university of illinois at urbana-champaign

StormwaterManagement

Green Infrastructure

Red Oak Rain Garden

Before *the rain garden, the area near Allen Hall had floods.*

After *its construction, flooding is under control.*

Professor Tony Endress' Restoration Ecology students designed and installed the Red Oak Rain Garden with assistance from Facilities & Services, the City of Urbana and Housing Services. It is a beautiful, innovative, and smart way to reduce floods and improve water quality.

BIF Green Roof

Summer

Autumn

Winter

The Business Instructional Facility (BIF) has two extensive green roofs that provide stormwater and energy savings benefits throughout the year.

The larger roof is 1200 sq ft. Researchers in Civil and Environmental Engineering are monitoring this roof's benefits.

Art + Design Link Gallery Green Roof

Art + Design students and faculty retrofitted a green roof atop the Link Gallery between the School of Art + Design and the Krannert Art Museum. It reduces energy costs and provides rainwater for the surrounding gardens. The project includes roof resurfacing, a rainwater catchment system and a modular green roof with 432 trays. The Student Sustainability Committee provided funding.

Yeh Student Center Green Roof

The Yeh Student Center addition to the Newmark Building was constructed with a "LiveRoof Standard" modular tray system. There are 2050 trays that are 4 ¼" deep and cover 3980 sq ft of roof. The vegetation mix provides continuous seasonal blooming along with energy and stormwater benefits.

Photos by Lisa Lauderdale, Tony Endress, and C. Eliana Brown

Green Infrastructure includes green roofs, permeable pavement, and rain gardens. These techniques help improve stormwater quality and flooding by delaying peak flows and filtering pollutants. In addition to their technical benefits, they can be landscape features that enhance campus aesthetics.

Stormwater Management on campus is coordinated by the Division of Safety and Compliance, Environmental Compliance Department.