CAPITAL OUTLAY PLAN



EASTERN MICHIGAN UNIVERSITY

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EXECUTIVE SUMMARY

GameAbove College of Engineering and Technology Complex – Phase II Advanced Technology Center

Eastern Michigan University is pleased to present this Capital Outlay Plan for FY 2025 in which the University outlines its request for funding for the Engineering and Technology Complex – Phase II: Advanced Technology Center.

With the completion of \$130M in renovations and additions to the Science Complex, Eastern Michigan University has turned its attention to meet the strong demand throughout Michigan for qualified engineering and advanced technology students through programs in our GameAbove College of Engineering and Technology (GACET).

Through planning and benchmarking, the University and the College have reviewed current and planned programs to develop a Master Plan to support short and long-term GACET goals. With rapid growth in our existing advanced technology programs such as Cybersecurity, Information Assurance, Embedded Technology, Drone and Aviation Studies as well as expansions and additions to engineering programs such as Mechanical, Electrical and Computer, Civil Engineering, the College projects a 65% growth in enrollment in the next 10-15 years. Demographics have indicated 72% of our reachable alumni remain in Michigan. This continues to demonstrate the benefits of these programs to the state as a whole.

The GACET Master Plan includes a two-phased approach to (1) "right-size" the College for the current student population, and (2) "increase and optimize" space for the needs of an increased enrollment for new and future program offerings.

INITIAL LOCALLY FUNDED EFFORT

To meet the initial needs of right-sizing, Phase I was designed to modernize and expand Sill Hall. Originally submitted as the University's FY2019 State Capital Outlay Request, the urgent space and facility needs following the creation of Mechanical, Electrical and Computer Engineering programs dictated an immediate start to this effort. As such, Phase I was locally funded by Eastern Michigan University in December 2017. The project, which included renovations and an addition, provided advanced research and teaching labs, advanced classrooms and student collaborative spaces, and replacement of all outdated building systems was completed for the Fall 2020 semester.

The University now turns its attention to Phase II to increase and optimize space for the needs of increased enrollment and expanding programs. Focusing primarily on advanced technology programs, the Phase II Advanced Technology Complex will renovate and expand Roosevelt Hall, increasing space utilization efficiencies, and aligning program use with building systems. The effort will also relocate technology programs from Sill Hall to allow for the continued growth of the engineering programs.

STATE CAPITAL OUTLAY REQUEST FY 2025

Roosevelt Hall, built in 1924 as a High School for the Ypsilanti Public Schools, and purchased by Eastern Michigan University in 1973, has served a multitude of uses for the GACET. Last renovated in 1973, Roosevelt Hall contains 75,639 sf, and houses the Schools of Cyber Security & Applied Computing (CSAC), Technology & Professional Services Management (STPSM), and components of Visual and Built Environments (SVBE). Additionally, Roosevelt Hall has been the base of operation for EMU's Military Science and Leadership Department and the Reserved Officers Training Corp (ROTC) program.

Programmatically, the Cyber Security/Information Assurance and Information Technology programs have witnessed a 16% increase in student enrollment and a 25% increase in overall course load. New advanced degrees in Cyber Security and Information Technology continue this trend.

The Aviation programs, housed in STPSM, have also increased 17% in enrollment over the last five years in response to a significant shortage of pilots worldwide. Current and future integration of our Drone Technology programs with the flight programs demonstrates our commitment to be on the cutting edge of technology in all programs.

Condition Assessments have identified Roosevelt Hall as among the top ten University facilities in greatest need for renovation with nearly \$14.5 million in deferred maintenance needs. Combining the programmatic improvement needs with the necessary replacement and improvements in building systems, building envelope and learning environment will provide an effective and efficient means of meeting the second phase requirements of the GACET Master Plan.

The projected project cost for the Engineering and Technology Complex – Phase II: Advanced Technology Center is \$42.5 million. The project timeline is three years from design approval through construction completion. Initial programming is complete with further programming and schematic design exercises to follow. The University and GACET stand ready to begin work upon approval.

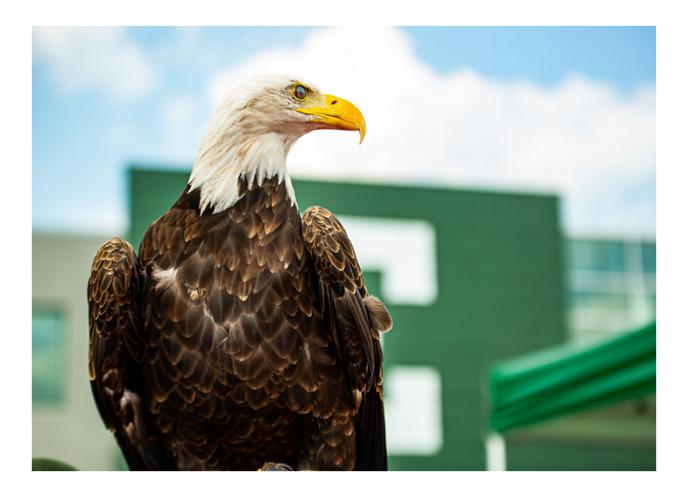
ABOUT EASTERN MICHIGAN UNIVERSITY

Established in 1849 as the Michigan State Normal School, EMU has played an important role in providing higher education to the students of Michigan, the Midwest region, the United States and countries around the globe. With approximately 87% of our students originating from Michigan and approximately 72% of these students remaining in Michigan following graduation, an investment in EMU is an investment back into the state of Michigan.

Throughout its history, EMU has enriched the lives of the citizens of Michigan by developing countless teaching, business, health and human services, technology and STEM professionals

who have gone on to make meaningful contributions to society and the local and national economies.

The University has accomplished this by providing an exceptional learning environment that accommodates the diverse mission and specialized delivery of instruction that meets the expectation of our students and their parents, business and industry, and the state. An exceptional learning environment requires facilities that are up-to-date and can accommodate the technologies that are now woven throughout every discipline.



MISSION STATEMENT VISION CORE VALUES

MISSION

Eastern Michigan University enriches lives in a supportive, intellectually dynamic and diverse community. Our dedicated faculty balance teaching and research to prepare students with relevant skills and real world awareness. We are an institution of opportunity where students learn in and beyond the classroom to benefit the local and global communities.

VISION

Eastern Michigan University will be a premier public university recognized for student-centered learning, high quality academic programs and community impact.

CORE VALUES:

Excellence - We provide an exceptional environment to our faculty, staff, and students. We improve our performance continuously and strive to be the best in everything we do.

Respect – We care for our people, communities, and the environment and show respect for the dignity of the individual.

Inclusiveness – We create an environment that supports, represents, embraces, and engages members of diverse groups and identities.

Responsibility – We are accountable – individually and in teams – for our behaviors, actions and results. We keep commitments.

Integrity – Integrity and transparency are critical to our institutional effectiveness. We pursue the highest level of personal, intellectual, academic, financial, and operational integrity within the University community.



