CAMPUS LANDSCAPE MASTER PLAN
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

PUBLIC FORUM
APRIL 27, 2022
As a land-grant institution, the University of Illinois Urbana-Champaign has a responsibility to acknowledge the historical context in which it exists. In order to remind ourselves and our community, we will begin this event with the following statement. We are currently on the lands of the Peoria, Kaskaskia, Piankashaw, Wea, Miami, Mascoutin, Odawa, Sauk, Mesquaki, Kickapoo, Potawatomi, Ojibwe, and Chickasaw Nations. It is necessary for us to acknowledge these Native Nations and for us to work with them as we move forward as an institution. Over the next 150 years, we will be a vibrant community inclusive of all our differences, with Native peoples at the core of our efforts.
AGENDA

- Process and Purpose
- Core Principles
- Stakeholder Priorities
- Campus-Wide Goals
- Prototype Demonstrations
Enter www.menti.com in your search bar

Enter the meeting code: 99167475

Click “submit” button

Once your respond to the question, you will see a screen asking you to wait for the next question. You will see the results live!
LANDSCAPE MASTER PLAN PROCESS

- **PROJECT KICK OFF**
- **STAKEHOLDER INTERVIEWS**
- **IDENTIFY OPPORTUNITIES**
- **ID PROTOTYPE PROJECTS**
- **DEVELOP PROPOSALS**
- **FINALIZE PLAN**

**Process Timeline:**
- **December 2021:** Project Kick Off
- **December 2021:** Inventory + Analysis
- **January 2022:** Stakeholder Interviews
- **December 2021:** Identify Opportunities
- **February 2022:** ID Prototype Projects
- **March 2022:** Develop Proposals
- **April 2022:** Finalize Plan
- **May 2022:** Test Ideas
- **June 2022:** Finalize Plan
LANDSCAPE MASTER PLAN = IMPLEMENTATION OF THREE PLANS

THE IMPACT OF PLACE:
 UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN CAMPUS MASTER PLAN
 UPDATED: AUGUST 2016

CAMPUS MASTER PLAN
(ADOPTED 2017)

THE RESILIENT LANDSCAPE STRATEGY
(ADOPTED 2019)

ILLINOIS CLIMATE ACTION PLAN
(ICAP) UPDATED 2020

ILLINOIS CLIMATE ACTION PLAN
2020
| LANDSCAPE MASTER PLAN = IMPLEMENTATION OF THREE PLANS |

<table>
<thead>
<tr>
<th>Landscaping Master Plan (Adopted 2017)</th>
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<tbody>
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<td>“While streets and buildings define the basic open space framework of campus, its character and the way it is perceived are largely determined by the treatment of the campus landscape.”</td>
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<th>Resilient Landscape Strategy (Adopted 2019)</th>
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<td>“Transitioning to sustainable landscape design as the standard for our campus is necessary for the CULTURAL CHANGE needed to live sustainably.”</td>
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<th>Illinois Climate Action Plan (ICAP) Updated 2020</th>
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<td>“Our campus has an urgent responsibility to sustainably manage everything from the water we drink to the crops we harvest to the pollinators we rely on for survival. Strategies to address these and other concerns include implementing green infrastructure, designing resilient landscapes, and restoring our ecosystems.”</td>
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A CULTURAL SHIFT HAS BEEN IN MOTION FOR 20 YEARS...

2002
Report of the Committee
On a Sustainable Campus Environment

2008
Second Nature Climate Resilience Commitment Signed

2010
iCAP

2015
Illinois Tree Campus

2015
iCAP

2017
Campus Master Plan

2018
Bee Campus USA

2019
Resilient Landscape Strategy

2020
iCAP
WHAT VALUE DOES THE LANDSCAPE PROVIDE?
THE LANDSCAPE...

