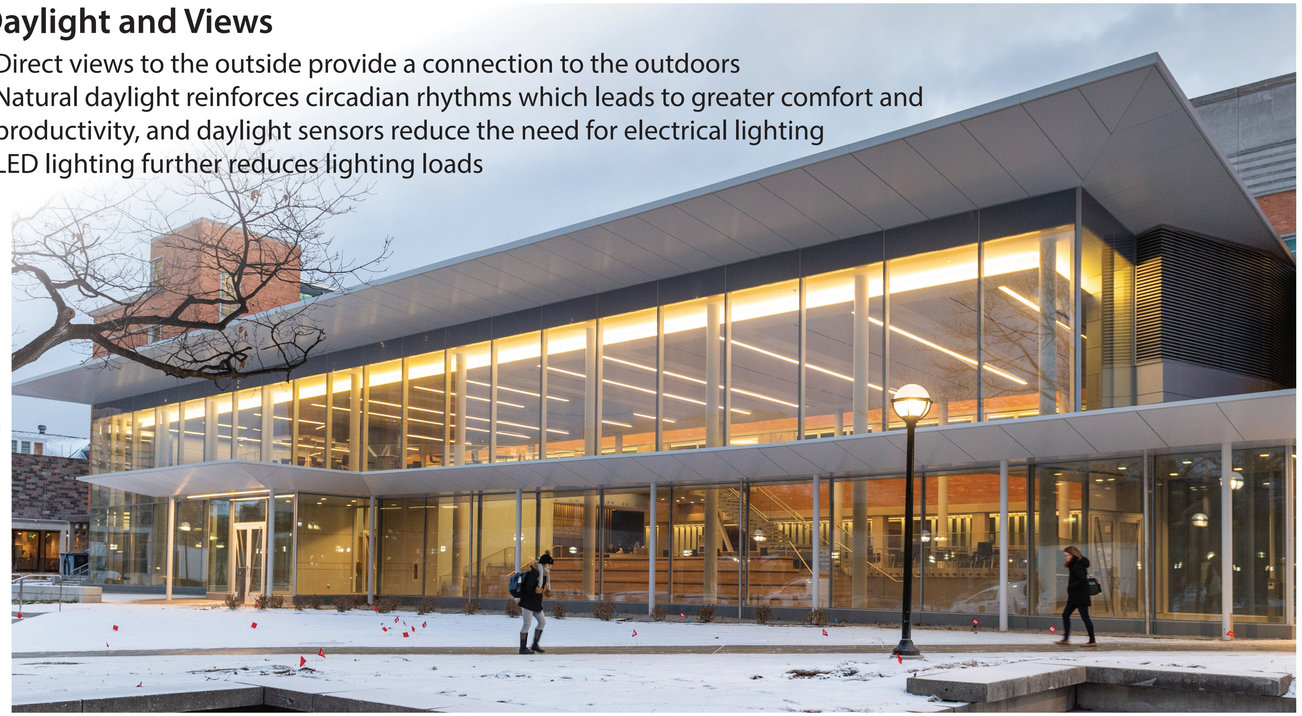


The ceramic frit pattern on the glass reduces glare, while minimizing bird collisions

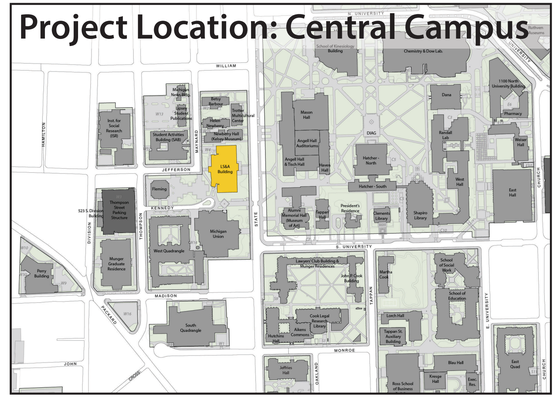
Triple pane glass, along with the frit, reduces unwanted heat gain and heat loss while providing ample daylighting

Daylight and Views

- Direct views to the outside provide a connection to the outdoors
- Natural daylight reinforces circadian rhythms which leads to greater comfort and productivity, and daylight sensors reduce the need for electrical lighting
- LED lighting further reduces lighting loads