INSTRUCTIONAL PROGRAMMING

EXECUTIVE SUMMARY THE COLLEGES OTHER ACADEMIC UNITS

EXECUTIVE SUMMARY

The University was founded by the State of Michigan in 1849. Then called Michigan State Normal School, its primary purpose was to educate teachers. In 1956, Michigan State Normal College became Eastern Michigan College, and in June 1959, then comprising three Colleges and a Graduate school, it became Eastern Michigan University.

Today, Eastern Michigan University is a comprehensive Undergraduate and Graduate institution, offering over 140 Undergraduate majors and curricula leading to a broad spectrum of Baccalaureates and over 130 Graduate concentrations leading to the Master's, Specialist's, and Doctoral degrees. Its focus is on preparing students to succeed beyond graduation by emphasizing a personal approach to education in which the student is the center of the learning experience. The University prides itself on putting "Education First."

The University is fully accredited by the Higher Learning Commission (HLC) of the North Central Association (NCA) of Colleges and Schools. More than 100 national and international professional organizations provide focused accreditations at the college, department, and program levels.

The University's Division of Academic Affairs comprises five academic Colleges: the College of Arts and Sciences (CAS), the College of Health and Human Services (CHHS), the College of Business (COB), the College of Education (COE), and the GameAbove College of Engineering & Technology (GACET). The Division is further supported by a comprehensive Honors College, Graduate School, Office of Research Development and Administration, Engage EMU, and the Bruce T. Halle Library (LIB).

THE COLLEGES

College of Arts and Sciences

The College of Arts and Sciences (CAS) was established in during the 1959-60 academic year when EMU became a University. The College currently is the largest in the University, with 18 Departments and Schools (Art; Africology and African American Studies; Biology; Chemistry; Communications, Media and Theatre Arts; Computer Science; Economics; English Language and Literature; Geography and Geology; History and Philosophy; Mathematics; Music and Dance; Political Science; Physics and Astronomy; Psychology; Sociology, Anthropology and Criminology; Women and Gender Studies; and World Languages). Graduate Studies in the College expanded rapidly from two degrees in 1960 (History and Literature) to degrees in all departments by 1969. Beginning in Fall 2001, the College began offering a Ph.D. in Clinical Psychology, the first Ph.D. at EMU.

For a perspective of the size and complexity, the College of Arts & Sciences:

- Generates more than half of EMU's student credit hours.
- Employs slightly more than half of the University's faculty.
- Uses all or part of 13 buildings.
- Offers nearly all of the general education courses, which provide the foundation for specialized work in major programs.
- Maintains over 100 Undergraduate and 50 Graduate programs.
- Includes over 5,000 Undergraduate and 600 Graduate majors each year.
- Awards more than 1,200 Undergraduate and 250 Graduate degrees annually.

The College is also proud of the following attributes:

- It exhibits student research and creativity in its annual Undergraduate Research Symposium.
- Maintains the federally funded (a) Sailing Ocean Literacy Grant; (b) DUETS Urban Education Grant; (c) TCATTE English-As-A-Second-Language Grant; and the (d) Creative Science Inquiries Experience Program (CSIE).
- Hosts the Institute for Geospatial Research (IGRE) has received major grants from NOAA, Michigan Department of Natural Resources, NASA, and NSF.
- Every Department in the College participates in the education of teachers through specific methods course offerings.

College of Health & Human Services

The College of Health and Human Services (CHHS) prepares professionals with the knowledge and skills to enhance quality of life for Michigan residents and facilitate social change. The College's schools include: Health Promotion and Human Performance, Health Sciences, Nursing, and Social Work. The College of Health and Human Services is located in the Porter Building, the Warner Building, Roosevelt Hall, and the Marshall Building. Administrative space is provided in the Marshall Building for the Dean's office and three of the four schools, as well as laboratories and classrooms for the whole College. Roosevelt and Warner provide classroom and laboratory space, and Porter houses the School of Health Promotion and Human Performance.

With the State of Michigan's push to support health and human service programming, the population of undergraduate and graduate students has increased in the college, becoming the second largest at EMU. Classroom and office space are at a premium. There is a possibility of increasing the number of students in some of the existing programs as well as adding new programs if our need for more classroom, laboratory as well as research space is met. Furthermore, the CHHS has hired new research faculty over the past few years, and with the 2009 addition of a doctoral program in Nursing Education, steady expansion of faculty/student, interdisciplinary-research collaborations are anticipated. The first class of students in the new Physician Assistants program entered in 2014. The program's facility needs were met with an upgrade to Rackham Hall and a unique partnership of sharing space at St. Joseph Hospital. Under these circumstances, the CHHS has proposed a three-prong strategy to address its facility needs.

- First, the Warner facility needs major renovation: heating and cooling, classrooms, existing labs, etc.
- Second, acquiring additional space in the Bowen and Warner buildings, and
- Third, the future expansion to the Marshall Building, for office and research needs is critical to grant acquisition and contract services for on and off-campus constituents as well as to meet accreditation requirements.

To address the first component of the CHHS strategy regarding the Warner building, a multidisciplinary Running Science Laboratory provides central coordination and support services to researchers. The center is comprised of a variety of laboratories such as movement technology, performance testing, simulation, sensory integration, body composition and wet laboratories. Currently at EMU, similar research institutes, such as the Coatings Research Institute, thrive and can serve as a model for this endeavor.

While most proposals will serve one or two major research efforts, this one benefits a College whose percent increase in enrollment and new faculty hiring outpaces the rest of the campus.

EMU has made a strategic decision to grow research capacity. While EMU has been a stellar, accredited, comprehensive university for more than 170 years, it enjoyed 75% state support in

the 1970s and now receives approximately 25% of its revenues from state funding. Seeking revenue from grants and contracts to achieve our mission has become an important goal.

Several programs in the College of Health and Human Services are accredited by disciplinary organizations, which frequently list standards for quality of program space especially with regards to research space:

<u>School of Health Promotion and Human Performance</u> - Athletic training accredited by the Commission on Accreditation of Allied Health Education Programs and the Joint Review Committee on Education Planning and Athletic Training; health education accredited by the Michigan Department of Education/National Council for the Accreditation of Teacher Education; orthotics and prosthetics is accredited by the National Commission on Orthotics and Prosthetics Education; physical education is accredited by the National Association of Sport and Physical Education/National Council for the Accreditation of Teacher Education.

<u>School of Health Sciences</u> - Clinical laboratory sciences program accredited by the National Accreditation Agency for Clinical Laboratory Sciences; occupational therapy accredited by the Accreditation Council for Occupational Therapy Education; dietetics accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association.)

<u>School of Nursing</u> - Accredited by the Commission on Collegiate Nursing Education.

<u>School of Social Work</u> - Accredited by the Council on Social Work Education.

<u>Physician Assistant Program</u> – Accreditation-Provisional status granted by the Accreditation Review Commission on Education for the Physician Assistant.

