

2012

Blueprint for a Sustainable Campus



Compiled by the
Student Environmental Center

<http://sec.enviroslug.org>





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EXECUTIVE SUMMARY

Blueprint for a Sustainable Campus 2012

The Blueprint for a Sustainable Campus was created eleven years ago through the Student Environmental Center as an outlet to document the visions of students for the future of sustainable growth at UC Santa Cruz. This multi-use, living document- rewritten yearly- strives to encompass the current visions of students, staff, faculty, and community members who have gathered together over to compile this information intending to reach a shared goal of an environmentally sustainable campus. The purpose of the Blueprint is to serve as both a resource and a guide for the campus community, and can be utilized as a launching point for student-initiated projects. It is the desire of the Student Environmental Center that the Blueprint will encourage students to become active members in the campus community and to take part in the experiential component of sustainability work.

While the Blueprint reflects no commitments from university administration, the process through which it has been compiled displays multiple points of collaboration throughout the campus and community. The first eight sections of the Blueprint include Visions and Action Steps meant to build upon the goals laid out in the Campus Sustainability Plan, while the final two sections (Social & Environmental Justice and Academics & Curriculum) have been included because of their critical importance to the student body and relevance to projects undertaken by student organizations.

It is a distinct pleasure for the Student Environmental Center to present the collective visions of our campus and community members in the 2012 Blueprint for a Sustainable Campus. We thank you for reading and sharing in the evolution of the UC Santa Cruz sustainability movement.

Funding for Student Projects

Amongst other funding bodies, UC Santa Cruz's Campus Sustainability Council (CSC) provides funding to student organizations for sustainability related projects and campaigns. It is required that all organizations prove a direct relation between their proposed project and one or more topics encompassed in the Blueprint. While a wide range of project ideas are mentioned in this document, there are still a multitude of options that have yet to be explored. Student organizations are encouraged to refer to the "Visions and Actions" segments of each topic for ideas and inspiration. The Campus Sustainability Council holds two funding rounds each year, one in winter and one in spring. Grant proposal trainings and workshops are offered in the weeks leading up to a funding round, so it is important to plan ahead. Visit csc.envirolug.org for more information!

In addition to the Campus Sustainability Council, there are many other funding opportunities for UCSC students interested in furthering our progress. These include, but are not limited to, Measure 43 (The Sustainable Food, Health and Wellness Initiative) and the Carbon Fund. For more information on Measure 43, visit casfs.ucsc.edu/farm-to-college/measure-43-opportunities-2, and for more information on the Carbon Fund, visit <http://sustainability-dev.ucsc.edu/carbon-fund>.

Recurring Visions and Actions

- Sustainability EDU (like Alcohol EDU)
- On campus composting systems
- RA sustainability trainings (uniform for all colleges)
- RA's teach incoming freshman about UCSC's standards and progress in sustainability
- Increased awareness of project clearing house
- More GE credit classes that pertain to environmental/ sustainability topics
- Increased administrative and academic collaboration
- Increased staff and faculty collaboration
- A garden at every college!
- More ballot initiatives and funding opportunities



INTRODUCTION

Blueprint Breakout Discussions

Although previously hosted at the Annual Campus Earth Summit, this year topic group discussions were held as separate events leading up to the Earth Summit. This allowed for greater outreach potential and thus, increased inclusion and participation in the revision process. Five Blueprint Breakout discussions were held in the fall and winter quarters and attendance was nearly 250 people total. For each topic, group facilitators posed the following questions for discussion:

- ☐ What is exciting?
- ☐ What is challenging?
- ☐ What are our visions for the year 2020?
- ☐ What action steps can we take to meet these visions?

The compilation of the notes from these discussions, in addition to the feedback received at the Earth Summit, is presented in this document.

The 11th Annual Campus Earth Summit: Sprout!

On March 3rd, 2012, nearly 450 members of the campus community came together to celebrate sustainability at UCSC and further the discussions from the Blueprint Breakouts. Some highlights from the 2012 Earth Summit include keynote speaker Eric Holt-Giménez (Director of Food First in Oakland); guest speaker and Mayor of Santa Cruz Don Lane; nearly 20 campus organizations with interactive tables; ten student led workshops pertaining to various Blueprint topics; live music provided by the North Pacific String Band; and fresh, local food from vendors including Alfresco, India Joze, Wild Iris, Redwood Pizzeria, Kombucha Botanica, and CAN Coffee. This event was Zero-Waste and diverted 32 pounds of waste from the landfill.

Relevant Policies

The policies, commitments, and university strategies described in this section are of great importance for the UCSC sustainability movement, and are key considerations when evaluating project and campaign ideas. While the Blueprint for a Sustainable Campus reflects no commitments from university administration, the ideas and goals contained within are often shaped, strengthened, or even challenged by official university commitments. It is the hope of the Student Environmental Center that this information can be used to assist members of the campus community in learning about and engaging with action for sustainability.

Policies

- Long-Range Development Plan (2005): Provides a framework for the physical development of the UCSC Campus through 2020. ucsc.edu/lrdp
- Comprehensive Settlement Agreement (2008): Agreement between the university, city, and county that identifies policies for traffic, water use, and housing while allowing UCSC to proceed with growth. ucsc.edu/lrdp/comprehensive-settlement.shtml
- UC Policy on Sustainable Practices (2009): Outlines methods for improving environmental performance throughout the entire UC system. universityofcalifornia.edu/sustainability

Commitments

- Climate Action Compact (2007): Collaborative plan for the university, city, and county to reduce greenhouse gas emissions. cityofsantacruz.com/index.aspx?page=1231
- American College & University Presidents' Climate Commitment (2007): Signed by nearly 700 colleges and universities, the ACUPCC is a commitment to take action for climate protection. presidentsclimatecommitment.org

University Strategies

- UCSC Climate Action Plan (2010): Outlines how UCSC will comply with climate-related targets contained in the UC Policy, Climate Action Compact, and ACUPCC. sustainability.ucsc.edu
- Campus Sustainability Plan 1.5 (2011-13): Proposes ambitious but achievable goals to streamline efforts and improve efficiency at UCSC. sustainability.ucsc.edu
 - Revision of CSP to take place in the 2012-12 school year
 - To get involved: email sustain@ucsc.edu