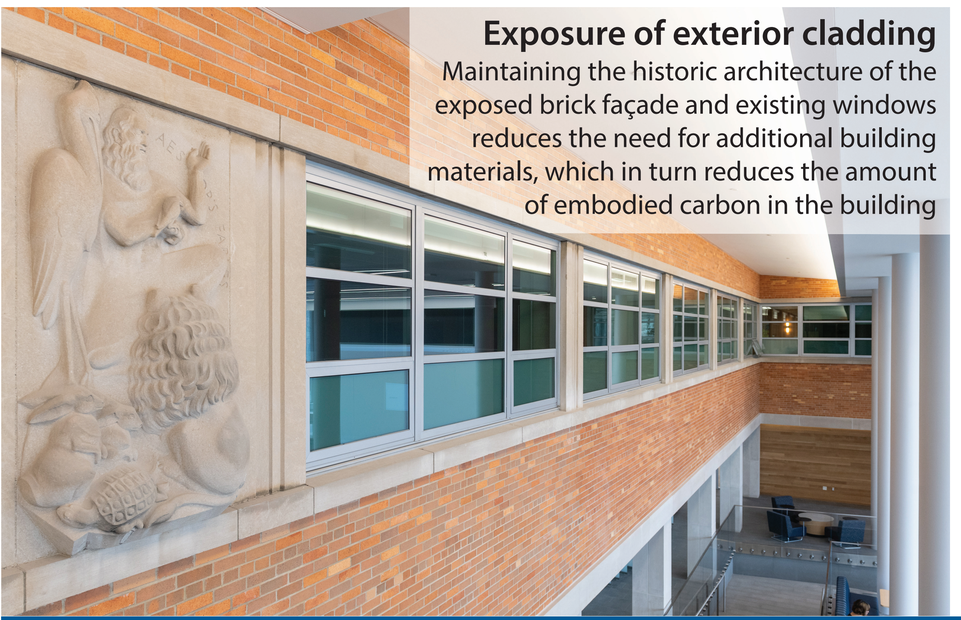


Project Location: Central Campus



Exposure of exterior cladding

Maintaining the historic architecture of the exposed brick façade and existing windows reduces the need for additional building materials, which in turn reduces the amount of embodied carbon in the building



Re-purposed trees for tables

Trees removed to accommodate construction were repurposed as tables for the space

Open Stairwell

Encourages stair use promoting occupant health and well-being while reducing the electrical demands associated with elevator use

Sustainability Facts

Literature, Science and the Arts Building Renovation and Addition (Addition Only)

Building Use	Assembly/Classroom
Location	Ann Arbor, Michigan
Size	26,320 Square Feet
Number of Occupants	120 Daily Average

LEED version	v2009
LEED certification level	Gold
ASHRAE 90.1 version	2007
Energy cost savings compared to ASHRAE baseline	34%
Total energy savings (Addition Only)	$11,686 / year
Total electrical savings	134,867 KWh / year
Total gas savings	-302 Therms / year
CO2 emissions avoided	63.9 metric tons
Construction/Demolition waste diverted from landfill	52%

Insulation (R-Value)*	Code	Project
Wall assembly - above grade	16	7
Wall assembly - below grade	8	8
Roof assembly	21	50
Glazing - Curtain wall system		
U-value**	0.35	0.16
Solar Heat Gain Coefficient (SHGC)**	0.4	0.21
Glazing - Skylights		
U-value**	1.17	0.41
Solar Heat Gain Coefficient (SHGC)**	0.49	0.15

Project Team	
Owner	University of Michigan - Literature, Sciences and Arts
Architect	SmithGroupJJR and Bohlin Cywinski Jackson
Engineer	SmithGroupJJR
Contractor	Walbridge
Commissioning Authority	U-M AEC
Project Management	U-M AEC

Design Period: 06/2016 - 02/2018

Construction Period: 11/2017 - 12/2019

* The higher the R-value the better the insulating quality

** The lower the U-value and SHGC the more energy efficient the window

planet blue
UNIVERSITY OF MICHIGAN

FACILITIES & OPERATIONS
ARCHITECTURE, ENGINEERING AND CONSTRUCTION
UNIVERSITY OF MICHIGAN

1000150
U-M Building Number

Literature, Sciences and the Arts Building Renovation and Addition

P00011569
U-M Project Number