College of Business

The College of Business was formed in 1964 and has grown to be the third-largest college at Eastern. Branded as "Innovative, Applied and Global", it has been selected as one of the "Best Business Schools" every year since 2003 by the *Princeton Review*. The College is accredited by the AACSB International (The Association to Advance Collegiate Schools of Business), a distinction shared by fewer than 5% of the schools worldwide that grant business degrees. The College offers 10 Undergraduate majors, 10 Undergraduate minors and seven graduate degree programs in four departments: Accounting and Finance, Computer Information Systems, Management, and Marketing. It is the only business school in the country to offer a Master of Science in Integrated Marketing Communications and offers the only graduate program in Human Resources in China. Its Professional Education Center provides executive education for a variety of corporations and non-profit organizations. The College is supported by multiple business advisory boards to ensure the relevance of curriculum and to increase interaction with the business community. Additionally, the College has partnership agreements with Universities in China, Korea, India, Malaysia, Pakistan, Germany, France, Spain, Belgium and Yemen.

The region's economic development has been enhanced through centers of excellence within the College of Business. The Center for Entrepreneurship (CFE), which supports the development of new enterprise and provides no-cost services to entrepreneurs and small businesses, plays a vital role in the entrepreneurial infrastructure of southeastern Michigan. Annually, the CFE sponsors the SESI Midwest Entrepreneurship Conference, a pitch competition, the Skandalaris Business Plan Competition (attracting more than 100 plans each year in high-school and college categories), and a speaker series. The College and CFE were instrumental in opening a business incubator, partnering with Ann Arbor SPARK (a regional economic development organization), in downtown Ypsilanti. The CFE collaborates closely with the EMU-hosted Southeast Michigan Region Small Business Development Center (SBDC) that serves Macomb, Oakland, and Wayne Counties. In 2019, the SBDC served 1203 businesses, facilitated the launch of 43 start-up organizations and 254 new jobs, accounting for new capital investment of \$34.9 million. The Center for Digital Engagement (CDE) has amassed a growing reputation as a premier digital-marketing resource for the region through its annual Digital Marketing Workshop (that attracts capacity audiences from around the area) and Summer Digital Clinic, along with recurring seminars/workshops for the area's business and student communities. In 2020, the CDE's Digital Clinic received 426 applications from students around the country, from which 48 were selected to serve digital-marketing internships with 24 regional start-up organizations. The Sales Center has provided critical professional development for many who now occupy vital roles in the sales forces of organizations through the region. A new Special Needs Planning and Policy Center (a collaboration with the College of Health and Human Services) is the first university-affiliated entity in the nation to address planning for financial services (such as trusts and guardianships) for those with special needs a large and growing population with disproportionate numbers in southeastern Michigan.

In addition to the College's undergraduate majors and minors and the MBA, its specialized graduate and certificate programs in accounting, business analytics, finance, human resources

and organizational development, information systems, integrated marketing communications, taxation, and web and mobile technologies provide credentials and certification to professionals throughout Southeast Michigan. Through its affiliations with Bloomberg Experiential Learning, the Chartered Financial Analyst Institute, Microsoft Dynamics, SAP University Alliances, the Society for Human Resource Management, and the University Sales Center Alliance, the College offers the state-of-the-art preparation needed by regional businesses. In addition to the world's premier accreditation and recognition by Princeton Review as a Best Business School, the College has amassed specialized rankings for its programs in entrepreneurship, global business, human resources and organizational development, integrated marketing communication, management, sales, and taxation.

The College of Business continues to experience a rich diversity within its undergraduate and graduate students – representing the ethnic and socio-economic diversity of the region as well as having a significant international component. The University's international student population represents over 40 different countries, many of which are also represented at the College of Business. The graduate programs are offered at night to meet the needs of adult learners as well as undergraduate courses that allow students to complete their degree programs in a timely manner while working outside the classroom in the community.

As of November 2022, the University finalized the sale of the Gary M. Owen building to a private developer, which was the previous home of the College of Business in downtown Ypsilanti. The University has moved the College of Business instructional and administrative functions to central campus by utilizing open academic space for instruction, and temporary swing space across campus for faculty and staff offices.

The University has begun planning the relocation of the University's College of Business. The University is currently working with the College of Business administration, faculty and staff through an assessment of programmatic needs. The University is currently planning on a \$15 million renovation to be a multi-year project financed through operational capital plans. Once the programmatic assessment is completed, the renovation and relocation effort will be expected to take three years to complete.

College of Education

For 174 years, Eastern Michigan University's College of Education (COE) has played a major state and national role in the preparation of teachers, other school personnel and related professionals. Eastern has a historic and valued place as the first "Normal School" West of the Allegheny Mountains. Eastern was among the first institutions involved with the preparation of physical and special education teachers. The College of Education is one of the nation's largest preparers of professional education personnel, offering programs at the Bachelor's, Master's, Specialist's and Doctoral degree levels. The College's programs have received a number of national recognitions, are fully accredited and are Charter members of the National Council for the Accreditation of Teacher Education (NCATE), and are approved by the Michigan Department of Education. In almost every instance where a program-specific national recognition exists, the EMU College of Education holds this recognition at the highest level.

Through its Office of Urban, Community, and International Outreach (OUCIO), the College has created numerous partnerships with local school districts that are interested in enhancing a variety of school improvement activities. The OUCIO has also established strong new partnerships with the Detroit Public Schools and the Charles H. Wright Museum of African American History. The office supports a growing number of international partnerships and programs and is home to two distinguished Chairs—the Morris Chair and the Porter Chair. Additionally, the OUCIO and its Minority Achievement Retention and Success (MARS) Program have been instrumental in the recruiting, retention, and achievement of our minority students.

Graduates from the College of Education are highly prized and are aggressively recruited at the national level. Our alumni hold many distinctions, including the Pulitzer Prize, National Student Teacher of the Year and National Teacher of the Year, and serve as presidents or executives of major national professional organizations. In addition, 26 COE graduates have received the prestigious Milken Family Foundation Award for teaching excellence in the classroom. Finally, over 500 of our students become certified teachers each year.

In July 1999, the College of Education was relocated to the John W. Porter Building. This building was a \$13,816,000 renovation of the former campus library that was authorized in Public Act 19 (P.A. 19) of 1993. Since 1999 college resources have been used to refresh and address expanded technology needs. With continued and additional expansion of technology and users, the facility requirements for the EMU College of Education is being addressed through a more stable refreshment program as we continue to deliver our comprehensive and diversified academic programs.

Most programs in the College of Education are nationally accredited by disciplinary organizations, which frequently list standards for quality of program space:

Department of Leadership and Counseling - Leadership programs are accredited by the National Council for the Accreditation of Teacher Education. Community, college and school counseling programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs.

Department of Special Education - Speech-language pathology program accredited by the American Speech-Hearing Association; hearing impaired program accredited by the Council on Education for the Deaf. The department is nationally accredited by the Council for Exceptional Children and the National Council for the Accreditation of Teacher Education.