GREEN BUILDING & FACILITIES

UCSC History

- UCSC strives to sustain the natural environment while building, maintaining and operating nearly six million gross square feet of housing, academic, administrative, research, and recreational space at multiple locations
- By following and taking into account sustainable building practices, energy efficiency guidelines, State regulations, and partnerships with utility providers, the campus has become and continues to progress and improve its green building performance
- UCSC has been one of the most energy efficient University of California campuses per maintained gross square foot since 1995.
- Engineering 2 was first LEED for existing buildings on campus (LEED-EB)
- The Cowell Student Health Center was the first LEED-Gold building on campus
- Porter House B received LEED-Silver
- All new construction must be LEED-Silver or equivalent, and endeavor to attain LEED-Gold

Programs at UCSC

- Student Environmental Center Green Building Campaign: sec.envirolug.org/green-building.html
- ENVS 145-Green Building Class will be offered in Spring 2013

Current Interest

Excitement

- Students initiated referendum for funding of LEED certification for Cowell Health Center

- Incorporate idea of living garden into dorms
- Green building incorporates many aspects of sustainability including water, energy and food
- Green building has more credibility and is more institutionalized on campus because of student and staff collaboration

Challenges

- Collaboration - connecting the people who construct the building with those who use the building
- Discouraged about energy put into buildings, and the day-to-day operations are consistently cutting budgets in other places
- Building while keeping the surrounding ecosystem in mind
- Affordability of green building practices

2020 Visions & Actions:

- Zero net emissions for all new buildings
- The campus is more informed about how and why projects are built on campus and can provide input to the LRDP
 - ☐ The LRDP is better communicated to the campus
 - ☐ Create more chances for those who use the buildings to communicate with those who build them
 - ☐ Student internships and work positions are available in these areas
 - ☐ More green building classes to educate students
- Building up rather than building out - UCSC has greater use density
 - ☐ Fewer buildings
 - ☐ Upgrade fixtures and buildings first before expanding/doing new construction
 - ☐ Use the Quarry plaza amphitheater
- Build sustainably because we have the technology
 - ☐ LED lighting
 - ☐ Recycled tire/earth insulation
 - ☐ Straw bale construction
 - ☐ All campus offices are certified green
 - ☐ Eco-charettes for every building
- UCSC has examples of regenerative buildings
 - ☐ Rooftop garden for dining, residential, and other facilities
 - ☐ Plants that filter air pollution indoors
 - ☐ Green walls and lots of windows
 - ☐ Rain water catchment

- Food production is integrated into dorm buildings
 - ☐ Indoor/outdoor dining hall kitchen area—use garden products there
 - ☐ Dorms have living gardens
 - ☐ Leach waste fertilizing garden
- Dorms reduce overall energy
 - ☐ Hand wash laundry/hang dry lines
 - ☐ Thermal energy/ventilation to make more energy efficient
 - ☐ Solar energy from roof tops
- There is covered bike storage at all the dorms
 - ☐ Rooftop gardens on top
 - ☐ Solar light fixtures
- The campus uses sustainable toilets
 - ☐ Low flow toilets
 - ☐ Compost toilets
- The campus uses passive solar lighting
 - ☐ Top down incline for max sunlight
 - ☐ The campus integrates more alternative design features
 - ☐ Suspension bridges from dorms direct to buildings interconnected
 - ☐ Quad and energy from merry-go-round
 - ☐ Diamond structure classroom
 - ☐ Like the ideas of circles, think redwood rings
 - ☐ Redwoods are kept in dining areas and playgrounds
 - ☐ Mobile walls
 - ☐ Gardens integrated into buildings
 - ☐ Combine sculpture, music, and human powered forms of entertainment
- Create more places for outdoor meetings and classes
- More metering and retrofits to existing buildings
- Additional trailer park on campus
- More educational opportunities
 - ☐ Bring green building speakers to events and classes
- More student led green building and energy retrofit projects
 - ☐ Have check-ins with all green building groups on campus every quarter
- Ensure that construction waste is salvaged for reuse
 - ☐ Area for storage of materials
 - ☐ Database to let people know what is available and can be reused



ENERGY

UCSC History

- The UC Policy on Sustainable Practices and the Climate Action Compact, and the American Colleges and Universities Presidents' Climate Commitment are commitments the campus has made in order to mandate progress
- The UC Policy on Sustainable Practices (UC Policy) directly promotes energy efficiency using the Leadership in Energy Efficiency Design (LEED) system for green building
- UCSC energy services staff regularly develops, maintains, and implements a portfolio of potential energy efficiency measures
- Many efforts have been made to improve the electricity use on campus. 100% of UCSC's campus electrical load comes directly or indirectly from renewable sources. The campus currently generates one-third of its electrical load on-site through two combined heat and power plants
- The UCSC campus has a "no cooling for comfort" policy in new and existing buildings. Cooling equipment is limited to areas with high heat loads
- Energy efficiency measures have saved 2,995,000 kWh annually since 2000, reducing CO₂-equivalent emissions by 1,585 tons each year
- UCSC contributed the lowest Greenhouse Gas (GHG) emissions per Gross Square Foot (GSF) of any UC campus in 2008
- Ballot Measure 44 (2010): Addendum to Renewable Energy Credit Purchases

Programs at UCSC

- Green Campus Program: ucscgreencampus.com
- Climate Action Team: <http://sustainability.ucsc.edu/plans-reports/climate-action-plan>

Current Interest

Excitement

- On-site renewable energy – students want it
- More collective planning to reduce energy
- Bring companies in to do energy projects – renewable energy, etc.
- Increased energy research on campus – renewables/efficiency
- Some bathrooms have motion sensor lights and most have low flow toilets
- McHenry Library built to be highly energy efficient
- Green campus received free strips from PG&E to reduce phantom power
- UC system buying renewable sources
- Carbon Fund was a student measure

Challenges

- Physical layout of campus- solar power requires sufficient sunlight
- In-room energy usage lacks incentives to turn off lights, etc. - perhaps each department could be allotted a budget to incentivize power saving settings
- Difficult to get access to information about dorm energy usage

2020 Visions & Actions

- Increasing transparency and accountability for behavior on campus.
 - ☐ Raise awareness in the form of excitement and encouragement for sustainability
 - ☐ Make energy usage VISIBLE!
- Renewable energy campus movement!
 - ☐ Make our efforts PUBLIC to increase likelihood that funding will come for our capital investments
- Increase focus on retrofits as a short-term means to avoid bureaucratic slowdown on long-term projects
- Increased energy research on campus – renewables/efficiency
 - ☐ Look into a bond investment system at UCSC to encourage energy efficiency projects – the medical department of UCSF has such a system. This can go towards new green construction, renewable energy infrastructure, research etc.

