What is Dickinson’s Brand?

- Historic
- Highly Selective
- Small Liberal-arts

- Useful
- Engaged
- Diverse
- Global
- Sustainable
SUSTAINABILITY
A CULTURE AT DICKINSON
A Defining Characteristic of a Dickinson Education
An Institutional Value

Improving the human condition in this and future generations, equitably and without damaging environmental systems necessary to support healthy and vibrant societies.

• Prepare our graduates to be sustainability leaders

• Studying sustainability (classroom & abroad)

• Conducting research & internships

• Advancing campus greening efforts & serve community

• Practicing sustainable living skills

• Operating sustainably

www.dickinson.edu/sustainability
Organic Produce at the College Farm

STUDENTS HAVE THE OPPORTUNITY TO MANAGE PRODUCE, COMPOST, & LIVESTOCK IN PARTNERSHIP WITH THE COLLEGE AND COMMUNITY

www.dickinson.edu/farm
Living and Learning at the College Farm

RESIDENTIAL AND CURRICULAR EXPERIENCES ALLOW FOR LIVING (AND LEARNING) WITH THE LAND

www.dickinson.edu/farm
Dickinson College Farm
Making Sustainability a Defining Characteristic of a Dickinson Education!

- Enhances and connects opportunities for learning about sustainability in and out of the classroom,
- Helps faculty members incorporate sustainability in their teaching and research,
- Funds student-faculty research, organizes speakers and events,
- Serves as an information hub,
- Employs student interns to lead and assist with these and other efforts.
Sustainable Ops

- Energy Management
- Water
- Sustainable Landscapes
- Carbon Neutrality
- Farms & Food
- Facilities Management
- LEED
- Composting – Recycling – Landfill Diversion
- Purchasing
- Transportation
- Connections to Student Life and the curriculum!
STRATEGIC PLANNING FRAMEWORK
A PATHWAY TO SUCCESS
Strategic Planning Framework

- Climate + Energy
- Ecology
- Materials
- Healthy Community
BUILDING & GROUNDS
INTEGRATED BUILDING & LANDSCAPE DESIGN
Landscape Master Plan – July 2007
Sustainable Campus Guidelines

Master Plan Recommendations

Current Needs of Construction Projects

Campus Sustainability Goals + Future Needs

Current Needs of O+M, Faculty, Students, Admin
I. Introduction
A. Purpose
B. Sustainability Goals
C. How to Use

II. Landscape Design Guidance
A. Character Zones
B. Planting
C. Hardscape
D. Lighting
E. Environmental Signage
F. Stormwater Management

III. Landscape Management Plan
Character Zones
# Hardscape Materials

<table>
<thead>
<tr>
<th>CHARACTER ZONE</th>
<th>DOMINANT PATH MATERIALS</th>
<th>DOMINANT PLAZA MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historic</td>
<td>Granite Cobble, Asphalt Pavement, Asphalt Paver</td>
<td>Granite Cobble, Granite Paver, Bluestone</td>
</tr>
<tr>
<td>Expanded Core + Residential</td>
<td>Granite Cobble, Asphalt Pavement, Asphalt Paver</td>
<td>Granite Cobble, Granite Paver</td>
</tr>
<tr>
<td>Athletics, West Campus + High Street</td>
<td>Concrete Pavement, Brick Paver, Limestone (adjacent to walls only)</td>
<td>Concrete Pavement, Brick Pavers, Granite Paver</td>
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<tr>
<td>Connective Corridors</td>
<td>Granite Cobble, Asphalt Pavement, Asphalt Paver</td>
<td>Granite Cobble, Granite Paver</td>
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</tbody>
</table>
Planting

Proposed Character Zones

- Historic Arboretum
- Expanded Arboretum/Quad
- Building Threshold or Educational Landscape
- Special Garden or Plaza
- Borough Residential Landscape
- Streetscape + Green Corridors
- Servicer Landscape
- Athletic Field
Planting

Existing Landcover
Stafford Greenhouse

Dickinson College Historic Arboretum

- Rush Campus Palette- 18th and 19th Century Campus Species

Native Plant Communities of the Region

- Reference Plant Communities- Mountain Creek, Tuscarora SP, LoTort Spring Run, Conodoguinet Creek, Cave Hill Nature Center, Mount Holly Marsh, Cactus Hill, Hoverter and Shell Box Huckleberry Natural Area
- Seeps and Pools, Wet Meadow
- Floodplain and Wetland Forest
- Dry and Mesophytic Forest
- Shale and Limestone Bluffs
- Dry Woodland
- Quercus prinus - (Quercus coccinea, Quercus velutina) Forest Alliance