Department of Teacher Education - Accredited by the National Council for the Accreditation of Teacher Education, the Association for Childhood Education International, the International Reading Association, and the National Association for the Education of Young Children.

GameAbove College of Engineering & Technology

The GameAbove College of Engineering & Technology (GACET) is dedicated to excellence in the delivery of 27 professional programs in Mechanical Engineering, Applied Engineering Technology (10 programs), Applied Management (10), Applied Design (5) and in Military Science and Leadership. In 2017, the University's Board of Regents approved new programs in Mechanical Engineering, and Computer and Electrical Engineering. In February 2020, the University approved new programs in Civil Engineering. These new programs provide further evidence of the University's dedication to building out a comprehensive engineering program within the GACET.

The GACET is also proud of its research and training activities in textiles, polymers and coatings, and police and fire staff training. Program offerings are based on the philosophy that applied, project-based problem solving enhances learning and that application of knowledge is a key driver in the creation and discovery of new knowledge. Graduates of GACET programs are well prepared to function in an ever-changing, global technological environment and to assume leadership roles in organizations, corporations, government agencies, and institutions of higher education throughout the world. Today's GACET has become an integral component of the University's mission, allowing students to be better prepared to compete globally. With a reputation for achievement and innovation, the GACET continues to meet the changing needs of students and employers. GACET programs are ideal "engines" for addressing state and federal government's priorities for enhancing Science, Technology, Engineering and Mathematics (STEM) education and the country's STEM-educated work force.

The University and its Board of Regents recognize that the creation of the new Mechanical, Computer, Electrical and Civil Engineering programs is important as it represents a growth opportunity for the University. Beyond the campus, these programs are important as the graduates of these programs are in high demand within the state's employment needs and demographics. By modifying existing programs and creating new programs, GameAbove College of Engineering & Technology faculty respond quickly to industrial demands for trained professionals. A great barrier to program development is the shortage of appropriate facilities and the less-than-adequate teaching and laboratory environments for instructional and research activities.

The GameAbove College of Engineering & Technology operates within three buildings.

- The Coatings Research Institute (1987; 8,000 safe), the newest building, is small and only provides laboratory spaces for coatings research and analysis.
- Sill Hall (1965; 107,335 s.f.), the largest building, was originally programmed for fine arts and industrial arts activities. Today, the industrial labs are still used for engineering technology and construction management courses, but the fine arts spaces were long ago converted for computer, electronics, and chemical laboratories, and classrooms. The University funded a \$40 million renovation project to modernize, update and expand Sill Hall. This project was completed for the Fall 2020 semester.

Roosevelt Hall (1924; 75,639 s.f.) was originally programmed as a high school. In 1973, it was renovated to accommodate Military Science and home economics activities. Today, many of the spaces have been renovated again, with various levels of success, to accommodate computer laboratories, design studios and classrooms. Roosevelt Hall is the State Capital Outlay Request for this submission.

EMU addressed the needs of Sill Hall with a \$40 million self-funded capital project. However, even after completion, the University will still be undersized for engineering program space compared to peers and industry averages. Following the Sill Hall renovation and expansion, EMU expects to have 88 gsf/student, compared to the 100 gsf/student that comparable universities have for the programs within the GameAbove College of Engineering/Technology.

In 2016, the University commissioned a planning study for the GameAbove College of Engineering & Technology. The planning effort created a Master Plan for the college addressing current shortfalls in space allocation and facility condition and abilities, as well as providing options to meet current and planned growth for the new and planned programs such as the engineering and technology programs. The Master Plan recommended several small, short-term projects, as well as focused attention and detail to major renovation and expansion projects:

- Renovation and expansion of Sill Hall; to "right-size" facility space and infrastructure for current programs and the immediate needs of the added engineering programs. This was completed for the Fall 2020 semester,
- Renovation of Roosevelt Hall to right-size and upgrade facilities for many of the other advanced technology programs within the GameAbove College of Engineering & Technology, and
- The University recognizes that following the completion of the Roosevelt Hall renovation, additional expansion is necessary for the further expansion of the GameAbove College of Engineering & Technology's engineering programs. The University continues to assess the possible options for where this is most beneficial.

The College projects growth from the current 2,100 students to approximately 3,800-4,000 students (an increase of more than 75%) in the next 10-15-year period. Demographic studies have indicated approximately 72% of Eastern Michigan students stay and work in Michigan following graduation.

In summary, GACET programs and courses require significant hands-on laboratory resources. GACET has done well in maximizing its use of its presently allocated space; however, to truly allow students to achieve their potential as STEM-educated graduates, provisions must be made for program growth and modernization of program spaces and infrastructure.

Other Academic Units

Engage EMU

The Office of Engage@EMU is the University's front door to cultivating and navigating relationships and partnerships between the University and business, education and community. In FY23 Engage operated 39 on-going grants in education, community and economic development, health & safety, prevention, and academic service-learning and oversaw 401 unique personnel including educators, consultants, students, full-time administrators and professional staff, and faculty.

The staff in Engage are University connectors, conveners and collaborators working with government, schools, non-profits, businesses and individuals. Recent examples include: Census & Voter Information and Engagement, Get Out The Vote (GOTV) Coordination, and the EMU PPE Project which created and provided over 8,000 masks and face shields to the city of Ypsilanti, Ypsilanti Community Schools and Michigan Medicine. Engage staff serve on several organizational boards such as the Jewish Federation of Greater A2, A2Y Chamber, ULink, Ann Arbor YMCA, Dollars for Scholars, My Brother's Keeper, Washtenaw Area Council for Youth (WACY), and the Ann Arbor Area Community Foundation Arts and Cultural

Engage is organized in three areas: Business, Academic and Community.

Business. Professional Programs and Training (PPAT) is housed under business. Generating \$800,000 in annual gross revenue, EMU Professional Programs & Training (EMU PPAT) serves over 1,500 workers, managers and professionals each year in non-credit professional development, credentialing, and test prep programs in topics such as occupational safety and health, quality and continuous improvement, polymers and coatings, education, social work, nonprofit management, human resource management, business and technology. PPAT is home to the Great Lakes OSHA Training Institute.

Credentialing through EMU PPAT includes continuing education units (CEUs) as well as industryspecific credentials such as State Continuing Education Clock Hours (SCECH) for educators through the Michigan Department of Education (MDE) and social work continuing education through the EMU School of Social Work and the Michigan Social Work Collaborative. It also coordinates and oversees Digital Badging. In 2022 it launched PROEMU, a three year initiative to promote and develop alternative credentials with EMU faculty and staff.

Test-prep includes programs for the GRE, GMAT and LSAT as well as industry certifications such as Society for Human Resource Management (SHRM) and Project Management Professional (PMP.) EMU PPAT programs are offered in multiple formats. With the closure of EMU satellite sites in Livonia, Brighton and Detroit, open-enrollment professional programs have recently been held on-campus in several garden level Boone Hall professional classrooms dedicated for this purpose or, occasionally, other available campus venues. Online and virtual programs are held in EMU's Canvas Learning Management System and Zoom. Contract training is held on-site for local and regional companies. PPAT along with our Testing Center require an accessible, vendor compliant, professional space. Such a space is critical to EMU's focus in cultivating more non-credit initiatives and business engagement programs.

