

## IN THE LAB: EXPLORING THE PERFORMANCE & MATERIAL CONSIDERATIONS OF SHADE FABRICS

### COURSE DESCRIPTION

Shading is an important piece of any sustainably-designed project. It gives the occupants of the building control of their environment from the discomfort and energy waste that can occur from glare and solar heat gain, while maintaining views and access to daylight. Understanding the basic material compositions of the majority of shading products in the market and comparing how those materials perform in terms of view-through, dimensional stability, recyclability, and fire retardancy will help designers select a shade fabric that meets the sustainable demands of a project. This course seeks to educate on these points as well as explain the impact those materials will have inside the built environment.

- **Compare material composition and production processes of yarn types used to create solar shade fabrics and how their properties aid in the product performance**
- **Identify the different testing methods used for evaluating shade fabric performance including: elongation, tensile and breaking strength, fire safety tests, dimensional stability, acoustical absorption, blackout versus glow light transmittance tests, and more**
- **Assess common shade material certifications, product transparency programs and documents, as well as understand the future of code compliance with architectural shading**
- **Evaluate specifically how common weave patterns and material composition can affect view preservation and material recyclability**

### LEARNING UNITS



AIA Course ID# K3721016  
1.00 LU/HSW Hours

**GBCI**® GBCI Course ID# 0920019933  
1.00 CE Hours



IDCEC Class Code CEU-109912  
1.00 HSW Hours

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