ENERGY CONTINUED

- ☐ Research Current Integration Procedures for campus fuel switchability
- Hydropower on campus – micro hydropower installation and usage
- LED streetlights on campus with solar panels that create enough charge for nighttime usage
- Motion –sensor light switches everywhere on campus; both State and Live-in buildings
 - ☐ Bi-level lighting sensors (retrofit 80% of existing lights)
 - ☐ Would make sure lights are not kept on overnight in classrooms when no one is there
- Water Catchment/Grey-water treatment system on-site
- Increase installment of solar panels/solar paint dots including panels over parking lots
- Electric vehicle infrastructure
 - ☐ Charging stations in parking lots powered by solar panels
 - ☐ Solar charged electric power strip to plug in E-bikes at bike racks
- Zero net energy waste by 2020
 - ☐ Bus system energy audit
- Wind turbines at Lick Observatory and Long Marine Lab
- Building codes include LEED certification policy
- All windows on campus dual pane
- Self timers to regulate energy usage
 - ☐ Timers on showers (15 minutes max)
 - ☐ Timers on electronics
 - ☐ Using ID cards to turn on lights to track energy usage in dorms
- Live campus metering of natural gases and electricity
- Lucid design dashboards for all the residence halls
 - ☐ Would spur energy saving competition and raise awareness
- Energy producing treadmills for OPERS
- Solar hot water heaters in dorms
- Make LED lights mandatory for all new construction projects
- Solar PV/Thermal on Stevenson Apartments
- Turn off power strips
- Invest in regenerative energy
- Revolving loan fund to fund energy efficient projects



FOOD SYSTEMS

UCSC History

- Center for Agroecology and Sustainable Food Systems was created in the 1970's when students started skipping class in order to work at the Chadwick Garden. Administrators institutionalized it in order to get students back in class.
- The 2004 transition to self-operated dining services from SODEXO offered the opportunity for dining staff and the Food Systems Working Group to work with students, staff, faculty, farmers, and members. This collaboration has enabled an increase in organic, fair trade, and sustainable foods to be brought to campus and created an opportunity to educate the broader community.
- Many UCSC Dining Services are green certified by the City of Santa Cruz and Monterey Green Business Program.
- Introduction of 'Meatless Mondays', 'Farm Fridays', and other innovative Dining Services initiatives, UCSC seeks to reduce meat purchases by 10%.
- In the spring of 2010, UC Santa Cruz undergraduate students voted to institute a new student fee to fund Measure 43, the Sustainable Food, Health and Wellness Initiative. Over \$100,000 a year is generated and then administered by the Center for Agroecology & Sustainable Food Systems in conjunction with student and faculty representatives in order to improve the campus.

Programs at UCSC

- Center for Agroecology and Sustainable Food Systems: casfs.ucsc.edu
- Program In Community & Agroecology: ucscpica.org

FOOD SYSTEMS CONTINUED

- Food Systems Working Group: casfs.ucsc.edu/farm-to-college
- Students for Organic Solutions: sec.envirolug.org/students-for-organic-solutions.html
- Gardener's Alliance Gatherings
- College Eight Garden Internship Course (CLEI 90)
- Oakes Garden Course (OAKS 63)
- Kresge Garden Courses (KRSG 65 and KRSG 63)
- Stevenson Garden Course (STEV 16)
- Community Agroecology Network: www.canunite.org
- Life Lab Science Program: lifelab.org
- Kresge Food Co-op: kresge.ucsc.edu/commlife/food.shtml

Current Interest:

Excitement

- Cooperative dining service that is interested in promoting sustainability and complying with student requests and projects
- Numerous classes and labs provide opportunities to learn about food in a hands-on setting
- Local, organic emphasis
- Student involvement in the creation of a sustainable food system
- Goal of having a garden in each residential college
- Composting programs at the dining halls and gardens
- Some dining hall food grown on-campus: Farm Fridays
- The Real Food commitment we made for 2020 increased from 20% to 40%
- Voted most vegan-friendly school 2012

Challenges

- Knowledgeable consumer base (e.g. shopping at Farmers Market; signing up for a CSA) and about existing resources
- Lack of student empowerment in relation to creating change-UC responsiveness to student desires
- Getting people excited about Meatless Mondays
- Difficulty of starting a new garden
- Fairness in labor practices
- Inaccurate labeling at cafes on campus
- Most compost gets hauled to Marina Landfill because there is not enough on-campus capacity

2020 Visions & Actions

- Campus groups are regularly updated on what is happening as related to food systems
 - Increase frequency and clarity of communication between staff and students
 - Develop a Green chef camp where UCSC dining chefs are trained on sustainable cooking choices
- Create a strong campus/community network with local farms
- Have a regular Farmers Market on campus (in the works!)
 - Encouraging all SOAR orgs to buy the on campus Farmers Market
 - Outreach to orgs using tokens to buy food from the Farmers Market
- Have different vendors for sister colleges
 - Find student to be on RFP (Request for Proposal) Committee for the prime food vendor contract.
 - Have a RFP contract by end of July developed through a committee
- Reduce the amount of meat purchased by dining services
- Develop an educational awareness program about the effects of meat consumption
 - Have Meatless Mondays at every dining hall
 - Develop a system to assess and improve the quality of vegetarian/vegan choices in the dining halls
 - Develop positive social marketing tactics to promote vegetarianism
 - Increase the amount of sustainably raised meat in the dining halls
- Create a fair labor movement on campus
 - Educating about staff conditions on campus and in businesses we support
- Have dining services purchase Cage-Free eggs
- Increase capacity and use of the composting system on campus
 - Complete green certification of all remaining UCSC Dining facilities
- Have a fully functioning campus-wide garden system
- Develop more garden courses and student coordinator positions
 - Ensure that the dorms have kitchen space where students can prepare home grown food from the gardens
 - Develop a walkabout tour focused on gardens and food systems to act as a crash course for new students
 - Remove unnecessary lawns (Food not Lawns!)
 - Garden tours as a part of orientation week for freshmen
 - Connect with food served in dinning halls that is grown on campus
 - Each college provides a hands-on learning garden site

