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University of Maryland, Baltimore County
2018 Facilities Master Plan
Executive Summary





The 2018 Facilities Master Plan presents a comprehensive, long-term vision for UMBC's physical development. UMBC's plan is reflective of the university's academic mission, its institutional values and its impact on the landscape, the environment, and the surrounding community.

Executive Summary

UMBC Today

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Mission

UMBC is a dynamic public research university integrating teaching, research, and service to benefit the citizens of Maryland. As an Honors University, the campus offers academically talented students a strong undergraduate liberal arts foundation that prepares them for graduate and professional study, entry into the workforce, and community service and leadership. UMBC emphasizes science, engineering, information technology, human services, and public policy at the graduate level. UMBC contributes to the economic development of the state and the region through entrepreneurial initiatives, workforce training, K-16 partnerships, and technology commercialization in collaboration with public agencies and the corporate community. UMBC is dedicated to cultural and ethnic diversity, social responsibility, and lifelong learning.

UMBC ranked #7 among the nation's
"Most Innovative Schools"

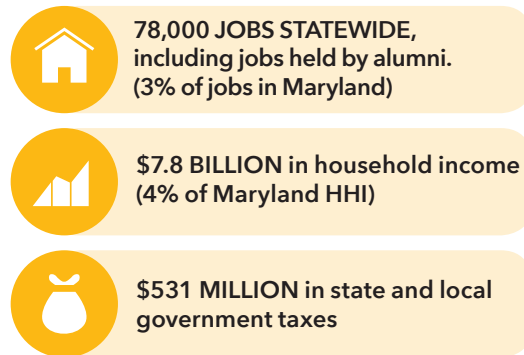
according to U.S. News & World Report
2018 Best Colleges Rankings



Established in 1966, UMBC is located just ten minutes from both downtown Baltimore and the Baltimore-Washington International Thurgood Marshall Airport. The 500-acre campus is situated in the midst of one of the most vibrant and collaborative research communities in the nation.

UMBC is recognized as a major resource for building the state's economy and addressing its social concerns. A majority of UMBC's alumni live and work in Maryland, contributing significantly to the state's economic and social vitality.

UMBC GENERATES:



Nearly 70% of our 70,000 alumni live in Maryland.

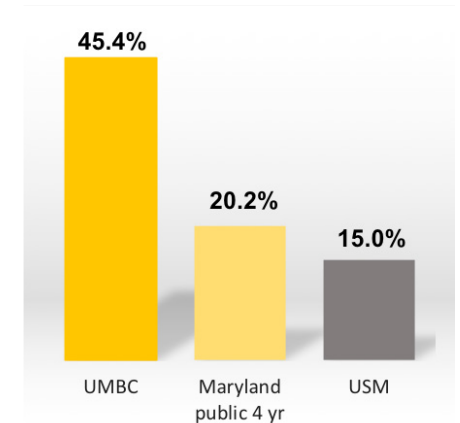
In 2017, the university awarded 2,571 bachelor's degrees, 631 master's degrees, 88 doctorates, and 124 graduate certificates. UMBC's commitment to innovative teaching, basic and applied research, and supportive community empowers and inspires inquisitive minds.

Over the past decade, UMBC's enrollment has expanded significantly. Total student headcount for fall 2017 is 13,662 students, an increase of 13.5% over the last ten years. This growth comes despite a drop off in enrollment nationally with the waning of the baby boom echo. UMBC is pursuing strategies to maintain

robust enrollment across existing and planned new academic programs to ensure that its contribution to Maryland's workforce and economy remains strong.

During the past ten years, undergraduate headcount enrollment in STEM majors has increased by 58 percent, greatly outpacing overall enrollment growth in the same period. In fall 2017, STEM majors accounted for 56 percent of all undergraduate enrollment.

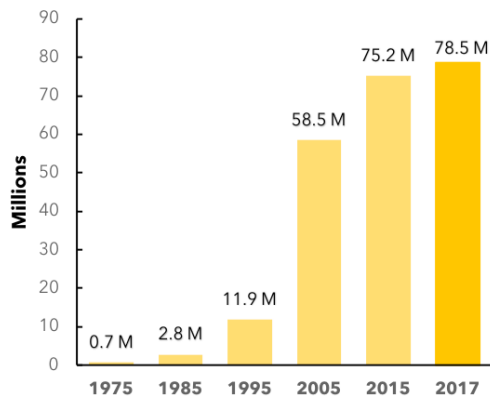
At just over 45 percent, UMBC has a higher percentage of STEM bachelor's degree recipients than any other public Maryland institution.



UMBC's student body continues to reflect the diversity of young people in Maryland. In fall 2017, the total minority population made up 47% of the student body, with African Americans comprising 17%, Asian Americans comprising 19%, and students of Hispanic origin comprising 7%.

UMBC is a thriving research university with nearly \$80 million in research expenditures in areas that help build Maryland's economy. UMBC is classified by the Carnegie Foundation as a Doctoral University - Higher Research Activity. *Times Higher Education* has twice named UMBC as one of the world's top young universities for strong research, innovation, and a global outlook.

UMBC's research expenditures have grown dramatically.



UMBC's areas of research growth are well aligned with regional and national priorities - environmental sciences, earth and space sciences, cybersecurity, big data and cognitive computing, health disparities, health technologies, life sciences, policy studies, digital arts, digital humanities, and education. UMBC's most successful, impactful research efforts are based on collaborations across the campus, with other academic institutions, and with government partners.

Inquiry is central to UMBC's curriculum. UMBC faculty actively seek collaborative research opportunities and consistently encourage students to obtain "real world" experiences via research, internships, co-op experiences, and service learning. Undergraduates at UMBC are given the rare opportunity to pursue their own research questions, with the support of faculty mentors.

Our research motto "Innovation That Matters" reflects UMBC's strong focus on translational and applied research. We thrive on the opportunity and experience that our work can have a direct impact - on the academic community, on our students, and on the world around us.

Synergies between research and economic development are enhanced through the bwtech@UMBC Research and Technology Park, located adjacent to the main campus. The bwtech@UMBC complex currently houses 130 companies and provides over 1,600 jobs, offering internship opportunities for students and is a leading generator of jobs and income for the region.

