

## Art and Architecture Building A. Alfred Taubman Wing Project



### Project Description

The wing will consist of 37,000 gross square feet and include new studio space, faculty offices, a new classroom, student support spaces and multipurpose space for the presentation of academic projects and for events. Approximately 11,000 gross square feet of space will be renovated in the existing building, expanding studio space on the third floor and locating faculty offices adjacent to the studio space, along with updating finishes in select areas.

### Energy Efficiency Measures

- The building's design and systems include a number of energy efficient features that allow for an estimated 37% energy savings compared with an energy code compliant building as defined in ASHRAE 90.1-2007 Appendix G
- High performance glazing and increased insulation values in exterior wall assemblies for improved thermal performance
- Task lighting, energy efficient light fixtures, and the integration of natural daylight to reduce the building's electrical load
- Overall lighting power density designed to be 30% less than maximum allowable level mandated by ASHRAE standard 90.1-2007
- Occupancy sensors throughout the addition to turn off lights and HVAC when spaces are un-occupied
- Photo sensing to dim lighting in areas where ambient lighting is provided through skylights
- Displacement Ventilation to provide ventilation air to the occupant breathing zone more efficiently than typical HVAC systems

### Other Sustainability Features

- This project is LEED® certified to the Gold level and achieved 65 points under the LEED for New Construction v2009 rating system.
- Project site located near public and U-M bus routes to encourage use of public transit
- Close proximity to basic services such as banks, theaters and restaurants to encourage building occupants to walk instead of drive
- Landscaping consists of native and adaptive plantings and does not require permanent irrigation
- Designed to reduce water consumption by 40% beyond Michigan Plumbing Code; savings obtained through the use of low flow bathroom fixtures
- 79% construction waste diverted from landfill
- Low-VOC adhesives and sealants, paints and coatings, flooring systems, and composite wood and agrifiber products used inside the building
- 30% of the total building material content was extracted and manufactured within 500 miles of the project site
- 37% of the total building materials contain recycled content
- 79% wood-based building products are certified by the Forest Stewardship Council (FSC)
- 94% of all regularly occupied spaces have a direct line of sight to the outside