FOOD SYSTEMS CONTINUED

- ☐ Expand and create gardens for every college
- ☐ Rooftop gardens
- ☐ During the first quarter a student attends, require student participation to grow/pick/do a couple work hours a week
- Dining services will serve 100% organic/local/sustainable/"real" food
 - ☐ Hold Farm Fridays at every dining hall
 - ☐ Develop a new decision making system that takes into account the budgetary concerns, social equality, and sustainability of products
 - ☐ Have a student/staff committee meeting to discuss options and make decisions about sustainable food production
 - ☐ Complete green certification of all remaining UCSC Dining facilities
 - ☐ Buy more sustainable and grass-fed meats
 - ☐ More sustainable meatless and protein options
 - ☐ No artificial ingredients and No preservatives
 - ☐ Feature more in season fruits and vegetables from local markets
 - ☐ In both salad bars and prepared food sections
 - ☐ Let students know what is in season and what farm it came from
 - ☐ Provide labelling on all products--not just nutritional information but the provenance (which farm, region, etc product is from), carbon footprint involved in procurement, show which produce comes from campus farm, and information about cruelty to animals when needed (i.e. if free range or cage-free)
- Phase in self-operated (or at least sustainable procurement practices) in all coffee shops and cafes on campus
 - ☐ All contracted and self-operated food service facilities are certified green
- Student kitchens in dorms
 - ☐ Create cooking classes (especially for first years)
- The student population will be aware of how their food is produced, why sustainable food production is important, and what the efforts on campus are
 - ☐ Ensure that food systems and sustainable food options are included in core class curricula
 - ☐ Use visuals to demonstrate the importance of sustainable practices in food production
 - ☐ Have more ESLP classes on food (such as sprouting, permaculture systems, or food culture)



LAND, HABITAT, & WATERSHED

UCSC History

- The result of past natural resource extraction and university build-out has caused habitat destruction, invasion of non-native species, and soil erosion. However, the UCSC Site Stewardship Program runs a number of programs to monitor the effectiveness of management practices, remove invasive plants and restore native species, and alleviate the effects of erosion.
- Campus land is utilized for educational purposes, such as labs and other outdoor programs
- Campus has diverse vegetation ranging from grasslands and chaparral to mixed evergreen forest, all within 4 distinct watersheds.

Programs at UCSC

- UCSC Site Stewardship Program: ucscplant.ucsc.edu/ucscplant/Grounds/index.jsp?page=Stewardship_Program
- UCSC Natural Reserves: ucreserve.ucsc.edu
- Thimann Greenhouse: greenhouse.ucsc.edu/research.html
- Museum of Natural History: <http://mnhc.ucsc.edu/>
- Arboretum: <http://arboretum.ucsc.edu/>
- Physical Plant: <http://ucscplant.ucsc.edu/ucscplant/index.jsp>
- Land, Habitat, and Watershed working group: <http://sustainability-dev.ucsc.edu/sustainability-topic/land-habitat-watershed>

LAND, HABITAT, & WATERSHED CONTINUED

Current Interest

Excitement

- UCSC campus provides opportunities for outdoor classrooms
 - ☐ Try to meld some of these courses, so that professors understand what is outside their classroom (in terms of the environment) can be used to create a more collaborative teaching setting
 - ☐ Opportunity to connect resources and provide interdisciplinary learning
 - ☐ Classes can be made more interesting for students, leading to more involvement with their surroundings
- Internship opportunities focused around native plant restoration, erosion control, etc.
- Research facilities on campus: opportunities for fieldwork, research, and restoration projects
- New staff position for campus reserve
- Younger Lagoon Reserve
- Natural History Class

Challenges

- Creating systems that allow for increased outdoor learning opportunities
- Encouraging students to go outside and explore campus
- Running programs without staff
- Grounds-keeping collaboration

2020 Visions & Actions

- Increased involvement in site stewardship
 - ☐ Outreach to core courses
 - ☐ Have college nights about the topics of environment, sustainability etc..
 - ☐ Increase student/ staff involvement in ongoing programs like site stewardship and other reserve programs.
 - ☐ Talk to professors, admin, students, and orgs
- Have information on wildlife, habitats, campus history, etc on signs around campus
 - ☐ Increase field opportunities for undergraduates
 - ☐ Class/college hikes
- Have a central campus area: the amphitheater (needs renovations, too expensive)
- Part of all core course or a whole core course focused on the environment
 - ☐ Use habitats for small classes
 - ☐ Talk to professors, admin, students, and orgs

- Campus tour guides
 - ☐ Offer tour of upper campus during orientations
 - ☐ Give guides a copy of the History of Natural Campus book
 - ☐ Give tour guides special training for orientation and events
 - ☐ Offer self-guided tours through applications (GIS mapping) that would be able to identify the Natural History of specific areas on campus
- Academic implementation
 - ☐ Natural history implemented into core classes or as a GE
 - ☐ More garden classes and internships outside
 - ☐ Campus team building days with exercise, activities and fun
 - ☐ Share the knowledge and promote local resources
 - ☐ Address regional land use
 - ☐ More accessible student volunteer opportunities
- Outreach about Land Use, Habitat, and Watershed
 - ☐ Social media (Facebook, Twitter, webpages, etc)
 - ☐ Contact Provosts
- Get more people outside!
 - ☐ Invasive species removal workdays!
 - ☐ No more cutting of favorite climbing trees, instead make a sign to alleviate UCSC's liability concerns.
 - ☐ Designate land segments for local land trust and owners can advance conservation and research there.
 - ☐ Expand PICA
 - ☐ Hold more classes outside
 - ☐ Dance into the wild -- dance party in the woods with headphones, no noise pollution
- Need a program, faculty members, etc to bridge these gaps, make these ideas happen
 - ☐ Put a staff member liaison in a sustainability organization and/or Site Stewardship program (someone who knows the history, who has a job to do it, and who can go out and get support, teach, and implement ideas)
 - ☐ Student president in CSS (Committee on Sustainability and Stewardship)
- Bee boxes for dining hall, with viewing windows and catchment for honey
- Mandatory field quarter for all declared ENVS majors
- No creation of additional residential colleges
-



GREEN PURCHASING

UCSC History

- The Green Purchasing Working Group launched an initiative to move the campus from 30% post consumer waste paper to 100%
- UCSC is strong in regard to green purchasing thanks to CruzBuy
 - CruzBuy is an online purchasing system that allows campus shoppers to access hosted catalogs and suppliers, request individual purchases, and get purchases approved. This tool can potentially be used to increase the percentage of purchases that contain recycled content.