ATTRACTS STUDENTS AND FACULTY

PROVIDES SPACES FOR LEARNING AND IDEA EXCHANGE

REDUCES ENERGY COSTS

CONTRIBUTES TO MENTAL HEALTH AND WELL-BEING

INFILTRATES RAINWATER

PROVIDES FOOD

SEQUESTERS CARBON

PROVIDES HABITAT
CORE PRINCIPLES - WHAT ARE THE OUTCOMES OF THE PLAN?
THE PLAN WILL...

Define a shared vision of a sustainable campus landscape.

Define a cohesive landscape aesthetic to reinforce branding and identity.

Recenter the stories of Native peoples within the landscape.

Honor the legacy of the historic landscape design.
THE PLAN WILL...

DEFINE STRATEGIES THAT VALUE RAINWATER AS A PRECIOUS RESOURCE.

DEFINE WAYS TO LEVERAGE THE LANDSCAPE FOR LEARNING, RESEARCH AND MENTAL HEALTH.

PROVIDE DESIGN GUIDANCE TO ADDRESS MAINTENANCE CONSIDERATIONS.

DEFINE CLEAR FUNDING AND RESPONSIBILITIES TO GUIDE ALL FUTURE DEVELOPMENT DECISIONS.
CHAT QUESTIONS
STAKEHOLDER PRIORITIES
STAKEHOLDER PRIORITIES

1. The landscape strongly contributes to the economic success of the university.

2. Address areas of deferred maintenance first.

3. More even/equitable investment in landscape across campus.


5. Intentional funding strategy is needed.
STAKEHOLDER PRIORITIES

6. Campus should be a world leader in resiliency and stormwater management.

7. Need more maintenance staff across campus, including special skill-sets.

8. Places for people to gather, sit and study is the #1 “missing element” on campus.

9. Current and prospective students want a campus that places sustainability at the forefront by making it visible.

10. Landscape is integral to the mental health of the entire campus community.

13 CORE COMMITTEE MEMBERS

106 STAKEHOLDER INTERVIEW PARTICIPANTS

35 PARTICIPANTS IN STUDENT FORUM

85 SURVEY RESPONSES
CAMPUS LANDSCAPE GOALS
CAMPUS LANDSCAPE GOALS

CREATE MORE OPPORTUNITY FOR MENTAL RESTORATION ON CAMPUS.
CAMPUS LANDSCAPE GOALS

MAXIMIZE INNOVATION POTENTIAL WITHIN THE CAMPUS LANDSCAPE.

EXISTING GATHERING SPACE
PROPOSED GATHERING SPACE
PROPOSED BUILDING
CELEBRATE THE CULTURE, ACHIEVEMENTS AND INTERESTS OF CURRENT AND PAST STUDENTS.
CAMPUS LANDSCAPE GOALS

DEMONSTRATE SUSTAINABILITY AS A CORE VALUE OF THE UNIVERSITY.
CAMPUS LANDSCAPE GOALS

CARE FOR CAMPUS’S HISTORIC ASSETS AND INVEST IN THE EXISTING CAMPUS LANDSCAPE AS A FIRST PRIORITY.
CONNECT CAMPUS TO THE LARGER ECOLOGICAL CONTEXT.
CAMPUS LANDSCAPE GOALS

BECOME A WORLD-LEADER IN RAINWATER MANAGEMENT.
CAMPUS LANDSCAPE GOALS

BIO-RETENTION

RAINWATER HARVESTING

IMPERVIOUS REMOVAL

LANDSCAPE CONVERSION
CREATE A CLEAR PATH TO LANDSCAPE INVESTMENTS FOR THE NEXT 50-75 YEARS.

