



SageGlass®



BOWIE STATE UNIVERSITY

Bowie, Maryland, USA

CASE STUDY

CHALLENGE

Bowie State University is guided by an ongoing strategic objective to provide a welcoming and progressive learning environment for its students. When designing a new science center, university leaders sought to create a facility that reflects these priorities.

Project architects proposed a visually striking, all-glass design to create a modern and inviting feel. Distinctive features include a 6,000-square-foot commons area, glass-walled labs and classrooms in an open floor plan, and a three-story cylindrical atrium. Unfortunately, the center was located at the center of campus, a wide open area with very little shade. Mechanical blinds and aluminum sun shades were considered, but blocking exterior views would have defeated the point of the building's open design.

“The innovative design of the Center for Natural Sciences, Mathematics and Nursing provides an optimal environment for students and faculty to engage in transformational interdisciplinary learning and instruction.”

Mickey L. Burnim

Bowie State University President




SAINT-GOBAIN

Bowie State University

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SageGlass®

SOLUTION

Bowie State and architects Perkins + Will found the ideal solution by incorporating more than 25,000 square feet of electronically tintable SageGlass® into the Center for Natural Sciences, Mathematics and Nursing, including a large south-facing curtain wall.

SageGlass dynamically controls sunlight to optimize daylighting, outdoor views and interior comfort while preventing glare, fading and overheating. This helps create a more comfortable, productive learning environment conducive to collaboration and inspiration.

The dynamic glass tints on-demand, allowing professors to customize solar control for individual classrooms and labs. It also tints automatically to block sunlight on hot days and dramatically reduce energy demand in the building.

BENEFITS

Bowie State students and faculty throughout the 149,000-square-foot facility are now able to work together free from heat gain and glare in a fully daylight environment with clear exterior views.

“The state-of-the-art Center for Natural Sciences, Mathematics and Nursing will catalyze Bowie State University’s efforts to expand the use of collaborative hands-on teaching models and continue to position the University at the leading edge of innovation in STEM education and undergraduate research,” said Bowie State University President Mickey L. Burnim. “Its innovative design provides an optimal environment for students and faculty to engage in transformational interdisciplinary learning and instruction.”



The new Center for Natural Sciences, Mathematics and Nursing at Bowie State University is filled with sunlight and state-of-art touches, such as SageGlass that automatically controls sunlight, manages heat gain and provides unobstructed views of the campus.



The Beacon, a three-story cylindrical multi-story meeting area, shown here in different tint zones to demonstrate how students can experience the ideal balance between comfort and daylighting.

ARCHITECT: Perkins + Will

GLAZING CONTRACTOR: Tidewater Glazing

WHY SAGEGLASS?

The pioneer of the world’s smartest electrochromic glass, SageGlass® is the ultimate connector between the built and natural environments. SageGlass tints on demand to optimize daylight, reduce glare and manage heat – all while maintaining unobstructed views of the outdoors. With SageGlass, architects and building owners can improve occupant comfort and reduce energy demand in buildings. As a wholly owned subsidiary of Saint-Gobain, SageGlass is backed by more than 350 years of building science expertise. Learn more at www.SageGlass.com or join SageGlass on Twitter, Facebook and LinkedIn.

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