

# Sustainable Design

## Providing Healthy and Wholesome Food from the Ground Up - Cuarto Dining Mission Statement



### INNOVATION FACTS

- Locally grown food
- Sustainably grown food
- Nutritional labeling
- Organic waste diversion
- Education program
- Green cleaning



### SUSTAINABLE SITES

- Community proximity
- Public transportation access
- Bicycle parking
- Reflective roofing material
- Solar thermal panels



### WATER

- High efficiency fixtures: 40%
- Self-cleaning faucets
- High efficiency showers
- High efficiency landscaping



### ENERGY & ATMOSPHERE

- Increased natural light
- Increased lighting control
- Efficient HVAC equipment
- Optimize energy performance
- No CFC-based refrigerants



### MATERIALS & RESOURCES

- Building interior reuse
- Recycled content materials
- Rapidly renewable resources
- FSC certified wood products
- Recycled content furniture
- Furniture reuse
- Construction waste management



### INDOOR ENVIRONMENTAL QUALITY

- Low-emitting finishes
- Thermal comfort monitoring
- Outside air delivery monitoring
- Pollutant source control

## What is LEED?

Leadership in Energy and Environmental Design, LEED, is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all metrics that matter most: energy savings, water efficiency, CO<sub>2</sub> emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.



## LEED at UC Davis

UC Davis celebrates a long-term commitment to environmental, economic and social sustainability. We use our strengths in teaching, research and public service to address society's most pressing problems. Ideas that start on campus - powered by faculty, students and staff - transform the world.



### SUSTAINABLE SITES

- Previously developed site
- Community connectivity
- Public transportation access
- Bicycle parking
- No additional parking added
- Bioswales
- Pervious and reflective concrete
- Reflective roofing material



### WATER EFFICIENCY

- High efficiency fixtures designed to reduce potable water use by 31%
- Irrigation controls designed to reduce potable water use for irrigation by 55%
- Indigenous landscaping



### ENERGY & ATMOSPHERE

- Optimized energy performance / Energy cost savings of 31%
- Efficient HVAC equipment
- Efficient LED lighting



### INNOVATION & DESIGN

- An active sustainability educational program



### MATERIALS & RESOURCES

- Comprehensive waste diversion plan
- 97% of construction waste diverted from landfills.



### INDOOR ENVIRONMENTAL QUALITY

- Implemented an Indoor Air Quality Plan during construction
- Implemented an Indoor Air Quality Plan prior to occupancy
- Products with little or no VOC's (Volatile Organic Compounds) to enhance the indoor air quality.
- Walk off mats at building entrances to limit pollutants coming inside.
- Residents have control over lighting, operable windows and thermostats with an energy efficient range setting. All occupied spaces provide a view to the outdoors.

## LEED at UC Davis

UC Davis celebrates a long-term commitment to environmental, economic and social sustainability. We use our strengths in teaching, research and public service to address society's most pressing problems. Ideas that start on campus - powered by faculty, students and staff - transform the world.



## What is LEED?

Leadership in Energy and Environmental Design, LEED, is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.



## SUSTAINABLE SITES

- Previously developed site
- Community proximity
- Public transportation access
- Bicycle parking
- No additional parking added
- Bioswales
- Pervious and reflective concrete
- Reflective roofing material



## WATER EFFICIENCY

- Water use reduction 34%
- High efficiency fixtures
- Indigenous landscaping



## ENERGY & ATMOSPHERE

- Optimized energy performance / Energy Savings of 51%
- Efficient HVAC equipment
- Efficient lighting
- No CFC-based refrigerants



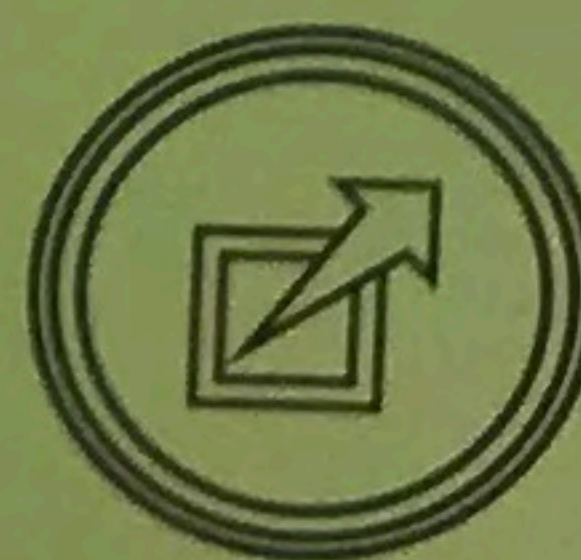
## MATERIALS & RESOURCES

- Construction waste diverted from landfills: 95%
- Recycled content materials
- Regionally sourced materials