1. What are the component parts?
2. What are the replacement costs of each?
3. What is the useful life of each?
4. What is the condition of each? (100/75/50/25/0)
5. What fundraising is needed annually?
6. Funding and staffing alternatives / structure
POSITION THE CAMPUS LANDSCAPE AS A LIVING LABORATORY.
CHAT QUESTIONS
PROTOTYPES
CAMPUS DISTRICT PROTOTYPES

Selection Criteria:

• Showcase a variety of “place types” and program elements

• Address areas of high use or high need

• Ability to demonstrate a model sustainable campus

• Ability to demonstrate the core principles of the plan

• Implementable projects
**MAIN QUAD RECOMMENDATIONS**

- Restore Centennial Court paving with permeable pavers and position this space as a linear event plaza with tent anchors.
- Restore missing trees within Centennial Court.
- Update Anniversary Plaza as a small amphitheater on the north and a simple stepped water / ice feature within the south curve.
- Position with water feature for interest year-round, integrating water, ice and art.
- Provide upgraded lighting with self-watering annual baskets.
- Enhance three courtyards to better serve as seating, gathering, respite.
- Reposition Nevada Street service corridor as a “front door” to the Main Quad.
UNDERGROUND RAINWATER CISTERN
RECYCLED WATER FEATURE
PERMEABLE PAVERS
SAND-BASED SOIL SYSTEM
UPDated LED LIGHTING
DISCONNECT DOWNSPOUTS
PERMEABLE PAVERS

MAIN QUAD SUSTAINABLE LANDSCAPE FEATURES

- Display of green infrastructure research cost/benefit using signage, apps, real-time sensors display

RAINWATER

- Provide underground cistern for rainwater storage to accommodate all Quad runoff - celebrate water re-use through Anniversary Plaza water/ice feature
- Reroute downspouts from roofs and channel into underground storage to reduce burden on storm sewer
- Achieve LEED 2-yr water quality, generate 100-year detention credits
- Permeable pavers in secondary walkways
- Heated permeable pavers in high-value places
- Reduction of turf
- Sand-based planting soil remediation in turf areas outside of critical root zones to improve durability
- Retrofit secondary walkways to permeable pavers

MAINTENANCE

- Reduction of mulch replacement and mowing
MAIN QUAD CONCEPTS

1. Recycled Water Feature
2. Recycled Water Feature
3. Covered Bike Parking
4. Plaza Event Space

Image courtesy of Adobe Stock Creative Commons

NORTH
MAIN QUAD CONCEPTS

NoRTH

PRoTOTYPES | UIUC CAMPUS LANDSCAPE MASTER PLAN

"LIBRARY TABLE" COURTYARD

PERMEABLE PAVERS

HAMMOCK GROVE

UNDERSTORY WOODLAND PLANTING

Image courtesy of Adobe Stock Creative Commons
- Enhance Boneyard Creek intersection at Bardeen Quad
- Create an accessible plaza space and outdoor classroom
- Reduce turf and create more seating opportunities
- Create more tree canopy while framing the Boneyard Creek
- Build an augmented reality interface for learning and research, showcase a sustainable campus approach
RAINFALL ENGINEERING QUAD

RAINWATER
- Intensify native understory plantings
- Convert some turf to native plantings
- Restore native floodplain wetland bench
- Create a riparian edge to filter stormwater prior to runoff

HABITAT
- Provide structures/habitat support for bees, birds, bats

MAINTENANCE
- Reduction of mowing
ENGINEERING QUAD CONCEPTS

ACCESSIBLE ENTRY PLAZA

INTENSIFIED NATIVE UNDERSTORY

OUTDOOR CLASSROOM

POLLINATOR HABITAT
NEVADA CULTURAL QUADS

- Create courtyard spaces with planting and art specific to cultural house identity
- Provide a linear walkway connecting cultural houses across Nevada Street
- Maintain parking within a parking court
- Revitalize existing plaza at Music Building to create a safe nighttime gathering space for student use
- Creation of a more direct relationship to the Main Quad
NEVADA CULTURAL QUADS:

RAINWATER

- Increase pollinator plantings along the street
- Provide permeable pavers for secondary walkways
- Increase tree canopy
NEVADA CULTURAL QUADS CONCEPTS

