University of Maryland Eastern Shore
Master Plan
March 31, 2016
Campus Planning Process
Master Plan Process

1. Data Review and Analysis
2. Stakeholder Engagement
   - Meetings with President, cabinet
   - Campus community questionnaires
3. Refine and Document the Preferred Plan
   - Examine in detail the resulting impacts to campus systems with the preferred development strategy
   - Update the phasing and implementation plan
   - Receive feedback and review of updated plan
   - Submit Draft 2016 Master Plan in December
4. Finalize the Plan
   - Submit final 2016 Master Plan late February
Master Plan Key Goals

- Fulfill UMES’s **commitment to the Board of Regent’s** directive that a Facilities Master Plan (FMP) be evaluated and updated on a periodic basis, including when substantial changes to the institution’s mission statement have taken place.

- **Lay out a framework for the academic and physical growth** of the University over the next ten years guided by projected enrollment growth and space needs.

- **Establish a development strategy** that prioritizes projects in terms of siting, infrastructure capacity, funding, phased renovations of existing buildings, and phased new construction.

- Determine the amount of **future development that can be accommodated** throughout campus.

- **Build upon the campus identity** and provide an urban design framework for future projects and the overall campus evolution.

- **Retain the commitment Climate Change Mitigation** through Climate Neutrality and campus-wide sustainability consistent with the USM system-wide sustainability initiatives.
Campus Engagement
What We Heard

- Are there new types of campus spaces needed to foster the UMES academic missions?
- What do you like best about the UMES campus?
- Is there a single, significant asset of the campus planning, architecture, landscape, or overall environment you want to see protected, enhanced, or cultivated in any future plans?
- What would most improve the faculty and staff experience on campus?
- Do student residential facilities function well? How should they expand to capture projected growth of student population over the next decade?
Campus Engagement

What We Heard

What we heard:
- Center of the Campus Life
- Most Successful Green Spaces
- Needs to be Renovated
- Potential Bus Stop Location
- Heart of Campus
- Needs Bike Racks
- Needs Improvements
Building From the Strategic Plan

**Strategic Plan**
- Mission
- Vision
- Core Values

**Master Plan**
- Spatial Organization
- Gateways and Identity
- Pedestrian Experience
- Vehicular Environment
- Campus Community
- Campus Character
- Sustainability

**Capital Plan**
- Grants
- Philanthropy
- Debt Service
- Partnerships

**Academic/Needs**

**Funding/Resources**
Master Plan
Guiding Principles

• **Enhance the character** of UMES’s exceptional historic campus core

• Build upon and **strengthen the compact, walkable historic core** for short-term and mid-term growth, while preserving the rural quality of outlying areas and reserving them for potential long-term growth needs

• **Preserve existing historic and agricultural landscapes** and conservation areas while expanding the network of quads and interconnected open spaces

• **Improve walkability**, multi-modal connections, and access throughout campus

• Strengthen the campus identity at **gateway arrival moments** and throughout campus

• Create spaces that **foster campus community**, interdisciplinary encounters and informal gathering spaces for all students, faculty, and staff

• Plan and build in an **environmentally sustainable manner** which also responds to local landscapes, climate, and agricultural and rural context

• **Foster design excellence** in new campus projects
2016-2025 Draft Master Plan

University of Maryland Eastern Shore Facilities Master Plan Update

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Planning Context

Campus Strengths

- Historic Core and Landscapes
- Commitment to Sustainability
- Advancing the Built Environment
- Successful Spaces
Planning Context

Campus Challenges

• Gateways, Wayfinding, Identity
• Connectivity
• Middle Zone Sprawl
• Temporary Structures
Master Plan

Campus Themes

**Campus Spatial Organization**
Campus growth, academic core and land use recommendations

**Identity, Gateways and Wayfinding**
Building upon identity, wayfinding, gateways and arrival on campus

**Pedestrian Experience**
Improvements to walkability, pedestrian crossings, and student desire lines

**Vehicular Environment**
Roadways, parking, transit and bike recommendations

**Campus Life**
Housing, living/learning, and opportunities for interdisciplinary interactions

**Campus Character**
Design excellence, architectural and open space principles

**Sustainability**
Continued commitment to sustainability
Campus Themes

Campus Spatial Organization

Campus growth, academic core and land use recommendations
Campus Themes

Campus Spatial Organization

- Concentrate new building development in or near the historic campus core to:
  - Complete unfinished quads
  - Strengthen the close proximity of human-scaled living and learning spaces, providing more opportunities for interdisciplinary interaction

