

Tucson, AZ

Originally constructed in three phases (1936, 1948 & 1962) the historic Chemistry Building had outlived its purpose as a laboratory space and was not suitable as a 21st Century education building. The University re-envisioned the project as a collaborative classroom structure incorporating biophilic design elements throughout, blurring the lines between interior and exterior spaces. Red List materials for interior finishes were eliminated, and combined with highly efficient mechanical systems a healthy learning environment has been provided. The project is the first purpose-built collaborative classroom building on campus and will be an important cog in the heart of the University for many years to come. As the winner of ENR's Southwest Best Renovation 2023 and AIA Arizona 2023 Goodwin Collaboration Awards, the Chemistry Building is truly a demonstration of how an integrated project team can bring a historic building into the future.



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Building Science Consultants

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SUSTAINABLE STRATEGIES

- Building systems do not use any chlorofluorocarbon (CFC) based refrigerants
- Project promotes alternative forms of transportation through the building's proximity to bus and rail routes, secure on-site bike storage, and electric vehicle charging stations
- Green cleaning with non-toxic products promotes improved indoor air quality and decreased environmental impact
- Interior materials including paints, coatings, adhesives, sealants, carpeting, cabinets and furnishings have low or zero VOC's to improve indoor air quality
- Premium materials with Environmental Product Declarations (EPDs) were selected for the project
- Enhanced Commissioning procedure ensures that building systems continue to operate at peak performance

PROJECT RESULTS

- LEED** for New Construction
SILVER level achieved
- 16%** energy cost savings above ASHRAE 90.1-2010 standard
- 100%** annual energy use covered by Green Power
- 53%** reduction of potable water for irrigation
- 90%** construction & demolition waste diverted from landfill

LEED Facts

LEED for New Construction v4
Size: 89,090 SF
Certification Date: 2-21-24



POINTS ACHIEVED		54/110
	Location & Transportation	12/16
	Sustainable Sites	5/10
	Water Efficiency	1/11
	Energy & Atmosphere	18/33
	Materials & Resources	5/13
	Indoor Environmental Quality	5/16
	Innovation	5/6
	Regional Priority	3/4

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