1. NIGHT PLAZA

2. COURTYARD SPACES

3. NATIVE STREET PLANTING

4. FLEXIBLE COURTYARD

Image source: terrain-nyc via Landezine.com

Image Source: TCLF.org and Office of James Burnett
CHAT QUESTIONS
• Connect ecological assets of campus
• Celebrate and provide exposure to the South Farms area of campus
• Provide a new experience for student respite and new access for education
• Embrace Illini Forest as a celebrated part of campus
• Position Lincoln Avenue as the gateway to the Student Sustainable Farms
• Re-envision Lincoln Avenue with a multi-use trail and a series of rest nodes that showcase rainwater management
• Create new entry to the South Arboretum Woods
• Rainwater management BMPs along Embarass River
ACES LEGACY CORRIDOR CONCEPTS

1. WALKING PATH WITH NATIVE PLANTINGS
2. IN-ROAD BIKE PATH
3. LEARNING AND GATEWAY OPPORTUNITIES
4. WOODLAND WALKING AND BIKE TRAILS
CAMPUS DISTRICT: SOUTH QUAD

49 PROTOTYPES | UIUC CAMPUS LANDSCAPE MASTER PLAN
SOUTH QUAD:

- Connect Dorner Pond and the Red Oak Rain Garden to the larger ecological “system” of campus
- Reinforce the campus-wide “eco corridors”
- Provide a living laboratory
- Provide a new quad space and new outdoor gathering spaces
- Provide improved pedestrian and bicycle experience to connect residence halls to the South Quad and Main Quad
• Reroute building downspouts to flow into linear rain gardens and underground storage
• Increase pollinator plantings within rain garden
• Increase tree canopy and reduce heat island effect
• Utilize underground water storage adjacent to solar runoff and pipe to plant sciences lab for reuse

ENERGY

• Provide solar covered parking access
SOUTH QUAD WALKWAY CONCEPTS

1. FLEXIBLE PLAZA
2. SMALL SCALE SOLAR
3. BOARDWALK OVER RAIN GARDEN
4. RAINWATER COLLECTION AND REUSE
• Creation of a new quad space as a garden to honor the indigenous Midwest
• Pre-colonial plant palette focused on mimicking Illinois native ecoregions
• Physically connect campus to the regional habitat, wildlife including pollinators, birds, bats, terrestrial and amphibians
• Provide exposure to and research opportunities on Illinois native ecologies in an urban context
• Create a series of gathering spaces hosting study and gathering spaces, classroom spaces, contemplative spaces
• Leverage location of Seibel Center to provide display/presentation spaces and an event space
• Reposition Mumford House as a coffee shop/vendor with outdoor seating
MILITARY AXIS
SUSTAINABLE LANDSCAPE FEATURES

- Display of green infrastructure research cost/benefit using signage, apps, real-time sensors display

RAINWATER
- Achieve LEED 2-year water quality, generate 100-year detention credits
- Remediate soils
- Add permeable walkways
- Reduce turf
- Add rain gardens and bioswales
- Increase tree canopy
- Soils remediation through natural systems

MAINTENANCE
- Reduce mowing
- No pesticide use
MILITARY AXIS

PATHWAY CONCEPT

BOARDWALK AND BIRCH GROVE

DRY MEADOW

MURAL AT ART DISPLAY AREA
IKENBERRY QUAD:
• Showcase model campus residence living
• Extend the Military Axis concept into this quad with the addition of a meadow and forest space
• Provide outdoor work/collaboration spaces with wifi hubs and power
• Test sustainable technologies like “solar trees” and solar umbrella tables to power this Quad
• Provide outdoor heating features and smart lighting
• Encourage green roofs on future residence halls
• Build augmented reality platform to educate students on the power generation, carbon sequestration, energy saved, runoff captured and other sustainable features
IKENBERRY QUAD:

RAINWATER
- Add permeable walkways
- Reduce turf
- Increase pollinator plantings
- Add rain gardens
- Increase tree canopy