UMBC also prides itself on its cultural and athletics programs. Visual and performing arts programs draw an audience to the campus from throughout the Baltimore-Washington corridor. The Performing Arts and Humanities Building, completed in 2014, with a proscenium theatre, a black-box theatre, a concert hall, and a dance performance space, is a showcase of the performing arts. The campus hosts public visual arts exhibitions in the galleries of the Fine Arts Building and the Albin O. Kuhn Library, and has an active arts outreach program with area schools. UMBC Division I athletic teams host volleyball, track and field, lacrosse, swimming and diving, basketball, baseball, and softball events each year on campus that engage students, faculty, staff, alumni, and the public.



CAMPUS TODAY



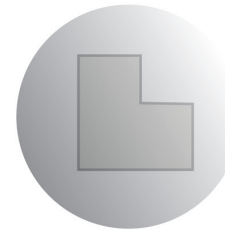
In 1963, the original campus was formed on 432 acres of mostly former farmland. Subsequent land acquisitions have increased the university's holdings on its main campus to nearly 500 acres. Within the main campus are a 41-acre research and technology park (bwtech@UMBC North) and a 67-acre Conservation and Environmental Research Area (CERA). The greater campus includes a nearby 30-acre complex on a site overlooking I-95 where the university has developed the bwtech@UMBC South Incubator and Accelerator.

Historic Campus Development

The original master plan concentrated the majority of the academic core in a compact grid of nine blocks on one of the hilliest sections of the site. The compact nature of the original development and the strong axial relationship focused on the Library building allowed for utility development in a grid of tunnels below the buildings. This practical and systematic approach to planning predominated over the desire for consistency of architectural language, the creation of formal open spaces, or the richness of landscape elements that define other older universities.

The other principle defining element of the campus is Hilltop Circle which surrounds the academic core. This road was planned to facilitate access to parking and services, while relieving the original academic core of vehicular congestion. The development of Hilltop Circle and the lack of through roads has created a pedestrian-oriented core, mostly free of pedestrian and vehicular conflicts.

UMBC master plans have evolved over the years with each one building upon the previous plan. Since the 2009 Facilities Master Plan Update, transformations have continued with new buildings, open spaces, and other site improvements. The changes have made a significant positive impact on how students, faculty, staff, and visitors both perceive the university and inhabit the campus.



4.0 million

Gross Square Feet (GSF)



2.2 million

Net Assignable Square Feet (NASF)



258 thousand

Teaching Space (NASF)



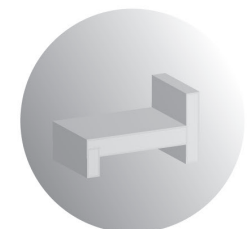
152 thousand

Research Space (NASF)



73

Main Campus Buildings



4 thousand

Beds in Residential Communities



Some of the major campus improvements since 2009 include:

- Construction of the Performing Arts and Humanities Building
- Construction of a 192 bed addition to Patapsco Hall
- Renovation of 21 buildings of the Terrace, Hillside, and West Hill Apartment communities
- Library Pond improvements to enhance water quality and control runoff of rainwater
- Installation of green roofs on the Administration Building, Patapsco Hall, and Apartment Community Center
- Construction of the UMBC Event Center, which supports athletics, as well as campus and public events
- Renovation of the Preschool Center
- Construction of the Apartment Community Center
- Renovation of Potomac Hall

Since the 2009 Facilities Master Plan Update, UMBC has constructed 687,000 GSF of new buildings on campus and substantially renewed over 145,000 NASF of campus space.

The university takes great pride in the improvement of its outdoor spaces and roadways. In conjunction with each capital project, new open spaces have been built and existing ones renovated. The primary campus entrance along UMBC Boulevard has been transformed into a safe and effective portal which improves the visitor experience.



STRATEGIC PLAN FOR ADVANCING EXCELLENCE

UMBC's Strategic Plan provides a focused, complementary set of goals, strategies, and recommendations to guide faculty, staff, students, and alumni as we further UMBC's evolution as a nationally and internationally recognized public research university. The 2018 UMBC Facilities Master Plan aligns campus development with the four fundamental elements of academic excellence addressed in UMBC's Strategic Plan.

The Student Experience

Create vibrant, exceptional, and comprehensive undergraduate and graduate student experiences that integrate in- and out-of-classroom learning to prepare graduates for meaningful careers and civic and personal lives.

The following key strategic goals and supporting objectives influenced the 2018 UMBC Facilities Master Plan:

- Continue to build a campus culture that creates, supports, and expects applied learning experiences that present a wide variety of options for all students (e.g., study abroad, internships, cooperative education, service learning, engaged scholarship, artistic performance, and teaching and graduate assistantships).
- Promote the health and well-being of students as a foundation for academic and life success.
- Expand the amount, type, and utilization of informal space on and off campus that is available to students to study together, collaborate on creative work, recreate, socialize, or interact with faculty and staff. These spaces should create opportunities for informal peer-to-peer communication and relationships that increase sense of community, retention, and graduation rates.
- Improve student services to significantly increase students' satisfaction with hours, availability, and responsiveness of

services used and needed by undergraduate and graduate students, including access to off-campus services, venues, and social opportunities.

Collective Impact in Research, Scholarship, and Creative Achievement

Elevate UMBC as a nationally and internationally recognized research university strongly connected with the economic and civic life of the Baltimore region and the State of Maryland.

The following key strategic goals and supporting objectives influenced the 2018 UMBC Facilities Master Plan:

- Increase national prominence in selected multidisciplinary areas spanning the arts, engineering, humanities, information technology, natural sciences and mathematics, and social sciences. Potential focus areas for the development of multidisciplinary scholarship, creative activity, and research excellence include, but are not limited to, environmental studies, health, national security, data science, and civically engaged and global/transnational scholarship.
- Position UMBC faculty to win prestigious national and international awards and honors for scholarship, creative activities, and research and grow UMBC's funded research portfolio to achieve annual research expenditures that consistently place the university among the top 150 institutions in the nation.
- Improve infrastructure and support for research, creative activities, and scholarship by investing in state-of-the-art research facilities and equipment such as shared instrumentation, studio space, and library resources.

Innovative Curriculum and Pedagogy

Develop innovative curricula and academic programs that support and enhance the success of our undergraduate and graduate students and prepare them for meaningful careers, lifelong learning, and engaged citizenship; and thereby enhance our position as a national leader in undergraduate and graduate education.

