

City of Lakewood SUSTAINABILITY AWARDS

2014

COMMUNITY SUSTAINABILITY AWARD IDEA Class & Aquaponics Project

Engineers for a Sustainable World



The chapter of Engineers for a Sustainable World at Red Rocks Community College designed an Aquaponic system in the school greenhouse to grow plants that maximize production in a small space, conserve water, and don't require any pesticides.

The Aquaponics project "grew" out of the Introduction to Design and Engineering Applications (IDEA) class, a partnership between the Red Rocks Institute for Sustainability in Education and the Colorado School of Mines that allows students to get hands-on learning experiences. This innovative project was accomplished through collaboration among various departments on campus that assisted with the design and construction. The project also allows the biology and botany classes to conduct research, and the produce grown is donated to the school cafeteria. The result has been a unifying interest in sustainability around the Red Rocks campus.

Project Achievement Area

- Green Design
- Waste Reduction and Recycling
- Community Health & Engagement
- Economic Sustainability

