

SCIENCE & TECHNOLOGY BUILDING AT RICHARD BLAND COLLEGE



Size: 52,000 S.F.
Budget: \$15,600,000
Bid: \$51,600,000
Completed: August 2010

As the first new academic building on the campus since the college was founded in 1960, this new three-story facility accommodates academic programs and administrative functions to better serve the growing student population. The first floor features administrative and adjunct offices, faculty offices, faculty lounge, student lounge, general classrooms, computer lab, and a lecture room. General classrooms, biology laboratories, research labs, equipment rooms, seminar rooms, and faculty offices make up the second floor with chemistry and physics labs and additional classrooms located on the third floor.

The building features high performance design elements using the LEED® Green Building Rating System version 2.2 as a guide. High performance design strategies include:

- a second story garden roof and highly-reflective roof surfaces to reduce the Heat Island Effect;
- native plants, eliminating the need for irrigation for the surrounding landscape;
- a highly-efficient HVAC system, predicted to result in over 38 percent reduction in energy use;
- HVAC equipment free of ozone-depleting CFCs, HCFCs, and Halons;
- new driving surfaces constructed from porous concrete pavement to help reduce stormwater runoff;
- low-flow lavatories, pint-flush urinals, and dual flush toilets resulting in water use reduction of over 40 percent;
- recycled content and regionally-manufactured materials;
- a permanent CO₂ monitoring system for enhanced indoor air quality and demand-controlled ventilation;
- low-emitting adhesives, sealants, paint, carpet, and composite wood materials to protect indoor air quality; and
- individual lighting controls for 90 percent, and individual comfort controls for 50 percent, of the building occupants.