Programs at UCSC

- Green Purchasing Working Group (GPWeG): sustainability.ucsc.edu/content/purchasing
- Procurement and Business Contracts (P&BC): <https://financial.ucsc.edu/Pages/Headlines1.aspx>

Current Interest

Excitement

- Green guidelines for sustainable purchasing at UCSC
- Electronic billing
- Class websites on eCommons
- Forward thinking administration and small enough campus to really implement tools
- Local purchasing in vendor system (Cruzbuy)

- Contracting with companies to increase awareness of sustainability goals such as packaging requirements or 'free stuff' that becomes waste
- Delivery days are reduced
- Breaking down the idea that green items are more costly
- High percentage of local businesses used in purchasing

Challenges

- Some places on campus don't purchase sustainably (Tacos Morenos, Joe's, etc.)
- Only Purchasing Department can use procurement funds
- Housing Department faxing too much to buying team to tell what they need
- How do we weed out the "green-washed" products, that aren't necessarily green or sustainable?
- Some departments use expensive and toxic products and chemicals in their work
- Paper invoices
- Purchasing only viewed as a bureaucratic hurdle
- Many suppliers believe purchasing has too many requirements that are too difficult to comply with

2020 Visions & Actions

- More transparency in the supply chain
 - ☐ total cost of a product (including externalities etc.)
 - ☐ Publishing and reporting how much the university spends and on what
 - ☐ Calculate waste density/carbon emissions in each purchase order and make information public
 - ☐ tracking green purchasing
 - requires major staff, faculty, and student collaboration
 - ☐ There is a green indicator flag on cruzbuy
 - Chasing arrows, energy star, green tree
 - Purchasing contracts surrounding renewable energy (solar etc)
 - ☐ Tracking green purchasing
 - requires major staff, faculty, and student collaboration
- Campus culture of re-use; overall intake is reduced
 - ☐ Utilizing Goodwill, thrift stores
 - ☐ Return non-recyclables to company
 - Incentive for businesses to change their practices
 - ☐ Waste discussion takes place in labs not just dining halls on campus
 - ☐ Hazardous e-waste recycling event

GREEN PURCHASING CONTINUED

- Held event previously with SEC, open to the community
- Earned \$4,000
- Fun, collaborative, student e-waste involves
- Bike courier deliveries
 - ☐ All businesses on campus operate under same standards (Including self-operating)
 - ☐ Create universal sustainability contracts with suppliers
 - In the works
 - First time in 7 years
- Bring on more environmentally friendly businesses
 - ☐ For example: campus cannot regulate non-contracted businesses like the taco truck
 - convince university via (RFP) to have an organic truck on campus in lieu of non contracted wasteful businesses
 - ☐ Understanding the suppliers claims (making sure there are no false claims)
- No paper, no plastic
 - ☐ No readers
 - Digital common database for readings online.
 - Can Printing Services take the scanning on? (interns?)
 - Reader recycle program, for now
 - At least give the option of using an online reader version
 - ☐ LCD screens instead of flyering at the bus stops
 - Maintenance job opportunities
 - ☐ Ban plastic bags on campus
 - ☐ BYOT “bring your own towel” to dry your hands
 - ☐ Plastic water bottles eradicated via Take Back the Tap
 - ☐ 100% digital purchasing orders, billing, and permits and all digital approvals
 - Staff and Student demand for digital text
 - Limit purchase methods that depend on paper-based forms
- University community is educated about the benefits of green procurement
 - ☐ Projects to determine cost realities: Sustainable businesses vs. Safeway, Costco, etc.
 - ☐ Incorporating sustainable purchasing ideas and background in courses
 - ☐ Create more intern positions
 - Interns can perform informational sessions
 - ☐ Green Washing Training Program: Currently being developed through GPWeg

- Questions to ask companies when purchasing from them
- All buyers given trainings
- Collection of data and a purchasing baseline
- ☐ Purchasing Power through a core course (2-unit)
- 100% green businesses in CruzBuy system
 - ☐ Icons indicating local, sustainable, vegan, organic, energy-star, recycle triangle, fair-trade certified etc.
 - ☐ Incentives for making a certain percentage of green purchases
 - ☐ Student initiatives to eliminate non-sustainable businesses from the vendor system
- Transparency in the supply chain
 - ☐ Total cost of a product (including externalities etc.)
 - ☐ Publishing and reporting how much the university spends and on what
 - ☐ Calculate waste density/carbon emissions in each purchase order and make information public
 - ☐ Tracking green purchasing
 - Requires major staff, faculty, and student collaboration
 - ☐ There is a green indicator flag on cruzbuy
 - Chasing arrows, energy star, green tree
 - ☐ Purchasing contracts surrounding renewable energy (solar etc)
 - ☐ Campus wide accessible inventory of disposable/ biodegradable things we purchase
- Farmers market on campus
- Local vendor fair on campus
 - ☐ Food and music
 - ☐ Farmers market
 - ☐ Promote local purchases
 - ☐ More community outreach
 - ☐ Add local and community markets to PO system
- More efficient new electronics
 - ☐ Buy hand dryers for bathrooms
- More biodegradable products sold in convenient places like dorms
- Only sell eco-friendly cleaning products
- Straw bail bike lounge with lockers and showers for commuters
- Create campus craigslist for surplus furniture
 - ☐ Sell to incoming freshman and transfer students living on campus
 - ☐ Use in other buildings on campus



(Above: Fall 2012 Sustainability Inter Organizational Retreat,
Below: Zero Waste at Earth Summit, March 3rd, 2012)





(Above: the People's Bikes powering music Strawberry and Justice Festival & Earth Day 2012,
Below: Fermentation workshop at Earth Summit)





TRANSPORTATION

UCSC History

- The campus has always focused on discovering and promoting more alternative and eco-friendly methods of transportation
- In the past years, sustainable transportation has increased significantly. 60% of all person-trips currently made to and from campus employ sustainable transportation practices
- TAPS has successfully reduced single-occupancy vehicle use

Programs at UCSC

- Transportation and Parking Services (TAPS): www2.ucsc.edu/taps
 - Transportation Advisory Committee: www2.ucsc.edu/taps/tac.html
- Transportation Campaign (Student Environmental Center): sec.enviroslug.org/transportation.html
- Bike Library: sec.enviroslug.org/bike-library.html
- Transportation Working Group: sustainability.ucsc.edu/content/working-groups
- The Culture and Community of the Bicycle course: bikeclass.weebly.com/index.html

Current Interest:

Excitement

- TAPS focuses on alternative transportation
- Transportation Advisory Committee is comprised of student volunteers that help improve transportation on campus via TAPS
- Free maintenance for bikes from OPERS
- Student run bike coop