Academic. Under our academic banner we house our academic service learning programs, courses and training (since 1997) as well as grants dedicated to supporting the integration of community and teaching. Annually we support over 30 courses which integrate community practice and programming.

Also, under the academic banner is Eastern Scholars, our concurrent enrollment program and Camps. Our Scholars' program provides EMU college courses in high schools around the state face-to-face or virtually. Our Camps program brings outside community to our campus where we utilize the assets of EMU, faculty expertise, students and facilitates to provide unique camp experiences middle-school through high school.

In Fall of 2023 we launched the first bachelor's program for incarcerated individuals at Women's Huron Valley Correctional Center. EMU's College in Prison Program, is the first public university to offer a bachelor's program within a Michigan prison. EMU faculty from all colleges are providing face to face instruction 6 days a week.

Community. Under our community area, we operate notable, longstanding community-based programs such as: Upward Bound, The Family Empowerment Program (a supportive services program for all Ypsilanti Housing Commission residents), EMU Bright Futures (out-of-school programming located in 22 schools and three districts, SEMIS (teacher development program), Prevention@EMU which provides evidence base ATOD prevention classes to hundreds of Washtenaw county middle and high school students, community members and EMU students.

Additionally, the Legal Resource Center, located in the Washtenaw County courthouse, provides low cost paralegal support service to Washtenaw County residents in partnership with EMU's Paralegal program.

Finally, in partnership with the YMCA, EMU supports and funds: The Collaboration: Ypsilanti YMCA Child Development Center. This year, with support from Congresswoman Debbie Dingell, it launched infant and evening care for EMU students and community members. We also foster small initiatives in areas such as digital literacy for seniors (Digital Connecting Corps) and the Intergenerational Community Solutions Institute to cultivate and support and launch and operate short term initiatives such as, Ypsi Live dedicated to providing 450 families in Ypsilanti internet access.

In FY23, Engage@EMU (primarily under the Community area) was awarded \$7.247 million in grant funds.

As a community and university, professional training center, a testing center, as well as being EMU's University's most outward facing office, a space/facility whether in Detroit or in Ypsilanti is critical to Engage@EMU's continued growth and affirmation of the University mission to be a school dedicated to, "local and global impact".

Library

The Bruce T. Halle Library houses the University Library, Bruce K. Nelson Faculty Development Center, Holman Learning Center, Academic Technology and Computing Services and Eagle Cafe. With over 949,000 volumes, 200 indexes and databases, and 20,000 full-text journals, the library provides an array of resources that supports teaching, learning and research to facilitate the intellectual, scientific, artistic, cultural, and service pursuits of the University. The 273,715 square foot library offers 2,250 seats for faculty and students, over 500 computers in labs and public areas, 1,500 network ports, and wireless access to Internet throughout the Library.

At the time when Halle Library opened in 1998, several decisions were made due to budget constraints: (1) to limit the size of the Automatic Retrieval Collection (ARC), (2) to limit the size of the University Archives, (3) to forego proper environmental controls in the University Archives, and (4) to forego proper environmental controls in the "Head End" room which houses major servers, network infrastructure, and the like.

A capital project to meet the full capacity of the Automatic Retrieval Collection (ARC) has been completed. The addition of two (2) bays increased the capacity of the ARC by 200,000 volumes. There was also an update to the ARC's decade-old hardware in the project.

The University's interest in showcasing its accomplishments and the desire to expand the conception of the University Archives to a digital repository both require different and more significant space utilization than the current area provides. Every year that we delay proper environmental controls for these materials is decreasing their life expectancy. A state-of-the-art Archives/Special Collections area with room for a public exhibit and museum-like display area would cost approximately \$2,500,000. A recent project addressed the needs of the environmental controls within the archives.

Approximately \$1,450,000 would be needed to add necessary levels of electrical power and air conditioning in the Head End Room, as well as to replace the outdated sprinkler system with a fire suppression system more appropriate to a room housing so much high-tech equipment. We have been fortunate in avoiding major system failures or fires in that room to date, but the safety risks and the potential for system failure are of continued concern.

The Halle Library is now eighteen years old, and was used heavily in FY2012 as "swing space." Worn carpeting was noted as far back as the 2006 program review of the library, and carpeting is even more worn since the end of the "swing space." Furniture has worn out, and paint has faded. There has been continual rethinking of the use of space, but minimal monies available to do the changes in a manner that befits the stature of the building on the campus. Approximately \$1,450,000 is still needed to catch up on the routine maintenance of the building that had been delayed.



ENROLLMENT AND FACULTY/STAFF

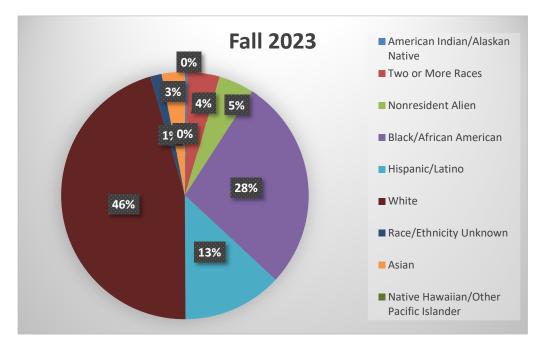
EXECUTIVE SUMMARY CURRENT AND HISTORICAL STUDENT ENROLLMENT FUTURE ENROLLMENT AVERAGE CLASS SIZE STAFFING

EXECUTIVE SUMMARY

In the fall of 2023, EMU enrolled a strong class of 1,853 first-year students. This year's incoming first-year class is well-prepared academically. The average GPA of incoming freshmen is 3.40, up from 3.27 in 2014.



EMU's entering first-year class also shows a highly diversified mix at Eastern. Forty-Eight percent (48%) of the incoming first-year class self-identify as minoritized students.



CURRENT AND HISTORICAL ENROLLMENT

In Fall 2023, among the total enrollments of 13,352 students, 5,176 (or 38.77%) registered for courses offered on-campus only, 2,310 are registered for online only (17.3%), 259 (1.94%) students are registered at satellite campuses only, and 5,607 (41.99%) are registered in a combination of courses from the main campus, satellite campuses, or online.

Level	Combination	On-Campus	Online	Satellite	Grand Total
UG	5,221	4,171	1,506	231	11,129
GR	386	1,005	804	28	2,223
Grand Total	5,607	5,176	2,310	259	13,352

Fall 2023 Enrollment (Start of the Term Census)

The University has continued to maintain strong enrollment from first-year student classes, but experienced overall enrollment declines for the past five years primarily due to the policy shift on Federal Pell grants, lower numbers of transfer and graduate students, overall decline of high school graduates in the State, and the COVID-19 pandemic. Additionally, EMU made a holistic effort to help students complete a degree faster. Despite of the enrollment decline, EMU has awarded a steady and record number of degrees in the past 5 years. In addition, FTIAC 4-, 5-, and 6-year degree completion rates have increased significantly in recent years (see tables below).

