**ENERGY & ATMOSPHERE**

- Aims to cut overall energy use by **50%** through a high performance building envelope, low-e insulated glazing, energy recovery ventilators with dual enthalpy economizers, and using hot and chilled water from the Central Utility Plant.

- Projecting a **43%** reduction in lighting power density via occupancy sensors, daylight dimming controls, and high-efficiency LED light fixtures.

- Enhanced Commissioning ensures building systems perform as intended post-occupancy.

**INDOOR ENV. AIR QUALITY**

- Developed and implemented an Indoor Air Quality Plan during construction and before occupancy.

- Low-VOC adhesives, sealants, paints, coatings, and flooring systems.

- CO₂ sensors ensure adequate fresh air is provided to densely occupied spaces.

- Thermal comfort survey will be administered to occupants following project completion.

- **90%** of regularly used spaces have access to exterior views and natural daylight.

**INNOVATION IN DESIGN**

- **Green Housekeeping Program**

- Active green building public education programs.

**TAKE ACTION TODAY!**

- **LEARN LIVE LEAD Sustainable UMASS**

- Facilities & Campus Services: We’re here to help.

- *LEED Gold Certification Anticipated*
The $52 million, 87,500 S.F. Design Building brings together the Architecture, Landscape Architecture & Regional Planning, and Building & Construction Technology programs in one facility to promote interdisciplinary collaboration, research and learning. The goal was to create an innovative and inspired building that visibly demonstrates environmentally-sensitive design. The building’s unique cross-laminated timber (CLT) structural system reduces its carbon footprint and embodies the university’s strong commitment to sustainability.

The Design Building contains classrooms, administrative offices, studios, workshops, lab space, a café, gallery, and exhibit spaces—all organized around a central atrium. The rooftop public courtyard features native plant species and integrated seating. The project was completed in January 2017 and is currently targeting LEED Gold Certification.

### MATERIALS & RESOURCES

- Conducted a Life Cycle Assessment to demonstrate timber carbon footprint reduction
- Aiming to divert over 75% of construction wastes from landfill
- 10% of building materials contain recycled content and were extracted, processed, and manufactured regionally
- 50% of wood products are Forest Stewardship Council (FSC Certified)

### SUSTAINABLE SITES

- Drought-tolerant native plantings require minimal maintenance and no permanent irrigation methods
- Planted green roof mitigates heat island effect, promotes biodiversity, and improves stormwater quality
- Walkable to a performing arts center, library, restaurants, and other core community services
- Easy access to six campus bus stops and eleven PVTA bus lines
- Bike storage with shower and changing facilities provided onsite
- Campuswide parking policy with discounts for low-emitting and fuel-efficient vehicles

### WATER EFFICIENCY

- Anticipating a 34% reduction in potable water use via low-flow plumbing fixtures
- Rooftop vegetation utilizes drip irrigation to promote plant health and water conservation