TRANSPORTATION CONTINUED

- Bike shuttle paid through by parking fees not by student fees
- Bike Library run by the Transportation Campaign in SEC
- More sharrows-bikes and cars sharing lanes
- TAPS picked up night owl route on weekends that the Metro stopped running
- Bike maintenance stations in the process
- Zimride has had 4,000 new users since its start

Challenges

- Limited physical capacity on buses/shuttles
- Metro station cutting routes
- Metro buses too full
- Not enough room for bike racks
- Lack of bike shuttle hours after 1pm

2020 Visions & Actions:

- One Way Roads on Campus
 - ☐ Use the other lane to have two way bike lanes
 - ☐ More sharrows
- No Private Vehicle Campus in Core
 - ☐ No single use occupant cars on campus
 - ☐ Collect private vehicles on edge of campus and transit up
 - ☐ Priority parking for alternative fuel cars
 - ☐ Barriers restricting cars from driving through campus.
 - People can park at the remote parking lots and take buses or walk.
 - Increase remote lot parking and shuttle service
- Increasing parking permit fees to fund better bike shuttles.
- People feel empowered to walk
 - ☐ Develop incentives to walk
 - ☐ Name walking paths and increase signage
 - Comparative times for walking and taking a bus
 - ☐ Reduce walking barriers
 - 'Walking buddies'
 - Frosh walking tours during move in week
 - ☐ Education for benefits of walking

- Majority of people taking transit to/within UCSC
 - ☐ More commuter lockers
 - ☐ Lockers in redwood building
- Zero energy consumption and energy conservation of parking structure
 - ☐ Solar panels on bus stops, parking lots/structures
- Legitimize hitchhiking
- Cars would have stickers on their car to ensure safety
- Lengthen bike shuttle times after 1pm
- Incentives
 - ☐ For ride-sharing (e.g. Rebates on ticketed events for people who ride-share to those events)
 - ☐ For giving up/not buy parking permits (e.g. Free scratch-offs, gift cards from local businesses, etc.)
- Rapid Transit
 - ☐ Ability to go from campus to downtown in less than 15 minutes
- More and cheaper vanpool options
- No mail trucks
 - ☐ Delivery by bicycle
- Increased bike accessibility and safety encouragement
 - ☐ Safer bike lanes all around campus
 - ☐ Bike Library rents out for a weekend (short term) for new riders
 - ☐ Bike racks on the back of metro buses
 - ☐ Power strip with power sockets to plug in electric bikes at bike racks
 - Powered by solar panels
 - Also have air pump and free tools to use at bike racks
 - ☐ More equipment giveaways
 - ☐ Solar powered lights stuck in the ground along the bike path
 - ☐ Big brother/sister program
 - Experienced bikers help novice bikers
 - ☐ Bell on top of the bike path hill!
 - ☐ More signs
 - Advertising bike routes
 - Encouraging cyclist-motorist cooperation
 - Facts about fossil fuel reductions for biking and walking
 - ☐ More covered bike racks in residencies



WASTE PREVENTION & RECYCLING

UCSC History

- UCSC has developed a variety of reuse, recycling, and composting systems to save energy, natural resources, and reduce landfill waste, while student organizations have helped to spread awareness
- Campus composting programs have been increasing in support and supervision in both the dining services and the residences
- Zero Waste Move Out events are organized with the goal of collecting and donating all waste from students leaving the dorms.
- Much has improved with electronic waste on campus, including upgrading and reselling up to 80% of the computers, audio-visual equipment, and other electronics that are brought in
- Green waste is chipped and used back on landscapes or hauled separately to the regional recycling facility to be ground into mulch
- Zero waste events on campus becoming are more prevalent (OPERS Fall Festival)

Programs at UCSC

- Waste and Recycling Working Group: sustainability.ucsc.edu/content/working-groups
- Student Environmental Center Waste Prevention Campaign: sec.envirolug.org/waste-prevention.html
- Take Back the Tap Campaign: <http://www.takebackthetapuc.org>

Current Interest

Excitement

- Making college composting programs integrate with dining halls better
- SEC has worked to make Summer Orientation sessions Zero Waste
- Bringing vermicomposting programs on-campus
- Take Back the Tap is banning the sale of plastic water bottles across campus
- Physical plant has a CRC truck that is accessible for students-conveyor belt where trash is recycled and assessed to weed out things that are trash and recycling
- Option on Cruzbuy to look for vendors who use less packaging

Challenges

- Safety and health issues associated with starting composting programs in UCSC residential areas
- Consistency in signage and use of waste stations
- Finding ways to reduce the amount of food waste generated by students in dining halls
- Paper towel waste adds up to 34% of our waste on campus
- Many restaurants still don't compost
- Compost and recycling bins are not widely accessible on campus
- Bio-bags are very expensive
- Increasing recycling in academic and administrative buildings

2020 Visions & Actions

- Zero Waste campus
 - ☐ Make magnets and/or stickers for campus residents that have information and instructions on compost and e-waste sites
 - ☐ Zero waste information distribution
 - ☐ Fines for wasteful practices
 - ☐ Directly re-appropriate waste into valuable resources
 - Donation stations all year round
 - ☐ Use dining hall oil to fuel busses
- Increased collaboration
 - ☐ Specifically between SEC Waste Campaign, UCSC Recycling Services, Sust. Office Zero Waste Team, Silas Synder's Waste Reduction coordinators, and any other zero-waste groups on campus.
- Composting all compostables

WASTE PREVENTION & RECYCLING

- ☐ Replacing trash bins with compost at residential halls
- ☐ BayTree bags are composted
 - They are made out of tapioca!
- ☐ On-site composting facility and management program
 - Campus-wide and comprehensive
 - Constituent signage
- ☐ Compost bins next to every trash and recycling around campus
- ☐ Informative signs about what is compostable/recyclable/trash
- ☐ Make sure all three cans are next to each other or else people dispose incorrectly
- ☐ Have compost bins in each dorm room
- ☐ Less distance to composting sites
- ☐ Compost all coffee grounds
- ☐ Compostable toilets
- No more paper towels in bathrooms
 - ☐ Reduce towel usage in classrooms and labs
 - ☐ Provide lockers/cubbies in dorm bathrooms to eliminate paper towels
 - ☐ Students bring reusable hand towels or their own rolls
 - ☐ Make biodegradable paper towels with designated places to dispose
- Small scale methane digesters
 - ☐ Collect methane from anaerobic compost and use it for cooking food
- SOAR orgs mandate Zero Waste events,
 - ☐ Edit event proposal forms
 - ☐ More resources for kitchens, places to cook and hold events
 - ☐ Student events utilize SlugWare reusable dishware
 - ☐ All Greek organizations trained in Zero Waste
 - May need help with funding
- Individuals are aware and active in their own habits
- Classes on sustainable living habits for 2-units and incoming freshman
- Hand out goodie bags with reusable cups, towel, other sustainable items to the freshman at orientation
- Trip to the landfill for summer orientation
- Create “spies” around campus that hand out prizes (stickers, buttons, raffle tickets)
 - ☐ People recycle their dorm waste
 - ☐ People finish their plates at the dining hall
- Zero contamination with composting and trash