Degrees Awarded by Academic Year

AY2019	AY2020	AY2021	AY2022	AY2023
4,700	4,470	4,313	3,962	3,492

Trends of FTIAC 4-, 5-, 6-Year Completion Rate (in %)

Fall 2009	2,196	13.1	30.9	40.1
Fall 2010	1,955	13.0	32.3	40.7
Fall 2011	2,119	14.1	31.7	40.4
Fall 2012	2,612	16.6	36.8	45.1
Fall 2013	2,848	19.1	38.9	46.1
Fall 2014	2,588	19.9	40.3	46.9
Fall 2015	2,846	23.1	41.4	48.1
Fall 2016	2,785	21.5	38.7	45.4
Fall 2017	2,783	22.9	40.4	45.5
Fall 2018	2,375	24.0	40.9	
Fall 2019	2,123	24.5		
Fall 2009	2,196	13.1	30.9	40.1

	Fall Headcount Enrollment		Fall Cre	dit Hours
	Undergraduate	Graduate		Undergraduate
Term	Students	Students	Term	Students
Fall 2018	15,730	3,108	Fall 2018	15,730
Fall 2019	14,872	2,942	Fall 2019	14,872
Fall 2020	13,572	2,752	Fall 2020	13,572
Fall 2021	12,730	2,640	Fall 2021	12,730
Fall 2022	11,617	2,431	Fall 2022	11,617
Fall 2023	11,129	2,223	Fall 2023	11,129

Fall Enrollment Trends (Headcount and Student Credit Hours by Level)

FTIAC Enrollment Trends

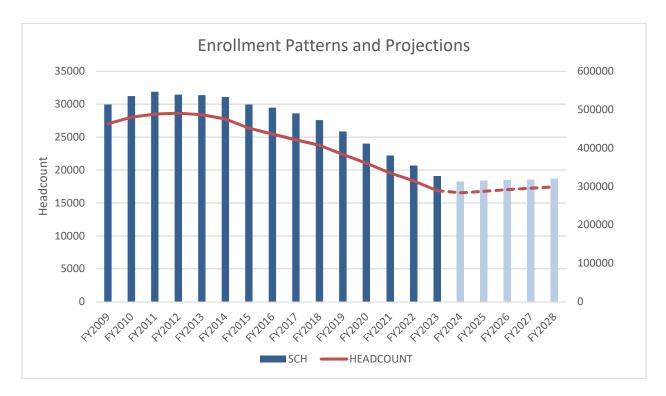
Term	New FTIAC
Fall 2018	2,365
Fall 2019	2,123
Fall 2020	1,855
Fall 2021	2,245
Fall 2022	1,978
Fall 2023	1,853

ENROLLMENT PATTERNS

The University has continued to maintain strong enrollment from first-time freshman classes but experienced overall enrollment declines for the past few years primarily due to the policy shift on Federal Pell grant, and lower numbers of transfer and graduate students, and the COVID-19 pandemic. With the implementation of multiple new enrollment strategies, including new program development and exploring new enrollment markets, we anticipate the enrollment trend will become stabilized in the upcoming few years.

Future Enrollment

With the implementation of multiple new enrollment strategies, including new program developments and exploring new enrollment markets, we anticipate the enrollment trend will become stabilized in the upcoming few years.



AVERAGE CLASS SIZE

The average class size is based on total course enrollment divided by the total number of course sections, excluding courses which are Field Experience or involve individual advising. Over the past five years the University has maintained a stable average class size rate, which is attributable to the University experiencing an overall steady number of FTIAC students in recent years offsetting other decreases in overall enrollment. The University does not expect average class size to materially change in the future due to our mission and planned programmatic changes.

Fall Terms	Average Class Size
2018	21.9
2019	22.1
2020	21.6
2021	22.3
2022	21.4
2023	20.8

INSTRUCTIONAL STAFF/STUDENT AND ADMINISTRATIVE STAFF/STUDENT RATIOS

Eastern Michigan University Full-Time-Equated (FTE) Faculty, Staff, and Students Fall 2022 Official Record

FACULTY FTE			Total	Ratio
College Description	FT Headcount	PT FTE	Faculty FTE	Student FTE to Faculty FTE
College of Arts & Sciences	330	95	425	10.5
College of Business	63	7.3	70.3	22.4
College of Education	56	17.7	73.7	18.4
College of Health & Human Serv	104	44.3	148.3	15.9
GameAbove College of Engineering				
& Technology	46	14.7	60.7	23
Grand Total	599	179	778	15.21

Instructional Faculty FTE includes full-time faculty, full-time lecturers, instructional part-time lecturers, and Instructional graduate assistants. It does not include Library personnel.

Full-time Headcount equals 1 FTE

Part-time FTE equals the number of headcounts divided by three.

STAFF FTE			Total	Ratio
College Description	FT Headcount	PT FTE	Staff FTE	Student FTE to Staff FTE
College of Arts & Sciences	57	14.71	71.71	62.1
College of Business	18	3.035	21.035	74.7
College of Education	27	5.32	32.32	41.9
College of Health & Human Serv	25	23.62	48.62	48.6
GameAbove College of Engineering				
& Technology	16	17.54	33.54	41.6
Grand Total	143	64.225	207.225	57.1

Staff FTE includes administrative, professional-technical, clerical, and hourly employee

It does not include Library personnel, graduate assistants and student employee.

Full-time Headcount equals 1 FTE.

Part-time FTE equals the sum of the percent of appointments.

STUDENT FTE			Total	
College Description	FT Headcount	PT FTE	Student FTE	
College of Arts & Sciences	3,669.0	783.3	4,452.3	
College of Business	1,257.0	315.1	1,572.1	
College of Education	823.0	531.5	1,354.5	
College of Health & Human Serv	1,803.0	557.7	2360.7	
GameAbove College of Engineering				
& Technology	1,096.0	299.1	1395.1	
Academic Affairs	432.0	268.9	700.9	
Grand Total	9,080.0	2755.6	11,835.6	

FT Student Headcount equals 1 FTE

PT Student FTE equals the total number of credit hours divided by the number of hours for the semester All undergraduate credit hours were divided by 12 and all graduate credit hours were divided by 9.

Eastern Michigan University makes great efforts to improve institutional effectiveness and operational efficiency. One of the four overarching themes in the EMU's new strategic plan is institutional effectiveness. Since the 15% state appropriation reduction in FY11/12 through FY16/17, the University's operating expenses have increased annually by only 1.03% and more recently from FY16/17 to FY17/18, its operating expenses have essentially been held flat (see table below). As part of this effort, EMU constantly assesses its staffing needs based on enrollment, and delivery method of education. It is expected that EMU will maintain a relatively stable number of staff and faculty members. Online courses and degree offerings will continue to grow, which may shift some priorities of staffing in support units.