- Create new quads, including one adjacent to the new Sciences building, that connect to the historic quad in a meaningful way

- Plan landscapes that foster outdoor activity

- Consider future development outside of the core for only strategic or very long-term uses

- Strengthen pedestrian connections to existing precincts outside of the campus core, including to off-campus housing

- Remove and replace temporary structures by infilling their uses within existing or new structures

- Renovations should address building conditions, functionality, as well as health and safety and environmental constraints (such as the floodplain, ADA access, etc)

- Land use patterns should properly distribute residential and academic buildings as well as parking to create an active dynamic campus

- Establish an athletics precinct on campus which is robustly connected with trails, open spaces and bike paths
Campus Themes

Identity, Gateways, Wayfinding

Building upon identity, wayfinding, gateways and arrival on campus
Campus Themes
Identity, Gateways, Wayfinding

- **Use consistent University logos**, graphics, colors for all permanent and temporary signage on campus
- Develop consistent buildings, roads, and pathways signage
- **Strategically place campus maps** in kiosks for visitors and new students
- **Mark the points of entry to campus** with strong entry signage, landscape design and/or architectural feature, with a stronger emphasis on the curving entry boulevard from the north
Campus Themes
Pedestrian Experience

Improvements to walkability, pedestrian crossings, and student desire lines
Pedestrian Experience

- Create connections and **remove existing barriers** on major pedestrian desire lines

- **Bridge over topography** in key locations to create a more connected pedestrian network

- **Remove fencing** or portions of fencing which act as a barrier to the pedestrian network

- Create comfortable, **safe pedestrian paths** along roadways and safe crossings at key locations

- **Develop a consistent palette** of hardscape, landscape and lighting for pedestrian paths
Campus Themes
Vehicular Environment

Roadways, parking, transit and bike recommendations
Campus Themes

Vehicular Environment

- Plan for **parking that is accessible from the existing and future ring road**, but screened with landscaping

- **Minimize parking in the campus core**; existing lots should be evaluated for potential relocation where buildings or landscape would more appropriately contribute to the campus environment

- Consider a **porous parking surface** such as gravel, grass pavers, or structured grass for new parking areas outside of the core campus

- Eliminate road patterns which are confusing and intrusive; plan for **circulation routes that help create a more clear and unified whole**

- Continue to assess and provide for **infrastructure supporting public transit** and bikes such as bike shelters, bus shelters and information on bus routes
Campus Themes

Campus Life

Housing, living/learning, and opportunities for interdisciplinary interactions

- **Infuse existing housing with communal spaces** for teaching, learning, studying and informal gatherings

- **Plan for the replacement of obsolete, under-performing student housing** that negatively impacts campus connections, security, and open space networks with more communal housing typologies that provide for a range of public, semi-public, and private spaces

- Build new housing with **robust opportunities for “sticky” collisions** such as shared amenities, study nooks, classrooms, meeting rooms

- Locate new housing in precincts that could benefit from student activities such as sites which are intermingled with academic uses or directly adjacent an existing student residence to create a “sister building” and shared quad

- Renovate existing academic buildings to **create flexible teaching and research venues** to foster innovative teaching and learning models as well as cross disciplinary opportunities

- Strategically locate programs in buildings and throughout campus to **foster opportunities for collaboration**

- **Strategically locate campus life amenities**, particularly food-related, to encourage student interaction and overall campus vibrancy
Campus Themes

Campus Character

Design excellence, architectural and open space principles

- **Foster design excellence** in new building and landscape projects through **design competitions**

- Build to a scale and height that **responds to the context** - both in the historic core and in other precincts on campus

- **Connect new buildings into the landscape** and infrastructure of their surroundings so that they feel connected to **campus**

- **Design new buildings which respect the historic nature** of campus, yet create state of the art facilities

- Use building materials which **respond to the existing architecture** on campus
Continued commitment to sustainability

University of Maryland Eastern Shore President’s Climate Change Update: February 18, 2009