MAINTENANCE
- Reduce mowing
- No pesticide use

ENERGY
- Solar energy production
IKENBERRY QUAD CONCEPTS

INFORMAL WORK SPACE

SOLAR CHARGING STATION

PICNIC GROVE

FLEXIBLE WORK AND COLLABORATION SPACE
CAMPUS DISTRICT: INDUSTRIAL + ATHLETICS DISTRICT

MEMORIAL STADIUM

STATE FARM CENTER

STADIUM TERRACE

E-14 PARKING
- Formalize the entries into Stadium Terrace, make it a visual extension of Grange Grove
- Minimize crosswalk width along Kirby and increase pedestrian queuing areas
- Reinforce the Illinois brand and celebrate Kirby Avenue as a main entry to campus
- Create a gateway at Neil/Kirby and 1st/Kirby
- Improve functionality and interject playful elements into the Illinois tailgating experience through court games at Stadium Terrace
- Native plantings and upgraded fence in front of Physical Plant Service Building
**KIRBY CORRIDOR:**

**RAINWATER**

- Add rain garden along the north edge of parking lot E-14
- Utilize engineered soils where possible to increase infiltration
- Provide turf reinforcement for parking areas
- Increase pollinator plantings along the street
- Tree replacement program within Stadium Terrace
KIRBY CORRIDOR CONCEPTS

1. ILLINI BLOCK LETTER BRANDING/SIGNAGE
2. RAIN GARDEN AT STREET
3. COURT GAMES
4. LARGER PEDESTRIAN QUEUING AREAS

ILLINI BLOCK LETTER BRANDING/SIGNAGE
RAIN GARDEN AT STREET
COURT GAMES
LARGER PEDESTRIAN QUEUING AREAS
**RESEARCH PARK QUAD**

- Create a shared quad space within a newly developing area of Research Park
- Make Research Park “feel” more like the landscape framework of the core campus
- Create flexible spaces for events, respite, meetings and collaboration
- Demonstrate sustainable landscape practices within a highly visited area of campus
- Increase native and pollinator plantings
- Demonstrate green stormwater strategies in visible locations through rain gardens and bioswales
- Provide permeable pavers for secondary walkways and entry drives
- Increase tree canopy
RESEARCH PARK QUAD CONCEPTS

1. SEATING WALLS AND LEARNING OPPORTUNITIES
2. SHARED "GREEN"
3. SEATING AREAS FOR RESITE AND COLLABORATION
4. PERMEABLE PAVERS AND BIOSWALE
CLMP TEAM

UIUC FACILITIES & SERVICES
Brent Lewis, University Landscape Architect
Stacey DeLorenzo, Transportation Demand Management Coordinator

CONSULTANT TEAM
Design Workshop | Landscape Architecture
Biohabitats | Ecology, Environmental Engineering
Rudd Resources | Stakeholder Outreach/Engagement
Aqua Vitae | Civil Engineering
Heritage Landscapes | Historic Preservation
CCS International | Cost Estimating

CORE PLANNING COMMITTEE
Matthew Brown, Director of Facilities Housing Division
Maiah Caise, President, Student Sustainability Leadership Council
Morgan White, Director of Sustainability, Facilities and Services
Jenny Davis, Associate Professor, Department of Anthropology
Matt Edmonson, Assistant Director, Office of Capital Programs
James Lee Ellis, Natural Areas Coordinator, IL Natural History Survey
Bradley Klein, Interim Associate Director of Project Planning
Mary Patricia McGuire, Associate Professor of Landscape Architecture
Paul Redman, Associate Provost for Capital Planning
Brett Stillwell, Senior Associate Director of Athletics, Capital Projects & Facilities
Ryan Welch, Superintendent of Grounds

STUDENT ADVISORS
Lorena Falcon Johnathan Cu
Marcus Benoff Tyler Courson
Madelyn Craft Dani Pfaff
Roya Nassirpour Matthew Jenkins
THANK YOU!

FOR FURTHER INFORMATION OR DISCUSSION
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