WATER

UCSC History

- UCSC uses about 1.1 million gallons/day. Students use roughly 47 gallons/day/student
- UCSC's water consumption represents 5% of the water demand for the City of Santa Cruz water service area
- Since 90's, UCSC has launched a variety of programs that have successfully lowered water use
- Water conservation priority projects would reduce university water usage by annually 15% and about \$500,000/year. Projects would be paid off in about 5 years.
- Stopped using plastic trays in dinning hall in 2008
 - Reduced water waste in dining halls by 35%
 - Reduced cleaning water use by 1 million gallons per year
- Groundwater is being reduced - although it is still being used, it is no longer refilled.
- No water is utilized from state water project
- All dining hall spray nozzles were replaced with support from Green Campus.

Programs at UCSC

- Take Back the Tap: foodandwaterwatch.org/water/take-back-the-tap/
- Green Campus: ucscgreencampus.com
- Drop Your Own Drip: Mock Water Bill Competition (ESLP Class, now part of SEC)

Current Interest

Excitement

WATER CONTINUED

- Waterless urinals
- Dual flush toilets all over campus!
- 40% decrease in per capita water use over the past decade
- Rain catchment on campus buildings
- Being surrounded by so many bodies of water

Challenges

- How to make this conservation movement inclusive? Figuring out barriers (or perceived barriers) to not making proper use of water saving technology.
- Reaching new populations. Orientation? RA/CA trainings?
- Education on proper use of water saving technology
- Santa Cruz is so beautiful but LRDP was passed and is threatening campus habitat (LAFCO decision 12/7)
- Cost of implementing rain catchment systems
- Students do not pay for water directly in the dorms or apartments

2020 Visions & Actions

- Water conversations include social justice issues
 - ☐ Water privatization struggles are voiced
 - ☐ More film screenings
- All technology incorporates water conservation
 - ☐ Motion sensors for all water spigots
 - ☐ In dorms, students use their id card to turn on the water
 - ☐ All toilets are low flow
 - ☐ Dual flush
 - ☐ Timed and/or uncomfortable showers to reduce water use in showers and hot water use
 - ☐ Implement low flow shower heads throughout all of campus housing
 - ☐ Timed showers (not battery operated)
 - Water turns cold or off after 5 minutes
- Better use of storm water
 - ☐ More living roofs on campus
 - ☐ Rain catchment systems on all buildings
- Lobby to campaign for legalizing grey water
 - ☐ Laundry water used for irrigation
- Staff efforts to reduce water use in dining halls (water recycler already in use)

- ☐ Table tents and flyers that educate people about how much water they are using
- ☐ Implementing dining hall food ratings as a measure of water use to produce the food.
- ☐ Meatless Mondays everyday at Dining Halls
- Take Back the Tap campaign is successful in eradicating plastic water bottles
 - ☐ Educate people on harms of plastic bottling and merits of conserving water
 - ☐ More activist concentrated work on this project
- Quarterly water saving contest between colleges
 - ☐ “Mock water bills” in all campus apts (project trial through ESLP in 2012)
 - To be adopted as an SEC project with internship opportunities
 - ☐ Water meters for all buildings
 - Alert students in case of overuse or leaks
 - ☐ Keep track of water savings - using Dashboard
 - ☐ Blackout days: one day a quarter where we use the most minimal water possible
 - ☐ One-gallon challenge for a day
- Residents in apartments and dorms pay for the water they use
- No lawns on campus!
 - ☐ Xeriscaping and more native plant integration
 - Remove invasive, water intensive plants
 - ☐ Using turfs for sports fields
 - ☐ More ponds for irrigation
- All paper resources, which utilize water to make, (readers, syllabi, etc) are available online!
- Create an SEC Water Campaign
- Water Working Group



SOCIAL & ENVIRONMENTAL JUSTICE

UCSC History

- Student groups have worked for social justice at UCSC for decades, resulting in a diverse range of programs and accomplishments, many of which function to this day
- Environmental groups at UCSC continually seek to find new ways to integrate efforts for social and environmental justice into the broader scope of sustainability
- The Office for Diversity, Equity, and Inclusion offers a Diversity and Inclusion Certificate program and the annual Chancellor's Diversity Awards
- Annual Strawberry Justice Festival at CASFS

Programs at UCSC

- Engaging Education: engagingeducation.org
- Chicano Latino Resource Center: www2.ucsc.edu/raza/orgs.shtml
- Global Information Internship Program (GIIP): <http://giip.org/>
- College 9 and 10 courses (see catalog)
- CAN Coffee: canunite.org
- UCSC Office for Diversity, Equity, and Inclusion: <http://diversity.ucsc.edu/>
- American Indian Resource Center green team: <http://www2.ucsc.edu/airc/organizations.htm>
- LALS 164-Environmental Justice: offered in Spring 2013
- ENVS 147-Environmental Inequality/Environmental Justice: offered in Fall 2013

Current Interest:

Excitement

- UCSC is known for its social activism and students can get credit for work in this realm
- Over 50% white, but as Hispanic student enrollment increases we can receive federal funding as a “Latino supporting institution”
- Environmental change can help social change, and vice versa
- UCSC is working to address issues of pesticides, including both their environmental damage and their effects on farm workers
- Community efforts: Learning more about homeless garden projects and empowering hands on education
- Knowledge on campus growing about Ecofeminism

Challenges

- Budget cuts- No ethnic studies major
- Rising tuition costs and expensive on-campus housing
- Residential college stereotypes (e.g. “Oakes has most diversity/minorities”)
- Need more collaboration between ethnic organizations and environmental organizations

Why bridge environmental and social justice movements?