University of Maryland Eastern Shore has made remarkable strides in meeting our commitment within the provisions of the American Colleges & University Climate Commitment (ACUPCC) and the University System of Maryland (USM) Sustainability Initiatives. Since Dr. Thelma Thompson, UMES President, signed the commitment with ACUPCC, UMES has developed an effective organizational structure charged to implement the commitment. The Organization structure consists of a 26 member steering committee and 9 sub-committees that are working with the entire campus community in the development of the UMES Climate Action Plan. The committees are: GHG Inventory Committee, Stationary, Recycling & Solid Waster Committee, Energy Committee, Community Partnership Committee, Campus Master Plan & Architecture Committee, Student Engagement/Residence Life Committee, Academic Curriculum Committee, Campus Research, Agricultural Research & Institutional Data Committee, and the Transportation Committee. There are between 15-20 members that are representative of the campus community in each committee. The various committees will report to the steering committee and each committee has representatives from the steering committee. The University Liaison and co-chair is responsible for coordinating the overall climate change program with assistance from other co-chairs.

At the interim UMES has met its obligation with ACUPCC and submitted its Greenhouse Gas (GHG) inventory with strategies for reducing carbon footprint. Additional steps will include the implementation of new initiatives for strengthening research in clean energy, and the development of new academic curricula that is supportive of sustainability and the well-designed and built environment.

President’s Signing of the White House Act on Climate Pledge: November 12, 2015

Pledge:
As institutions of higher education, we applaud the progress already made to promote clean energy and climate action as we seek a comprehensive, ambitious agreement at the upcoming United Nations Climate Negotiations in Paris. Although we are optimistic that world leaders will reach an agreement to secure a transition to a low-carbon future, we recognize the urgent need to act now to avoid irreversible costs to our global community’s economic prosperity and public health. Today our school pledges to accelerate the transition to low-carbon energy while enhancing sustainable and resilient practices across our campuses.

We put forth our pledges as follows:
As a signatory in one of Second Nature’s three Climate Leadership Commitments, the University of Maryland Eastern Shore is part of a robust network of over 600 college and university presidents and chancellors who have committed their institutions to take bold and catalytic climate actions. These Climate Leadership Commitments are key driving forces for transformative change on our campus. As part of our commitment we will:

- Achieve carbon neutrality by 2050 and create thresholds for increasing climate resilience
- Make carbon neutrality and climate resilience a part of the curriculum and other educational experiences for all students
- Expand research in carbon neutrality and climate resilience
- Expand the on-site generated renewable energy (Photovoltaics) from 2.2 MW (12% of consumed energy on campus) to 6.6 MW over the next 10 years thus generating 36% of green consumed electricity on campus
- Construct two 2-MW wind turbines on the campus over the next 15 years, thus generating nearly 58% of green consumed energy on campus by year 2030
- Continue renewable energy development partnerships, and training for the students and in support of Maryland’s Eastern Shore Green Energy Workforce Development.
- Sustain “The Green Collar Initiative”, a collaborative project between a local utility and the University of Maryland Eastern Shore that aims to grow green jobs and promote green living
- Share renewable energy education with young students from within the surrounding community; tour our campus sustainability programs, initiatives, and renewable energy infrastructures; and learn what it means for a sustainable future.
Campus Themes

Sustainability

- Building
  - USGBC LEED Standards
  - Materials Standards
  - Mechanical/Electrical Equipment Standards
  - Roof Configuration

- Energy
  - Infrastructure Improvements
  - Green Power Production or Purchasing
  - Central Chiller Plant
  - Solar Farm
  - Biomass Energy Program
  - ETC...

- Site
  - Use Distribution
  - Clustering of Similar Functions
  - Campus Housing
  - Building Replacement/Site Planning
  - Building Footprints
  - ETC...

- Transportation
  - Campus Transit
  - Campus Bike Facilities
  - Campus Bike Sharing Program
  - Bike and Walking Paths
  - Alternative Fueling

- Water
  - Runoff/Stream Protection During Construction
  - Drought Resistant Landscaping
  - Sanitary Systems
  - Stormwater Management
  - ETC...
2016-2025 MASTER PLAN
Evolution of the Master Plan
Existing Plan | Existing Conditions

2008 Master Plan
For Reference

Existing Conditions

Legend:
- Existing Buildings
- Proposed Buildings
- Infrastructure
- Pond
- Forest
- Pond
- Stormwater Runoff
- Field