The following key strategic goals and supporting objectives influenced the 2018 UMBC Facilities Master Plan:

- Provide exemplary support for educators in creating state-of-the-art undergraduate and graduate curricula delivered through innovative and effective approaches to teaching and learning.
- Enhance the capacity of the Faculty Development Center to provide support for research on and training in best pedagogical practices and transform it into the Center for Teaching Excellence (CTE).
- Increase the size and diversity of full-time faculty and their engagement in first- and second-year student learning experiences.
- Expand campus-wide capacity for graduate education, increasing graduate assistant stipends, providing pedagogical training, and increasing the availability of informal learning spaces.
- Provide state-of-the-art learning spaces, both formal and informal, which support both the best of traditional pedagogies and new evidence-based practices.
- Reorganize the way classrooms are designed and redesigned to take full account of the perspective of classroom faculty and students with regard to space quality and usefulness.

Community and Extended Connections

Build, nurture, and extend connections with diverse internal and external partners to enrich campus life, local neighborhoods, the state, and the surrounding region. Foster innovative problem-solving and responsible entrepreneurship through strategic partnerships with alumni, government agencies, businesses, and community-based organizations to create a sustainable and prosperous future for all.

The following key strategic goals and supporting objectives influenced the 2018 UMBC Facilities Master Plan:

- Promote a campus-wide culture that recognizes, supports, catalyzes, and celebrates collaboration and partnerships with groups at the local, state, regional, national, and international levels, including the K-12 education system.
- Advance UMBC's regional reputation as a vital stakeholder in Maryland's innovation economy.
- Strengthen UMBC's position as an anchor institution for the greater Baltimore metropolitan region.
- Strengthen and grow UMBC's research and technology park, bwtech@UMBC, leveraging UMBC's strengths and alignment with Maryland's needs and opportunities.
- Use campus facilities to leverage community connections.

BUILDING THE VISION

The entire campus community was engaged in a year-long process to develop the 2018 Facilities Master Plan. A series of projects are required to address current space deficits and future space needs to support UMBC's teaching, research, and service mission and growing student population.

The implementation plan guides future campus development, with each project supporting one of several planning goals:

VITALIZE THE HEART OF THE CAMPUS with the renewal of the Albin O. Kuhn Library, open space, and recreation improvements, and additions to The Commons to support student life activities and student services.

EXPAND THE EAST ACADEMIC DISTRICT with pedestrian improvements and new academic and research buildings framing a campus quadrangle.

RENEW THE ACADEMIC CORE with renovations to aging academic buildings, new interdisciplinary academic and research buildings, and the renewal of the Retriever Activities Center.

CREATE A NEW RESIDENTIAL VILLAGE to increase capacity and integrate student amenities like dining, study, and hands-on learning in true living/learning communities.

EXPAND OPPORTUNITIES FOR RECREATION, ATHLETICS, AND PRIVATE-PUBLIC PARTNERSHIPS with new and renovated recreation facilities, enhancements to the Retriever Soccer Park, and identifying an area for new partnership opportunities.

PROPOSED PROJECTS

Academic and Research

- Albin O. Kuhn Library & Gallery renewal
- Biological Sciences Building (north wing) renovation
- East Academic and Research Building
- Global, Cultural, and Visual Studies Building
- Interdisciplinary Life Sciences Building
- Math & Psychology Building renovation
- Northeast Academic and Research Building
- Sherman Hall renovation
- Sondheim Hall renovation
- West Academic and Research Building

Student Affairs

- Informal Recreation Park
- Outdoor Recreation Facility
- Retriever Activities Center renewal
- Retriever Soccer Park improvements
- Student Services/Student Life Building
- The Commons improvements and additions

Residential

- East Residential Community with Dining
- West Residential Community with Learning Commons