- UCSC’s on going work to create a more inclusive campus climate
- Ranked as a leader in sustainability
- Inclusion and Access, historically divided
- Has been marked by tuition increases and hate crimes since we’ve been here (this is across the UC system)
- Disconnect, decentralized campus that covers a large area
- Project managers don’t have a system for communicating across campus
- All these groups are seeking one common goal of creating a better campus. There are two sides of the coin; that is, sustainability depends upon social equality. Because in order to achieve sustainability, everyone needs to “pitch in.” Further more, the environmental movement has, in history, oppressed indigenous, low-income people, that racism was justified in the process. As such, environmentalism and social justice ought to cooperate to promote liberation. They are inter-related because both inter-lap in injustices committed.

SOCIAL & ENVIRONMENTAL JUSTICE CONT'D

Opportunity for dialogue and growth as a community

- Recognize need to build alliances across movements/issues
- Engage in authentic and real dialogue
- Begin to establish some measurable goals for the next year
- Last year we recognized that we went to stop continuing along this parallel event, but want to build an inclusive movement where we have meaningful conversation surrounding these issues
- Process as an important part of outcomes, our process is our outcome

2020 Visions & Actions

- Raise awareness through education
- More environmental justice classes
 - ☐ More public facility trips
 - Landfills
 - Water treatment center
 - Affected areas (inequality in low income environments)
 - ☐ Leadership opportunities and trainings for personal and group growth
 - Diversity and Inclusion
- The Environmental Studies major is diversified
- Celebrate different cultural days with an environmental focus
 - ☐ Teach tolerance and appreciation for our diverse backgrounds
 - ☐ National bus driver day
- The demographic make-up of our college reflects the demographic make-up of California
- Increased opportunity for Social Justice courses
 - ☐ Service learning class to encourage and breed community activism
 - ☐ Provide required social/ environmental justice class
 - ☐ Ethnic studies major
 - American studies, History of Consciousness, Fem studies, Latin American and Latino Studies
- Increased local collaborations and coalition building
 - ☐ PTAGS could seek to collaborate and build bridges with MAC (Multi-cultural Advisory Committee) within Stevenson
 - ☐ Support CASFS to train socially, environmentally educated and experienced people into the world
 - ☐ Encourage more people to stand up for environmental justice in their communities
 - ☐ Host combined Alliance/Relationship Building Event(s)

SOCIAL & ENVIRONMENTAL JUSTICE CONT'D

- No privatization at the public University of California, Santa Cruz
- More flexibility for student holds
 - ☐ Better communication to discuss resources and options
- Fair pay for all UCSC workers
- UCSC is more affordable/accessable
 - ☐ Tuition
 - ☐ Housing
 - ☐ Transportation
- Require UCSC suppliers to demonstrate commitment to social and environmental justice
- The UC Regents serve terms less than 12 years
- Have organic, sustainable and healthier food available for low income communities
- Increased involvement with community
 - ☐ More mapping/brainstorming of connections with communities and individuals and how they might be affected by environmental projections



ACADEMICS & CURRICULUM

UCSC History

- Various courses offered through Environmental Studies, Sociology, Latin American and Latino Studies, Engineering, Politics focus on environmental issues and practices
- New G.E. “Perspectives” will be implemented in the Fall of 2012 that will center around environmental education
- OPERS (Office Of Physical Education, Recreation and Sports) has introduced learning journey programs that take students into nature to learn
- Sierra Institute began at UCSC in the early 1970's

Programs at UCSC

- Education for Sustainable Living Program: eslp.enviroslug.org
- UCSC SEED (Sustainable Engineering and Ecological Design): www2.ucsc.edu/cgirs/sustainability.html
- College Eight Core Course (CLEI 81A,B,&C)
- ImpactDesigns:EngineeringandSustainabilitythroughStudentService(IDEASS):sustainability.ucsc.edu/sustainability.ucsc.edu/ideass
- Friends of the Sustainability Office (FOSO)
- Students for Sustainability through Institutional Transformation and Engagement (SSITE)
- The Culture and Community of the Bicycle course: bikeclass.weebly.com/index.html
- Farm & Garden Courses (see Food Systems section)
- Environmental Education for the Next Generation (EENG)

ACADEMICS & CURRICULUM CONTINUED

- Life Lab: <http://www.lifelab.org/>
- UCSC open for conferences: Breaking Grounds/Strengthening the Roots, CSSC, Earth Summit, Practical Activism

Current Interest

Excitement

- College 8/Family Student Housing programs always compost food
- Waste stations that teach students ways to dispose of waste
- Community Agroecology Network's "Alternative Spring Break" trips
- Lots of on-campus funding to help with projects
- Environmentalism overlaps with research in a variety of disciplines
- Students Facilitating Classes through ESLP and other avenues
- College core themes
- Independent Majors
- Faculty mentors
- Inter-Org Retreat

Challenges

- Environmental Studies degree requirements allow for only two courses outside the department
- Image issue with the "sustainability community" being very homogeneous
- Outreaching more to majors other than Environmental Studies
- Integrating sustainability into all majors and departments
- Outreaching to faculty and attempting to incorporate sustainability into curriculum
- Environmental Studies has experiential education but it is difficult to integrate that in other disciplines
- Environmental Studies highly impacted, students cannot get into classes
- Some professors only here to do research and not to teach

2020 Visions & Actions

- Sustainability is more interdisciplinary
 - ☐ Include sustainability opportunities and achievements on UCSC website
 - ☐ Social Justice integration
 - ☐ Interaction and credit supplements between all departments
 - ☐ Address consumption and promote simple living in classes
 - ☐ Make a sustainable living class a GE requirement

- 2 unit intro to sustainability class
- ☐ Independent major option is easier to attain and more broadcasted
- ☐ Interdisciplinary minor in sustainable leadership or sustainability
- ☐ More focused majors/minors (e.g. Food Systems)
- ☐ Expand the College 8 Sustainability Core course throughout the entire campus
- More classes for ENVS
 - ☐ Agroecology and Natural History aspects of the ENVS Department are expanded
- More hands-on, student-run classes
 - ☐ Outdoor classrooms
 - ☐ Students learning through nature journaling
 - ☐ Classes that involve more dynamics and visuals
- Professors come to UCSC to teach, first and foremost.
 - ☐ Plan a professional development “class” for faculty
- On campus canvases for people to create space for student artwork and add on to over time.
- Create a one page introductions to different topics using visual mind maps for freshman
 - ☐ Campus funding for regeneration
 - ☐ Grass roots organization
 - ☐ Institutions
- Use IDEAS class to create applied projects that incorporate both technological and social solutions
- Create a UCSC social network



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