Existing Campus Conditions:
- Existing Building
- Existing Parking Lot
- Existing Athletic Field
- Existing Landscape Tree
- Existing Solar Field
Evolution of the Master Plan
Existing Conditions | 2016-2025 Master Plan

2016 Existing Conditions

For Reference

Existing Campus Conditions
- Existing Building
- Existing Parking Lot
- Existing Athletic Field
- Existing Landscape Tree
- Existing Solar Field

10 Year Master Plan

2016-2025

Proposed projects of the 10 YEAR MASTER PLAN are outlined for UMES and categorized as sites for new construction, campus life, major pedestrian paths, landscape & open space, gateways, transportation, and sustainability.

10 Year Master Plan
- Existing Building
- Proposed Building Project
- Existing Parking Lot
- Proposed Parking Lot
- Existing Athletic Field
- Proposed Athletic Field
- Existing Landscape Tree
- Proposed Landscape Tree
- Proposed Tree Cover
- Existing Solar Field

BEYER BLINDER BELLE

UNIVERSITY OF MARYLAND
EASTERN SHORE
2016–2025 Master Plan
Sites for New Construction & Planned Renovations

Potential Sites for Academic New Construction
NC2 New Frederick Douglass Library
NC5 Pharmacy & Health Professions (Phases I & II)
NC6 Agricultural Research and Education Center
NC8 Academic Building
NC9 Criminal Justice Center & Police Station
NC12 Academic Building

Potential Sites for Residential New Construction
NC3 Residential Dorm
NC4 Residential Dorm(s)
NC10 Hawk's Landing Expansion
NC11 Residential Dorm

Potential Sites for Athletics New Construction
NC12 Tawes Replacement
NC14 Field House
NC18 Potential Stadium Location (10,000 seat)

Potential Sites for Specialty or Support New Construction
NC1 Welcome Center
NC7 Farm Support (replacement facilities)
NC13 President's House (replacement)
NC15 Expanded WESM Radio Station
NC16 Potential Conference Center Option
NC17 Potential Conference Center Option

Planned Sites for Renovation
R1 Kiah Hall Renovation
R2 Carver Hall Renovation & Addition
R3 Wilson Hall Renovation
R4 Performing Arts Renovation & Addition
R5 Trigg Hall Renovation
R6 Arts & Technologies Building Renovation
R7 J. T. Williams Building Renovation
R8 Nuttle Hall Renovation
R9 Murphy Hall & Annex Renovation
R10 Court Plaza Renovation
R11 Plaza Residence Renovation
R12 University Terrace Renovation
2016-2025 Master Plan
Gateways

G1
Campus Gateway - Welcome Center

G2
Eastern Gateway

G3
Western Gateway
Campus Gateway Precedents
2016-2025 Master Plan
Gateway Precedents

Pedestrian Gate
Kenyon College

Allen Street Gate
Penn State

Allen Street Gate
Penn State

Main Entrance
University of Maryland – College Park

Rt. 1 Campus Entrance
University of Maryland – College Park

Three Gates Entry
University of California - Berkley
Welcome Center Precedents

WSU Visitor Center
Washington State University

Welcome Center and Bookstore
University of Texas - Dallas

Rutgers Visitor Center
Rutgers University

Wake Forest Welcome Center
Wake Forest University

Welcome Center and Bookstore
University of Texas - Dallas

Visitor Center
University of Texas – Pan American

WSU Visitor Center
Washington State University
2016-2025 Master Plan

Business Innovation Center

Microsoft NERD Center
Microsoft

Business Innovation Center
Bowie State

Dean Hubbard Center for Innovation & Entrepreneurship

Sheply Bulfinch – iLab
Harvard University

Dogpatch
New York

Dean Hubbard Center for Innovation & Entrepreneurship
Northwest Missouri State University
2016-2025 Master Plan

Major Pedestrian Paths

P1
McCain Walk

P2
Athletics Spine

P3
Campus Trail System

P4
Pedestrian Bridge
Pedestrian Oriented Streets

- University Place
  - Princeton University

- Interior Pedestrian Streets
  - Leigh University

- Pedestrian Street Connection
  - Leigh University

- Existing McCain Drive
  - UMES

- Williams Drive
  - Lehigh University

- Pedestrian Street
  - Leigh University
2016-2025 Master Plan
Pedestrian Oriented Streets