Parking and Circulation

- East Parking Garage
- West Parking Garage
- Westland Boulevard realignment

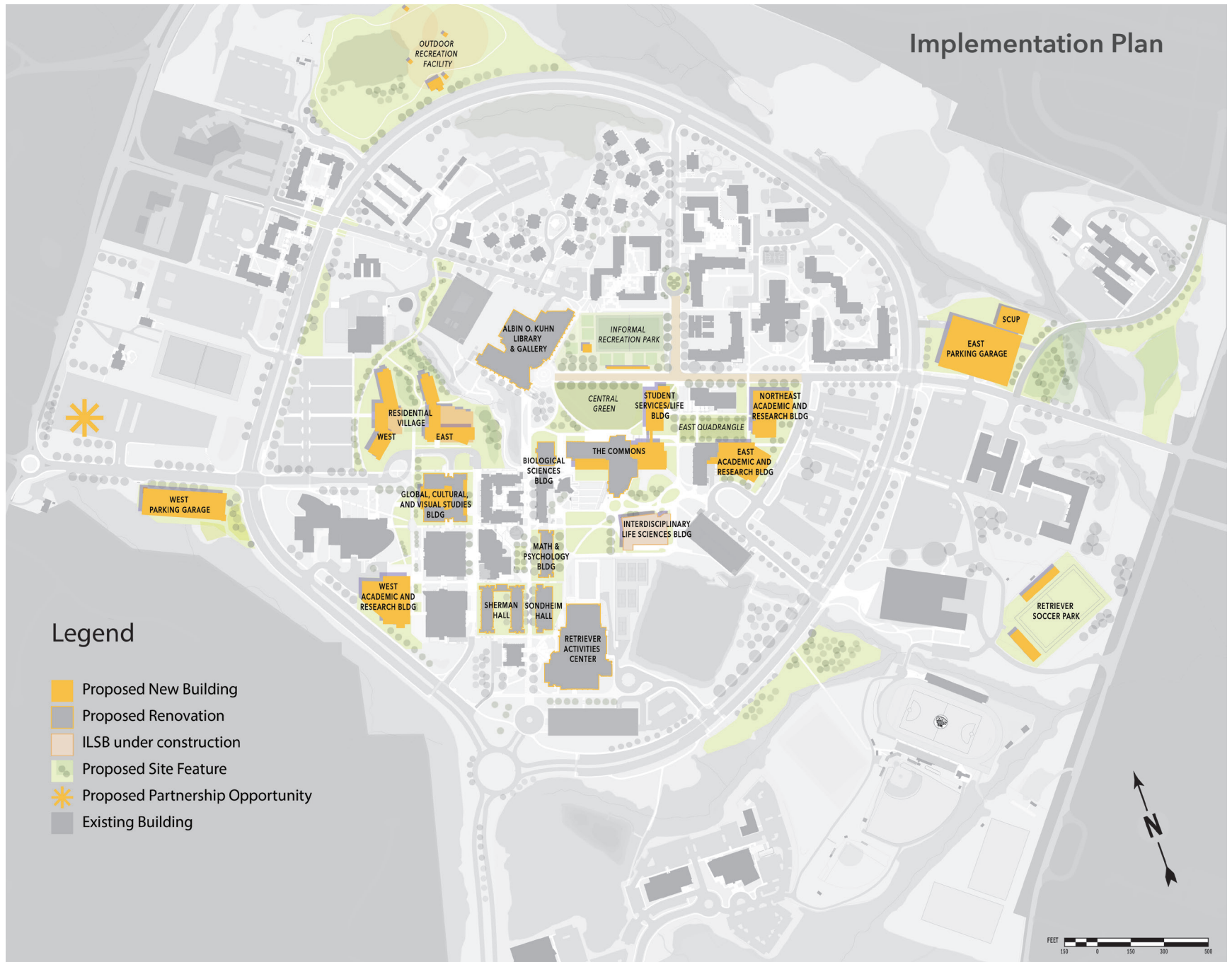
Campus Support and Site Improvements

- Central Green
- Central Utility Plant equipment upgrades
- Center Road and Poplar Avenue pedestrianization
- Satellite Central Utility Plant

Public Private Partnerships

- Innovation District

Implementation Plan



PLAN FEATURES: VITALIZE THE HEART OF THE CAMPUS

The center of the campus, framed by the Albin O. Kuhn Library & Gallery and The Commons, is the place where all students - commuter and resident - come together. This area has historically been defined by large, unfinished, open spaces crisscrossed by pedestrian paths.

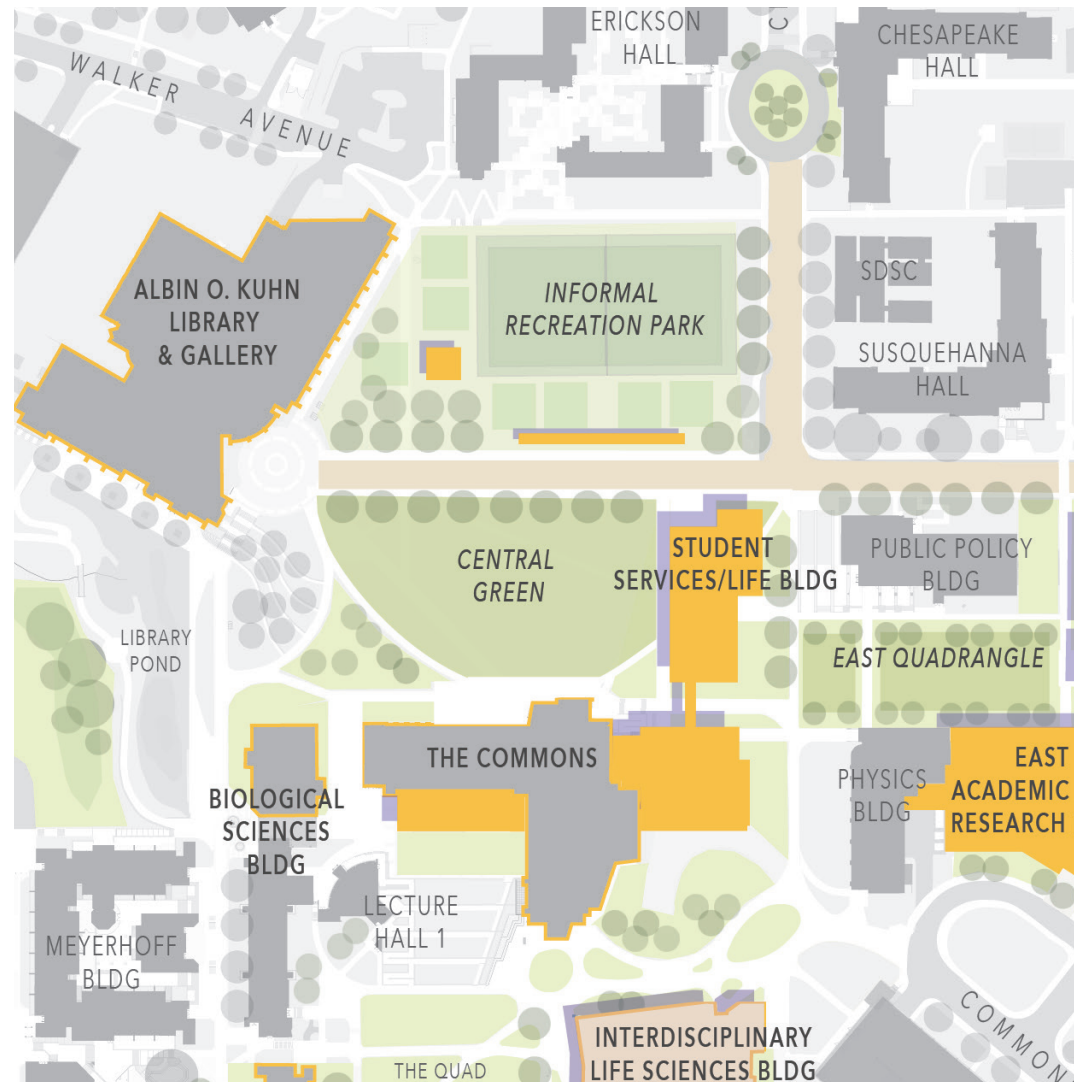
The proposed new facilities and outdoor places will support students throughout their academic careers. For students, this area will remain the heart of the campus and student life, from the first campus visit, to registering for classes, to meeting life-long friends, up to researching one's dissertation.

Creation of a new informal recreation park

Transformation of a low lying, over-used informal field into a park-like setting for student recreation will include a shortened play field, several courts for games, a pavilion for outdoor events, and outdoor seating.

Additions and interior improvements to The Commons

Several phases of improvements to adapt the building to expanding student enrollment will address shortages of meeting, dining, and kitchen space.



Transformation of the Albin O. Kuhn Library & Gallery

Transformation of the library to a learning commons will better serve students, faculty, and the public, by expanding student group study spaces, developing shared 3D visualization and maker labs, dedicating areas for faculty and graduate research, and replacing book stacks with high-density storage shelving.