	Total Operating Expenses
Fiscal Year	(in '000's)
FY10/11	\$332,686
FY11/12	\$332,625
FY12/13	\$331,187
FY13/14	\$339,052
FY14/15	\$344,310
FY15/16	\$352,904
FY16/17	\$353,300
FY17/18	\$345,860
FY18/19	\$355,271
FY19/20	\$333,529
FY20/21	\$326,858
FY21/22	\$342,717
FY22/23	\$361,301

Trends of EMU Total Operating Expenses



FACILITY ASSESSMENT

EXECUTIVE SUMMARY BUILDING AND CLASSROOM UTILIZATION RATES ARCHITECTUAL SYSTEMS MECHANICAL SYSTEMS ELECTRICAL SYSTEMS (BUILDINGS) ELEVATOR SYSTEMS FIRE PROTECTION SYSTEMS ELECTRIC SUPPLY AND DISTRIBUTION SYSTEMS SITE WORK AND DRAINAGE SYSTEMS ENERGY PLAN GOALS ROADS, PARKING LOTS AND STRUCTURES UNIVERSITY LAND LAND OBLIGATED TO THE STATE BUILDING AUTHORITY

EXECUTIVE SUMMARY

The Physical Plant department at Eastern Michigan University continues to develop and implement what is clearly stated in our motto: "providing an environment for education first".

Our comprehensive approach to managing the facilities portfolio starts with conceptual campus planning reflective of our collegian mission. We recognize and embrace the benefits of efficiency, by constructing, augmenting and maintaining facilities that are functional, adaptable and energy efficient. This results in the implementation of construction and renovation projects that take into consideration all the operational aspects of building and facilities management for years to come.

Our administrative team understands the real constraints associated with available funding and recognizes the potential to financially neglect the facility's needs to meet available budget funding. Consequently, we have collectively formulated a plan to prioritize and balance our facility's needs with budget. This remains a prudent path to take, both financially and operationally.

The tendency to ignore or postpone the needs of the University's physical assets as we go through these times of fiscal constraint is recognized by this same team. In support of our mission today, and for years to come, our team emphasizes and promotes the need to retain a realistic financial commitment to the relative long-term soundness and effectiveness of our facilities.

By establishing a detailed base line database that is reflective of our existing facilities conditions, we have completed the essential first step in developing a sound facilities management strategy. Our database is well organized, realistic, defendable, and is used as our foundation to plan, fund and execute realistic and meaningful facilities improvements for the benefit of our students, faculty and staff.

As a part of a continuous improvement process, all identification and documenting of existing conditions of University equipment and building components continues to be recorded within the Asset Preservation module of our Computerized Maintenance Management System. Hence, the establishment of our detailed base line database that is reflective of our existing facilities conditions.

It is important to emphasize that we have field verified this deferred maintenance calculation by undergoing a rigorous review of the existing facilities conditions. This auditing process continues to be ongoing and that any adjustments that were made within this Capital Outlay submission were based on actual conditions found.

This Capital Outlay submission, as with others in the past, is inclusive of projects of over \$1M dollars in capital that is considered essential for the day to day operations of the University's facilities. Mandated actions, required for code compliance, such as the testing of life safety

equipment, and in some cases chemical treatments that are required to operate and maintain essential equipment and building components, have been itemized and included within this report.

As was mentioned in previous submissions, a significant reduction in deferred maintenance was accomplished with the self-funded projects including; the \$90 million Mark Jefferson Science Complex Project, the \$15 million Rackham Hall Renovation Project and the \$40 million Sill Hall Renovation and Expansion project. Simultaneously, EMU teamed with State Capital Outlays have completed the \$42 million Pray-Harrold Building Renovation and the \$40 million Strong Hall Renovation. These projects have made a significant dent into the University's deferred maintenance schedule. While we continue to work towards a reduction of deferred maintenance through smaller local capital efforts our goal now is to continue this significant reduction in deferred maintenance by modernizing and expanding Roosevelt Hall. Roosevelt Hall is included amongst the largest liabilities of deferred maintenance needs on campus.

During June 2023, the University finalized its Energy Services Partnership with CenTrio Energy. This relationship will provide the University with expert leadership in the delivery and maintenance of the energy and other utility infrastructure across its campus over the upcoming 50 years. CenTrio will be investing a minimum of \$25 million in various energy reduction related projects as well as an additional \$25 million in various critical infrastructure related projects across campus. These projects are designed to reduce the energy footprint of the University while also supporting the University's sustainability goals. An example of these projects includes the demolition of the Jones Goddard buildings during FY2024. These buildings represent over \$66.25 million (19.1%) of the University's outstanding deferred maintenance balance.

BUILDING AND CLASSROOM UTILIZATION RATES

Identify building/classroom usage rates for peak (M-F, 10-3), and off-peak (M-F, 8-10am, 3-5pm), evening, and weekend periods.

During 2017 and 2018, a Space Utilization study was conducted regarding building and classroom utilization rates; that is, the percentage of rooms used and the percentage that are at capacity relative to academic facilities. Results of the study, based on student enrollment counts from the Fall 20017 semester are as follows:

Time Range	Average %	Range in %
Peak Hours (M to F, 10 am to 3 pm)	65%	10% (F at 12) to 82% (W at 12)
Non-Peak Mornings (M to F, 8 am to 10 am)	39%	2% (F at 8) to 71% (M at 9)
Non-Peak Afternoons (M to F, 3 pm to 5 pm)	49%	4% (F at 4) to 78% (W at 3)
Non-Peak Evenings (M to F, after 5 pm)	42%	2% (F at 8) to 66% (T at 6)
Non-Peak Weekends (S and SU, 8 am to 6 pm)	42%	0% (SU at 8) to 11% (S at 10)
Monday-Thursday Only Peak Hours (M to R, 10 am to 3 pm) Non-Peak Mornings (M to R, 8 am to 10 am) Non-Peak Afternoons (M to R, 3 pm to 5 pm) Non-Peak Evenings (M to R, after 5 pm)	78% 47% 60% 22%	70% (M at 1) to 82% (W at 12) 21% (R at 8) to 71% (M at 9) 40% (T at 4) to 78% (W at 3) 33% (R at 8) to 66% (T at 6)

In Fall of 2019, the Student Station Occupancy (the percent of seats occupied when a room is in use) averages 66%. The consultant preparing this study indicated that "when an institution reaches and exceeds the 80% level of classroom use, the more difficult it becomes to find available classrooms in the right geographical locations with the right classroom capacities."

Due to the construction activities of two large classroom buildings on campus during the time of this study (Strong and Sill Hall), the Space Utilization rates are slightly altered from normal conditions.