## INDOOR ENVIRONMENTAL QUALITY

- Implemented an Indoor Air Quality Plan during construction
- Implemented an Indoor Air Quality Plan prior to occupancy
- Products with little or no VOC's (Volatile Organic Compounds) to enhance the indoor air quality
- Walk off mats at building entrances to limit pollutants coming inside
- Residents have control over lighting, operable windows and thermostats with an energy efficient range setting
- All occupied spaces provide a view to the outdoors



## INNOVATION & DESIGN

- Implemented a green cleaning policy
- Task lighting provided at each resident's desk
- Furnishings that meet industry green standards
- Active sustainability educational program

this tree  
gives back

\$ 208

CO<sub>2</sub> reduced: 990 lbs

Energy saved: 398 kWh

Per Year!



TABLE 8 COAST REDWOOD



this tree  
has seen

**90** PAJAMARINO  
CELEBRATIONS

**42** YRS OF FARMERS  
MARKETS

**36** MAYORS

UC Davis cch Tree

trees need  
**WATER**

UC Davis cch Tree

UC DAVIS

trees need  
**SPACE**

UC Davis cch Tree

UC DAVIS

did you know  
TREES IMPROVE  
**Environmental  
Health**

UC Davis cch Tree



trees need  
**MULCH**

Mulch insulates soil and prevents Leptospira from  
entering temperatures and contamination, and  
prevents erosion. Mulch also helps retain  
moisture and prevents weeds.

did you know  
**California scrub jays**  
are responsible for planting many of  
**the oaks**  
in the arboretum and  
public garden

**UC DAVIS**



trees need  
**MULCH**

Mulch insulates soil and prevents Leptospira from  
entering temperatures and contamination, and  
prevents erosion. Mulch also helps retain  
moisture and prevents weeds.

did you know  
**California scrub jays**  
are responsible for planting many of  
**the oaks**  
in the arboretum and  
public garden

# Please, celebrate with care!



## *Duck Confession #3*

I don't mean to, but sometimes I eat confetti, and it's no party.

**The Arboretum Waterway** provides habitat to 169 different species of birds and invertebrates, some of which are threatened. Please consider the health and safety of these species before celebrating with confetti.

**Congratulations Class of 2017!**

(530) 752-4880  
[arboretum.ucdavis.edu](http://arboretum.ucdavis.edu)

UCDAVIS



ARBORETUM AND  
PUBLIC GARDEN

# Why are the fountains off?



**Water is a valuable natural resource** that, right now in California, is in short supply. Throughout campus, UC Davis is working towards cutting back its water use wherever possible. For our Arboretum and Public Garden team, this includes decreasing irrigation to little-used lawn areas, improving our grounds with even more examples of waterwise, sustainable landscapes, and turning off our fountains. Although our campus water features recirculate and the water lost to evaporation is minimal, we are taking this opportunity to contribute to campus water-saving measures while calling attention to our state's drought condition.

For more ideas on ways you can save water in your landscape visit us at [arboretum.ucdavis.edu](http://arboretum.ucdavis.edu).



# What's happening here?



**Water quality is important for people and fish.** Working with UC Davis' Environmental Health and Safety, we installed native grass seed and erosion control fabric on bare slopes along the Arboretum waterway to prevent soil erosion into the waterway. The fabric will hold the soil in place temporarily as the grasses establish. All the erosion control elements are made using biodegradable materials, which will further enrich the soil over time. Look for grasses poking through the fabric after the start of winter rains. Native grasses include Purple Needlegrass, Creeping Wildrye, and Blue Wildrye.

(530) 752-4880 [arboretum.ucdavis.edu](http://arboretum.ucdavis.edu)



# This lawn now receives 50% less water



## Why is this lawn still green?

In high-use lawn areas like this, our campus Grounds and Landscape Services teams are incorporating a non-toxic, biodegradable product that keeps soil moisture higher for longer periods of time. That's why this grass is staying green despite receiving half the water it has in the past.