Existing McCain Drive
UMES

Proposed McCain Drive
UMES
2016-2025 Master Plan
Landscape & Open Space

L1 Gateway Allee
L2 Welcome Center Landscape
L3 Western Gateway Landscape
L4 Eastern Gateway Landscape
L5 Ropes Course
L6 New Quads
2016-2025 Master Plan

Transportation

T1
Ring Road Completion

T2-T10
Proposed Altered and New Parking Lots
2016-2025 Master Plan
New Campus Life

NC1  Welcome Center
NC2  New Douglass Library
NC3  Residential Dorm
NC4  Residential Dorm
CL1  Quad Pavilions
CL2  Convenience Retail
CL3  Faculty Club
2016-2025 Master Plan

Campus Pavilion Precedents

World Design Capital Pavilion
Aalto University

Cowboys Pavilion
University of Texas

Brochstein Pavilion
Rice University
2016-2025 Master Plan
Sustainability

S1  Levee Road
S2  Bike Paths
S3  Solar Fields
S4  Forest Conservation
2016-2025 Master Plan

Flood Protection

Hazard Mitigation Plan: Flood Wall Option

Master Plan: Proposed Integrated Landscape/Levee Option
2016-2025 Master Plan

Proposed Projects

Potential Sites for New Construction
NC1 Welcome Center
NC2 New Frederick Douglass Library
NC3 Residential Dorm
NC4 Residential Dorm(s)
NC5 Pharmacy & Health Professions
NC6 Agricultural Research and Education Center
NC7 Farm Support (replacement facilities)
NC8 Academic Building
NC9 Criminal Justice Center & Police Station
NC10 Hawk’s Landing Expansion
NC11 Residential Dorm
NC12 Tavres Replacement
NC13 President’s House (replacement)
NC14 Field House
NC15 Expanded WESM Radio Station
NC16 Potential Conference Center Location Option
NC17 Potential Conference Center Location Option
NC18 Potential Stadium Location (10,000 seat)

Planned Sites for Renovation
R1 Kirsh Hall Renovation
R2 Carver Hall Renovation & Addition
R3 Wilerson Hall Renovation
R4 Performing Arts Renovation & Addition
R5 Trigg Hall Renovation
R6 Arts & Technologies Building Renovation
R7 J. T. Williams Building Renovation
R8 Nutter Hall Renovation
R9 Murphy Hall & Annex Renovation
R10 Court Plaza Renovation
R11 Plaza Residence Renovation
R12 University Terrace Renovation

Gateways
G1 Campus Main Gateway
G2 Eastern Gateway
G3 Western Gateway

Major Pedestrian Paths
P1 McCain Walk
P2 Athletics Spine
P3 Campus Trail System
P4 Pedestrian Bridge

Landscape and Open Space
L1 Gateway Allee
L2 Welcome Center Landscape
L3 Western Gateway Landscape
L4 Eastern Gateway Landscape
L5 Ropes Course
L6-11 New Quads

Transportation
T1 Ring Road Completion
T2-T10 Proposed Altered and New Parking

Campus Life
CL1 Quad Pavilions
CL2 Convenience Retail
CL3 Faculty Club

Sustainability
S1 Levee Road
S2 Bike Paths
S3 Solar Fields
S4 Forest Conservation
FUTURE PHASE MASTER PLAN CONCEPTS
Future Phase Master Plan
Opportunity Sites

OS1 McCain Drive Intersection Site

OS2 Northern Gateway Site
Future Phase Master Plan

North Quad Landscape Character

Quaker Meeting House and Arts Center

Sidwell Friends School
Future Phase Master Plan
Opportunity Sites

OS3  Quad Infill

OS4  Track Infill
Future Phase Master Plan
Opportunity Sites

Sunken Gardens
William and Mary
Future Phase Master Plan
Opportunity Sites

OS5  Eastern Gateway Quad

OS6  Eastern Gateway
Future Phase Master Plan

Open Space & Landscape Network
2016-2025 Master Plan

10 Year Master Plan
- Existing Building
- Proposed Building Project
- Existing Parking Lot
- Proposed Parking Lot
- Existing Athletic Field
- Proposed Athletic Field
- Existing Landscape Tree
- Proposed Landscape Tree
- Proposed Tree Cover
- Existing Solar Field