Consolidation of Student Services in a Student Services/ Student Life Building

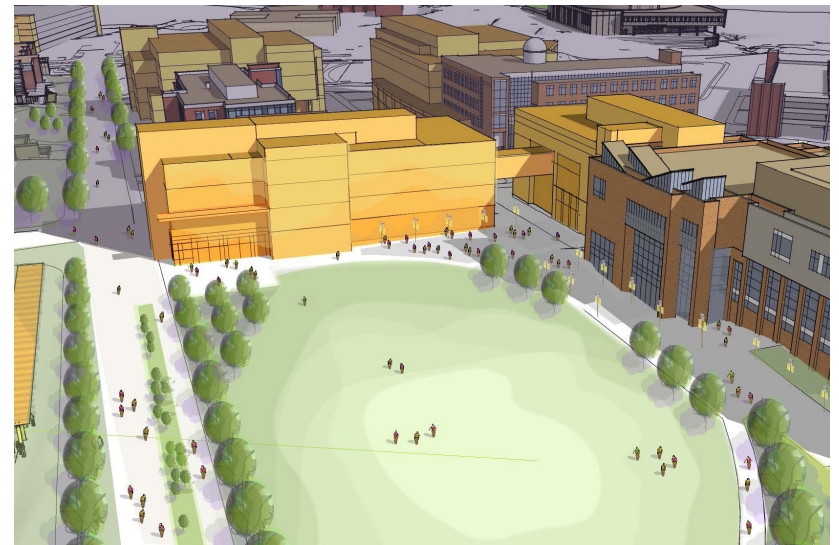
Complementing The Commons, this facility will consolidate currently scattered student services on campus, creating a hub of student-centered activity. Diverse units will be brought together that provide key student services such as academic support, admissions, enrollment management, financial aid, and disability services.

Completion of the Central Green

The Central Green will transform the large open space to the north of The Commons into an iconic and memorable outdoor space. The tree-lined green will allow for study, relaxing, and informal activities while adjoining plaza areas will encourage congregation and socializing.



Informal Recreation Park



Student Services/Student Life Building and the Central Green

PLAN FEATURES: EXPAND THE EAST ACADEMIC DISTRICT

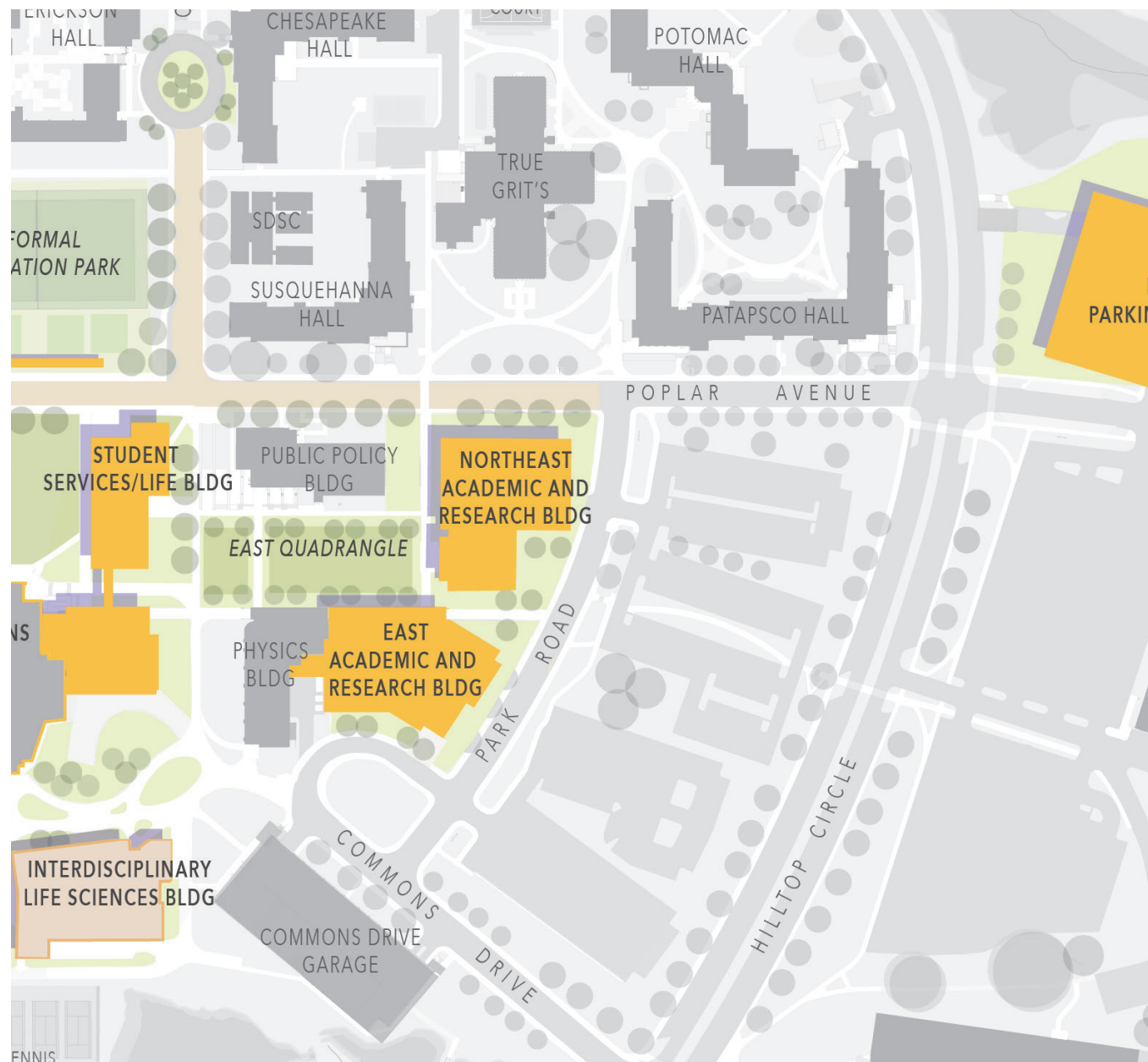
Between 2000 and 2003 the campus added the Physics Building and the Public Policy Building, creating an academic district east of the academic core. The proposed development plan expands this district with three new academic buildings, a new parking garage, satellite central utility plant, and improved pedestrian outdoor spaces and paths. The first phase of this plan is currently under way with construction of the Interdisciplinary Life Sciences Building. Two additional buildings are sited over small parking lots to the west of Park Road and oriented to complete a new campus quadrangle. The expansion of the precinct will extend the pedestrian zone of the campus to the east.

Completion of the Interdisciplinary Life Sciences Building

When the 133,267 GSF Interdisciplinary Life Sciences Building opens in the fall of 2019 it will transform teaching and research on campus. The building will provide over 700 student stations in multi-disciplinary teaching labs and active-learning classrooms, 35,000 GSF of modern research laboratories, and 8,000 GSF of core facilities, including a new vivarium, to foster interdisciplinary life sciences research.