Reducing our irrigation is one of the ways our campus has already reduced its landscape water use by over 30%—well ahead of Governor Brown's 25% reduction mandate. But, our work is not done; we're continuing to implement conservation efforts across campus.

Email your water-saving ideas to:  
[savewater@ucdavis.edu](mailto:savewater@ucdavis.edu)

(530) 752-4880  
[arboretum.ucdavis.edu](http://arboretum.ucdavis.edu)

UCDAVIS



ARBORETUM AND  
PUBLIC GARDEN

# Why are the fountains off?



**Water is a valuable natural resource** that, right now in California, is in short supply. Throughout campus, UC Davis is working towards cutting back its water use wherever possible. For our Arboretum and Public Garden team, this includes decreasing irrigation to little-used lawn areas, improving our grounds with even more examples of waterwise, sustainable landscapes, and turning off our fountains. Although our campus water features recirculate and the water lost to evaporation is minimal, we are taking this opportunity to contribute to campus water-saving measures while calling attention to our state's drought condition.

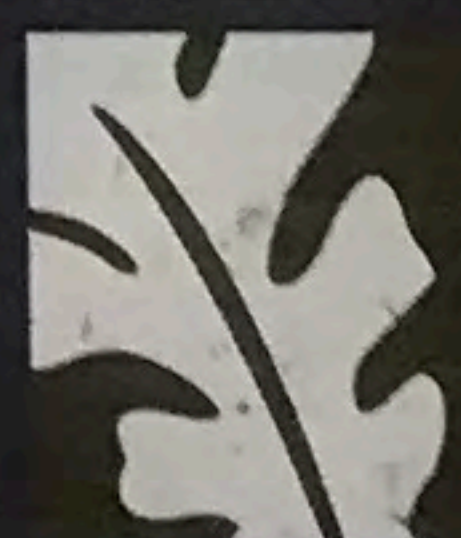
For more ideas on ways you can save water in your landscape visit us at [arboretum.ucdavis.edu](http://arboretum.ucdavis.edu).



# TREE WORK IN PROGRESS

We love our trees and manage a robust, campuswide program to maintain and expand our urban forest. The work we perform on trees includes assessing and treating health issues, pruning and shaping to improve appearance and long-term viability, and lastly, removal, most often when safety is a concern.

UCDAVIS



ARBORETUM AND  
PUBLIC GARDEN

If you have concerns or questions, please let us know.

[arboretum@ucdavis.edu](mailto:arboretum@ucdavis.edu) | [arboretum.ucdavis.edu](http://arboretum.ucdavis.edu)



# LANDFILL

Plastic Utensils,  
Straws and Juice  
Cartons



Plastic Bags,  
Wrappers  
and Gloves



Expanded  
Polystyrene Foam  
Cups and Containers





# PAPER

## Paperboard

(no plastic film and bags)



## Mixed Paper



No bubble wrap mailers,  
food containers, paper  
cups, cardboard

(break down boxes and place  
next to recycle bins)





# COMPOST

Solid and Liquid  
Food Waste



Food-Soiled or  
Waxed Paper  
and Cardboard



Compostable Plastic  
and Wood Items





# CONTAINERS

## Metal Containers and Aluminum Foil

(no scrap metal)



## Glass Containers

(no Pyrex)



## Plastic Containers

(no bags, film, or bubble wrap)  
#1 and #2 Plastics accepted.  
Contact us or check our website below for other  
plastics recycling information.





**health  
happens  
here**  
**at UCDAVIS**



**Stay Hydrated**

**Start each day with a full water bottle.**

[healthhappenshere.ucdavis.edu](http://healthhappenshere.ucdavis.edu)



**SAVE  
WATER**



REPORT LEAKS TO  
**(530) 752-1655**

**UCDAVIS**

# Get Involved with Sustainability

## Sign up for our newsletter

- Written by students, for students
- Updates on sustainability events, job & volunteer opportunities, and sustainable living tips

## Volunteer at the Resident Garden @ Segundo

- Weekly open volunteer hours
- Adopt your own plot
- No experience necessary

## Become a sustainability champion

- Promote sustainability in your Res Hall
- Meet new people
- Get a free T-shirt and other incentives for participating

Email [sustainablehousing@ucdavis.edu](mailto:sustainablehousing@ucdavis.edu) to sign up or learn more

**UC DAVIS**  
STUDENT HOUSING  
AND DINING SERVICES