Educational and Edible Gardens

- Food and Herb Gardens
- Benjamin Rush Medicinal Garden
- Department-specific Gardens
Lighting

Proposed | Contemporary
Seating
Trash Receptacles

Proposed Standard
Stormwater
## Stormwater

### Best Management Practices

<table>
<thead>
<tr>
<th>BMP FOR CHARACTER ZONES</th>
<th>Historic Arboretum</th>
<th>Expanded Arboretum / Quad</th>
<th>Building Threshold or Educational Landscape</th>
<th>Special Garden or Plaza</th>
<th>Borough Residential Landscape</th>
<th>Streetscape + Green Corridors</th>
<th>Service Landscape</th>
<th>Athletic Field</th>
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</thead>
<tbody>
<tr>
<td>Tree trenches and curb bump outs</td>
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<tr>
<td>Green roofs</td>
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<tr>
<td>Rain gardens</td>
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<tr>
<td>Cisterns or rain barrels</td>
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<td>Pervious pavement</td>
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### Graph

- **Good / Low Cost**
  - Stormwater Planters
  - Rain Gardens
- **Poor / High Cost**
  - Stormwater Planters
  - Porous Pavement
- **Runoff Reduction**
  - Green Roofs
  - Rain Gardens
- **N Removal**
  - Cistern
LEED Guidance + New Construction

SUSTAINABLE SITES CAMPUS-WIDE OPPORTUNITIES

- SSc2 Building Exterior and Hardscape Mgt Plan
- SSc3 IPM, Erosion Control, Landscape Management Plan
- SSc4 Alternative Commuting Transportation
- SSc5 Site Disturb- Protect/ Restore Open Habitat
- SSc6 SWV Quality Control
- SSc7.1 Heat Island Reduction (non-root)
- SSc8 Light Pollution Reduction

ON-CAMPUS AND MULTIPLE BUILDING CERTIFICATION

Campus

Group

Master Site

Building
LEED Guidance + New Construction

SUSTAINABLE SITES CAMPUS-WIDE OPPORTUNITIES

- Minimize development of open space by the selection of disturbed land, brownfields, or building retrofits
- Control erosion through improved landscaping practices
- Reduce heat islands using landscaping and building design methods
- Minimize habitat disturbance
- Restore the health of degraded sites by improving habitat for indigenous species through native plants and closed-loop water systems
- Incorporate transportation solutions that acknowledge the need for bicycle parking, carpool staging, and proximity to mass transit. Encourage alternatives to traditional commuting.


**Maintenance Guidance**

1 **Introduction**

2 **General Maintenance**
   2.1 Pruning
   2.2 Mulching
   2.3 Turf Care
   2.4 Watering
   2.5 Fertilizers
   2.6 Rain Garden and Stormwater Features
   2.7 Soils
   2.8 Irrigation
   2.9 Benches and Walls
   2.10 Litter Control and Trash Removal
   2.11 Snow and Ice Maintenance
   2.12 Controls
   2.13 Integrated Pest Management

3 **Tree and Shrub Photo Pictorial and Pruning Guidelines**

4 **US EPA Invasive Species Photo Pictorial**
Kline Fitness & Squash Building
Kline Fitness & Squash Building
Stafford Greenhouse
Stafford Greenhouse
High Street Residence Halls
High Street Residence Halls
Rector Science Courtyard
Rector Science Courtyard
Sustainability is a mindset that permeates the curriculum, extracurricular activities, the residential experience, facilities, campus operations and more. And Dickinson has been recognized as a national leader among liberal-arts institutions for this commitment.

- Recognized as an Overall College Sustainability Leader in the 2010 Green Report Card, earning an A- for the second year in a row;

- Designated as a "Cool School" by Sierra magazine and as one of America's greenest colleges in Sierra's Comprehensive Guide to the Most Eco-Enlightened U.S. Colleges;

Recognitions of Sustainability Efforts

- AASHE STARS “Gold” rating, 2011
- Climate Leadership Award, Second Nature, 2010
- Governor’s Award for Environmental Excellence, 2009
- LEED Gold certification for 4 buildings