Construction of two new academic and research buildings creating an academic quadrangle

The proposed 160,000 GSF East Academic and Research Building, sited adjacent to the Physics Building, could support ongoing partnerships in space science research, collaborations with NASA,



and UMBC's renowned physics, astrophysics, and atmospheric science programs.

The Northeast Academic and Research Building will address teaching and research space deficits and could support advanced environmental, water quality, and earth science research.

Upon completion of the new academic and research buildings, critical research functions could be moved from the functionally obsolete Technology Research Center to the heart of the campus, supporting both undergraduate and graduate student research.

Pedestrianization of Center Road and Poplar Avenue

Potential conflicts between vehicles and pedestrians will be reduced by removal of a limited-use through-street. Center Road will end in a vehicular turn-around circle. The existing street between this new circle and the intersection of Park Road and Poplar Avenue will become pedestrian except for controlled access reserved for emergency and service vehicles, when appropriate.

Construction of an east parking garage and satellite central utility plant (SCUP), along with realignment of Westland Boulevard

A new five-level, 1,500 space east parking garage and satellite central utility plant at the corner of Poplar Avenue and Hilltop Circle will support the east academic district. The garage will be accessed from both Hilltop Circle and the north via the new extension and realignment of Westland Boulevard. The realignment will create a more functional relationship to Arbutus, improve safety, and ease traffic on Hilltop Circle.



Interdisciplinary Life Sciences Building



Two Academic and Research Buildings Framing a New Quadrangle

PLAN FEATURES: RENEW THE ACADEMIC CORE

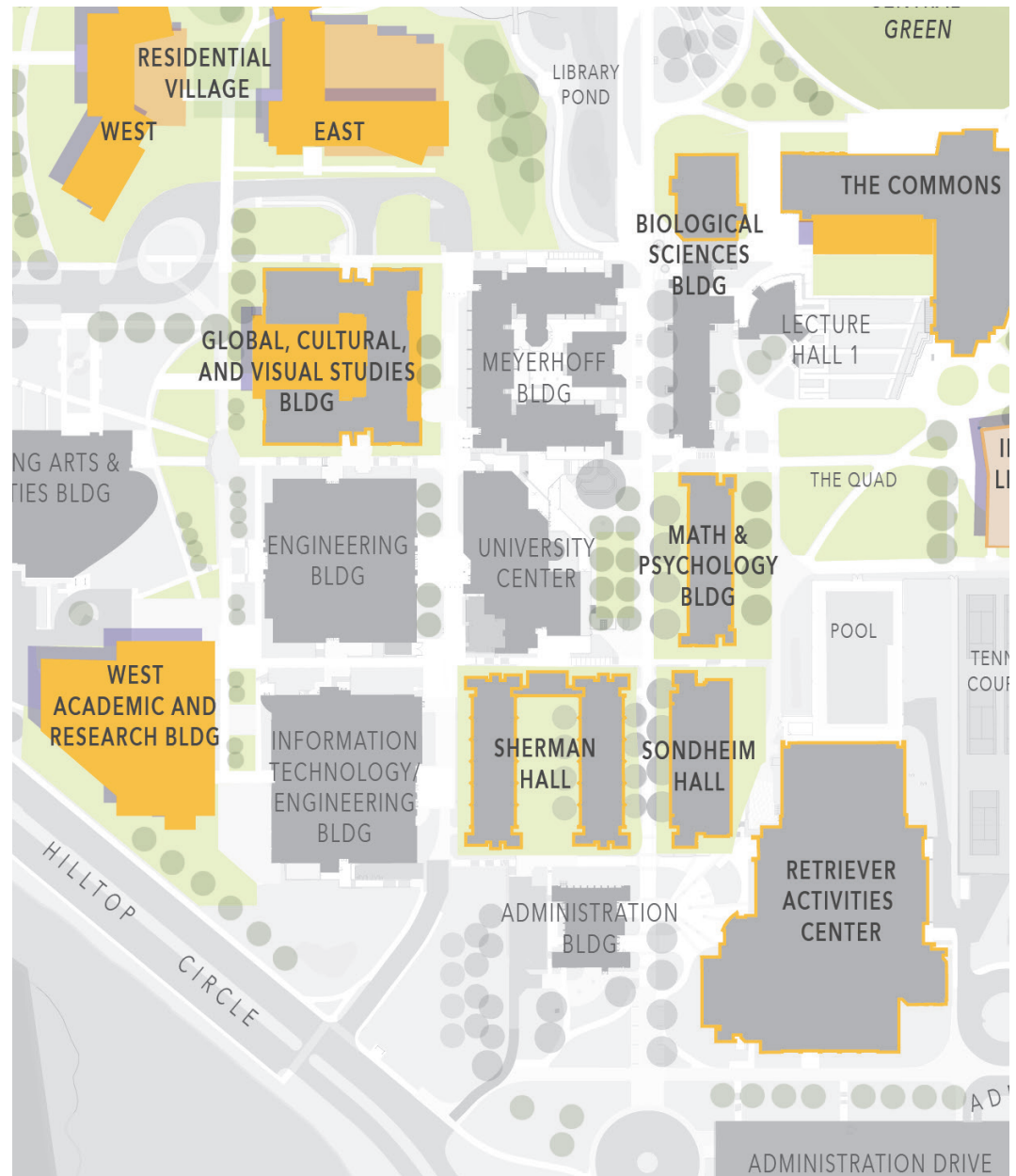
The academic core is a rich concentration of teaching, offices, and research facilities, mixed with student support services and athletics and recreation programs. Comprising some of the oldest and newest campus buildings, the Academic Core is a well-travelled pedestrian zone with students, faculty, staff, and campus visitors.

As good environmental stewards, renewal of the campus's oldest buildings will optimize use of existing resources and support the goals and objectives of UMBC's strategic plan.

A new academic and research building will support new and existing computing programs. With each proposed project, pedestrian paths will be upgraded, utility services to buildings improved, new plazas developed, and stormwater management features integrated as a working landscape.

Renewal of the Retriever Activities Center into a health and wellness facility

Completion of the new UMBC Event Center provides the university with a unique opportunity to renovate this aging facility, while supporting and expanding health and wellness programs on campus.



Renovation of the Fine Arts Building into the Global, Cultural, and Visual Studies Building

The Global, Cultural, and Visual Studies Building project will renovate and add to the existing 166,989 GSF Fine Arts Building. The project will address failing building systems, extending the life of this 1972 building. It includes architectural modifications to address changing program needs, especially for the Visual Arts department, and to correct life safety deficiencies and building circulation problems.

Renovation of the Biological Sciences Building north wing

The north wing of the Biological Sciences Building will be partially vacated when the Interdisciplinary Life Sciences Building is completed in 2019, allowing the wing to be renovated and repurposed for other critical teaching and research functions.

Renovation of existing academic buildings

Three additional existing buildings are nearing the end of their useful life and need renovation. The 45-year-old Sondheim Hall supports three research intensive programs and has the highest density of classrooms of any academic building. The 48-year-old Math & Psychology Building supports a mixture of academic programs, student services, and teaching facilities. The 38-year-old Sherman Hall is a large u-shaped building supporting numerous academic programs.

Each building will be fully renovated, replacing mechanical and life safety systems, upgrading the envelope, and improving teaching facilities.



West Academic and Research Building

Construction of a new academic and research building

Sited adjacent to the Engineering Building and the Information Technology / Engineering Building, this new academic and research building will focus on supporting expanding computing, cybersecurity, and engineering programs.

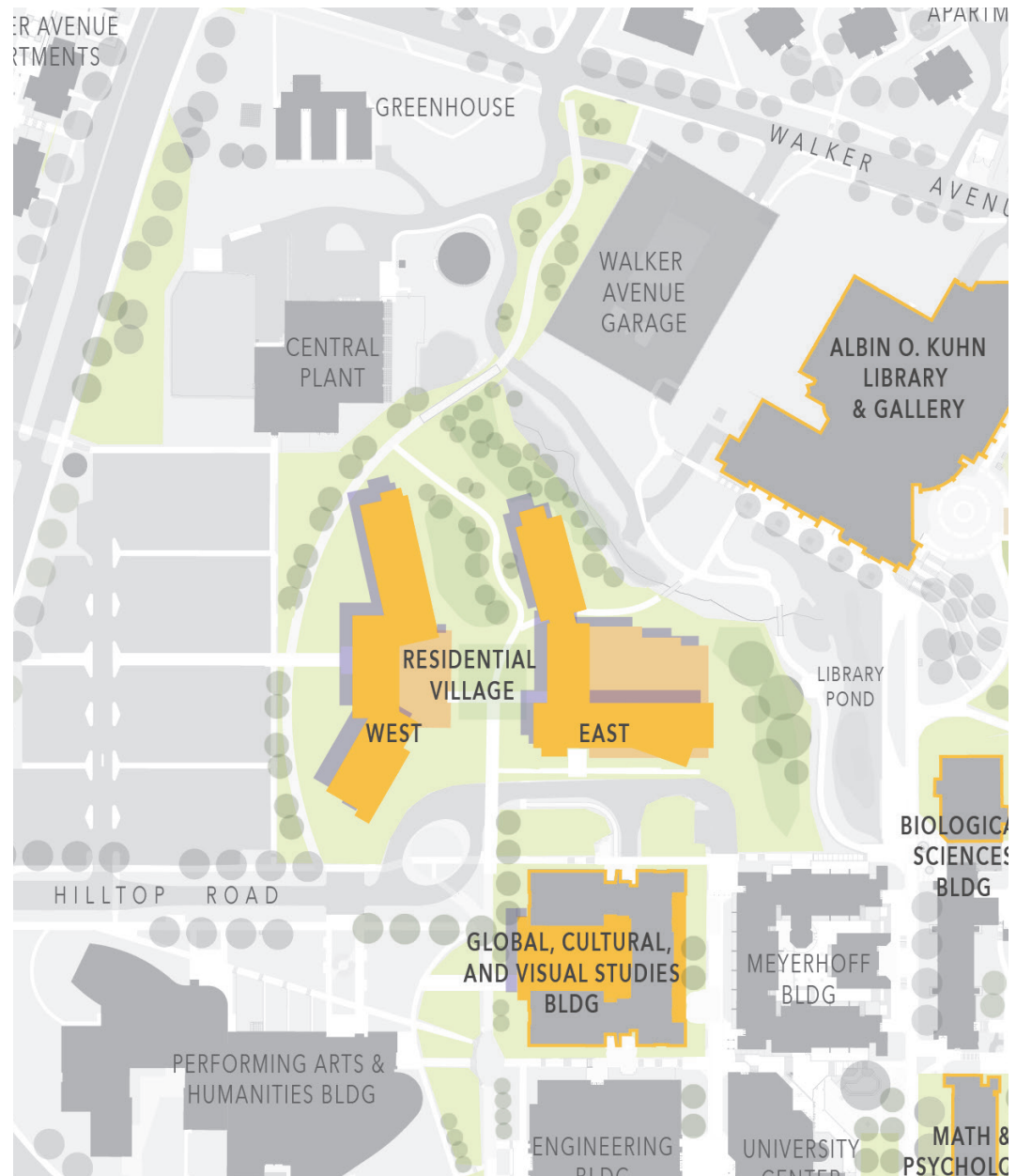
The facility will create much needed teaching labs, fabrication labs, and core research facilities to provide students and faculty opportunities for interdisciplinary exploration and innovation.

PLAN FEATURES: CREATE A NEW RESIDENTIAL VILLAGE

Since 2009, the university has focused on improving existing campus housing with full rehabilitation of all of the apartment communities, partial renovations of Patapsco, Potomac, Chesapeake, and Susquehanna Halls, and improvements in Erickson Hall. Except for the 192 bed addition to Patapsco Hall, the university has not added new beds on campus since 2004 when the Walker Avenue Apartments were built.

A new residential village will provide diverse housing types, integrated learning facilities, and other amenities like dining, lounges, and study space. These dynamic living-learning communities will encourage students to live on campus until attaining their degrees.

The location, just north of the Global, Cultural, and Visual Studies Building, is currently a grassy field accessed from Hilltop Road, and bordered on the north by a stream. The new residential village will have desirable views over the Library Pond and the campus to the east extending to the Baltimore City skyline.



View of the Residential
Village from the West



New phased residential community supported by dining, study, and teaching spaces

A new residential community, closely aligned with the academic core, will accommodate student growth, support vibrant student experiences, encourage student retention, and enrich the experience for residential students.

The east residential buildings will provide amenities that encourage social interaction and a strong sense of community among its residents. A new dining facility, overlooking the Library Pond and Central Green, will be integrated into the new residential communities and serve residents, as well as commuter students, faculty, and staff.

The west residential community will include academic and study facilities, organized to create a learning commons focused on supporting student success.

Pedestrian pathway improvements to connect residential communities on Walker Avenue

The development of the residential village will allow the university to better knit the academic core with the residential apartment communities along Walker Avenue by providing new pedestrian and bicycling paths. Key to this connectivity is a pedestrian bridge over the ravine east of the Central Utility Plant.

MEASURES OF SUCCESS

A measure of the success of a facility master plan is what it will allow the university to become. Through the thoughtful engagement of the campus community over many months and countless meetings, UMBC has developed a plan that provides the framework to continue its trajectory of sustained excellence. The 2018 Facilities Master Plan:

1 Aligns campus development with UMBC's strategic plan.

Our UMBC: A Strategic Plan for Advancing Excellence serves as a road map with numerous recommendations to enhance research, scholarship, and creative achievement to support the student experience, to support the development of innovative curriculum and pedagogy, and to build community and extended connections. The plan relies upon the availability of physical resources to support these recommendations.

The university is currently experiencing acute shortages in many types of space including:

- teaching laboratories supporting project-based learning pedagogies;
- hands-on student fabrication and 3D modeling studios;
- research laboratories and core facilities supporting digital humanities, cybersecurity, engineering, and space sciences, among others;
- health and wellness, recreation, meeting, study, and student-centered activity areas that support a vibrant student life; and,
- residential and dining.

A combination of new and renovated buildings and site features will provide the physical resources necessary to advance the recommendations of the strategic plan and address these space shortages.



1.1 million

New Buildings (GSF)



1.0 million

Total Renovations (GSF)



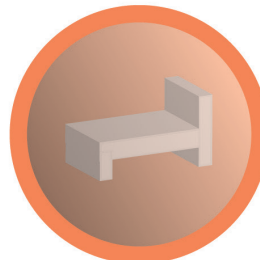
650 thousand

Additional Teaching and
Research Space (GSF)



450 thousand

Additional Student
Affairs Space (GSF)



640

Additional Beds



3

New or Renovated
Recreation Facilities

2 Provides for enrollment growth in an intentional manner.

The university will continue to attract high-caliber students, elite faculty, and dedicated staff from throughout the state, the region, and the world. The campus needs to grow in a deliberate manner to meet demand. The proposed development plan will be implemented incrementally, providing new facilities required to support the student population, new and evolving academic and research programs, and the extended university community.

The proposed addition of new academic buildings and residential facilities, indoor and outdoor recreation areas, and parking facilities ultimately will support a future student population of 18,000.

3 Assures that the campus is welcoming and accessible.

UMBC's hilly terrain and numerous streams create challenges which are addressed in the 2018 Facilities Master Plan. New pedestrian paths and bridges will connect the academic core to residential communities and athletic facilities. Thoughtful placement of new buildings, renovations of existing buildings, new recreation facilities, parking, and paths will serve to remove physical barriers and ensure that the campus is accessible to all. Furthermore, the development plan ensures that UMBC continues to serve as a public resource that provides cultural, athletic, and recreation opportunities, in addition to scholarly engagement.

4 Promotes meaningful interactions through thoughtful planning.

Proposed siting of new buildings will continue to bridge between disciplines and promote collaborative research. New buildings such as The Commons addition and Student Life/Student Services Building will address current shortages of meeting spaces for events, clubs, and social groups. The planned creation of interior and outdoor meeting places will contribute to the further development of a dynamic campus community and vibrant student life.



5 Advances carbon neutrality and protects the natural environment through responsible stewardship.

As a public institution, UMBC serves as a model for exemplifying operating efficiency, preserving open space, controlling and improving the quality of water run-off, and encouraging alternatives to single occupancy commuting. The importance that the university places on sustainability and highlights efforts to reduce our environmental impact and strengthen our resilience to the effects of climate change strongly influenced the 2018 Facilities Master Plan. Focus areas include:

- Energy Efficiency: upgrading our existing physical plant and building control systems, installation of more efficient lighting, and continued implementation of high performance building criteria for the design of all projects.
- Environmental Enhancement and Education: protecting our abundant natural environment and resources, continued management of wooded research areas, and implementing programs and practices to educate students, faculty, and staff which hones environmental consciousness.
- Stormwater Management: integrating new wetlands, working landscapes, and green roofs to control and treat run-off and proposes to treat and reduce untreated paved areas throughout the campus.
- Carbon Reduction: providing facility enhancements that promote commuting alternatives such as carpooling, electric vehicle charging, bicycling, and transit.

6 Optimizes utilization of existing resources.

The need for critical new facilities to support expanding programs must be balanced with the need to remain good stewards of the existing campus. In order to optimize use of existing buildings, the development plan includes numerous renewal projects to extend the life of the campus's oldest buildings and utility system upgrades to improve reliability and minimize increases in operating costs.

7 Encourages interdisciplinary scholarship and research through purposeful adjacencies.

The pursuit of scholarly and creative advancement will be strengthened with proposed development that supports innovation and collaboration across all colleges. All of the new academic and research buildings are envisioned to support multiple academic disciplines and research centers. The development of an innovation district provides an opportunity to create meaningful partnerships that serve a greater community, work to create social change, and incentivize local businesses.





ACKNOWLEDGEMENTS

UMBC involved over two hundred people on campus in the development of the 2018 Facilities Master Plan. This truly has been a team effort of which we are proud.

The university would like to acknowledge the contributions of these individuals, organizations, and committees:

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Steering Committee

Philip Rous, Provost and Senior Vice President for Academic Affairs

Lynne Schaefer, Vice President for Administration and Finance

Greg Simmons, Vice President for Institutional Advancement

Karl Steiner, Vice President for Research

Jack Suess, Vice President for Information Technology

Nancy Young, Vice President for Student Affairs

Ten Stakeholder Groups

Council of Vice Presidents and Deans

President's Council

Shared Governance

Faculty Senate

Non-Exempt Staff Senate

Professional Staff Senate

Graduate Student Association

Student Government Association

Landscape and Stewardship Committee

Classroom Committee

Neighbor Relations Group

Southwest Community Leaders

The Facilities Management Master Plan Development Team

Lenn Caron, Assistant Vice President for Facilities Management

Julianne Simpson, Director of Planning

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Celso Guitian, Campus Planner

Heather Bishop, Facilities Planner

Tomasz Argasinski, DCS Project Manager

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The logo for the University of Maryland, Baltimore (UMBC). It features the letters "UMBC" in a large, red, serif font.

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For the full 2018 Facilities Master Plan see
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