General Fund Building Age / Replacement Report Table 1

NamePrimary UsMark Jefferson***academicHalle LibraryacademicPray Harrold***academicPorteracademicSill***academicWarneracademicAlexanderacademicStrongacademicRooseveltacademicMarshallacademicJudy Sturgis HillacademicSherzeracademicFordacademicFordacademicSherzeracademicPaint Research**academicParsons CenteracademicBriggsacademicCone Room Schoolhouse**academicHeating Plant**non-academicSolouwellnon-academicSolouwellnon-academicSolouwellnon-academicParsenon-academicSolouwellnon-academicSolouwellnon-academicSolouwellnon-academicSolouwellnon-academicPoinesnon-academicPoinesnon-academicSolonenon-academicSolonenon-academicSolonenon-academicPiercenon-academicBoonenon-academicPiercenon-academicPiercenon-academicPiercenon-academicBoonenon-academicPiercenon-academicPiercenon-academicBoonenon-academicPiercenon-academicBoonenon-academ	5 7 3 2 4 3 2 4 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 1 1 1	Sq./ft. 262,273 273,715 237,108 143,775 107,335 95,349 86,900 80,713 75,639 70,324 58,205 45,890 35,253 33,333 12,606 8,000 9,948 9,500 5,200 4,648 21,405 900 23,856 107,103	Date Built 1969 1998 1967 1966 1967 1964 1980 1957 1924 2000 1959 1938 1903 1929 1974 1987 2007 1937 1998 1959 1951 1995 1955 1905 1951 1905 1905 1905 1905 1905 1905 1905	Architectural 2011 1998 2011 1999 2020 1964 1980 1957 1973 2000 1959 2015 1990 1968 1997 1968 1974 1987 2007 1990 1998 2015 2005 1998 2015 2005 1988 1951	Mechanical 2011 1998 2011 1999 2020 1964 1998 1957 1973 2000 1959 2015 2011 1968 1974 1987 2007 1990 1998 2015 2007 1987 2007 1998 2015 2015 2017	Electrical 2011 1998 2011 1999 2020 1964 1980 1957 1973 2000 1959 2015 1990 1968 1974 1987 2007 1990 1968 1974 1987 2007 1990 1998 2015 2005 1988 2015	Re \$	2024 Building placement Value 185,381,241 134,030,201 116,104,827 70,402,397 62,928,316 46,689,606 42,552,379 39,522,787 37,038,198 34,435,598 28,501,280 22,470,986 17,262,359 16,322,192 6,172,788 5,468,792 5,092,782 4,651,871 2,546,287 2,275,989 1,460,946 1,228,103		
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Paint Research**academicParsons CenteracademicBriggsacademicTerrestial and Aquatic CenteracademicSculpture Studio***academicHonors CollegeacademicOne Room Schoolhouse**academicHeating Plant**non-academicMcKennynon-academicB00 Lowellnon-academicJonesnon-academicJonesnon-academicPiercenon-academicBoonenon-academicPiercenon-academicPosenon-academicPiercenon-academicBoonenon-academicWelchnon-academicPhysical Plantnon-academicHovernon-academicHovernon-academic	1 1 1 2 1 ic 3 ic 4	9,948 9,500 5,200 4,648 21,405 900 23,856 107,103	2007 1937 1998 1959 1965 1905 1951	2007 1990 1998 2015 2005 1988 1951	2007 1990 1998 2015 2020 1988	2007 1990 1998 2015 2005 1988	\$ \$ \$ \$ \$ \$	5,092,782 4,651,871 2,546,287 2,275,989 1,460,946		
Briggs academic Terrestial and Aquatic Center academic Sculpture Studio*** academic Honors College academic One Room Schoolhouse** academic Heating Plant** non-academ McKenny non-academ 800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Hover non-academ	1 1 2 1 ic 3 ic 4	9,500 5,200 4,648 21,405 900 23,856 107,103	1937 1998 1959 1965 1905 1905 1951	1990 1998 2015 2005 1988 1951	1990 1998 2015 2020 1988	1990 1998 2015 2005 1988	\$ \$ \$ \$ \$	4,651,871 2,546,287 2,275,989 1,460,946		
Briggs academic Terrestial and Aquatic Center academic Sculpture Studio*** academic Honors College academic One Room Schoolhouse** academic Heating Plant** non-academ McKenny non-academ 800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Hover non-academ	1 1 2 1 ic 3 ic 4	5,200 4,648 21,405 900 23,856 107,103	1998 1959 1965 1905 1951	1998 2015 2005 1988 1951	1998 2015 2020 1988	1998 2015 2005 1988	\$ \$ \$ \$	4,651,871 2,546,287 2,275,989 1,460,946		
Terrestial and Aquatic CenteracademicSculpture Studio***academicHonors CollegeacademicOne Room Schoolhouse**academicHeating Plant**non-academMcKennynon-academ800 Lowellnon-academGoddardnon-academKingnon-academJonesnon-academPiercenon-academBoonenon-academWelchnon-academPeasenon-academPhysical Plantnon-academHovernon-academ	1 2 1 ic 3 ic 4	4,648 21,405 900 23,856 107,103	1959 1965 1905 1951	2015 2005 1988 1951	2015 2020 1988	2015 2005 1988	\$ \$ \$ \$	2,546,287 2,275,989 1,460,946		
Sculpture Studio*** academic Honors College academic One Room Schoolhouse** academic Heating Plant** non-academ McKenny non-academ 800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Hover non-academ	2 1 ic 3 ic 4	21,405 900 23,856 107,103	1965 1905 1951	2005 1988 1951	2020 1988	2005 1988	\$ \$	2,275,989 1,460,946		
Honors College academic One Room Schoolhouse** academic Heating Plant** non-academ McKenny non-academ 800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ	2 1 ic 3 ic 4	900 23,856 107,103	1965 1905 1951	2005 1988 1951	2020 1988	2005 1988	\$ \$	1,460,946		
One Room Schoolhouse** academic Heating Plant** non-academ McKenny non-academ 800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ	ic 3 ic 4	23,856 107,103	1951	1951			_			
Heating Plant** non-academ McKenny non-academ 800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ	ic 3 ic 4	107,103	1951	1951			_	1 - 1 - 1		
McKenny non-academ 800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ	ic 4			4000				81,413,754		
800 Lowell non-academ Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ		4 60,000		1992	1992	1992	Ś	52,445,195		
Goddard non-academ King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ		168,000	1901	1956	1956	1956	\$	50,358,000		
King non-academ Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ		75,856	1955	1955	1955	1955	\$	34,083,107		
Jones non-academ Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ		61,450	1939	1939	1939	1939	\$	33,410,470		
Pierce non-academ Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ		70,491	1948	1948	1948	1948	Ś	31,672,541		
Boone non-academ Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ	-	61,275	1948	1990	1990	1990	\$	30,004,569		
Welch non-academ Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ		45,210	1914	2000	2000	2000	\$	22,138,010		
Pease non-academ Physical Plant non-academ Wellness Center non-academ Hover non-academ		36,840	1896	1986	1986	1986	Ś	18,039,467		
Physical Plant non-academ Wellness Center non-academ Hover non-academ		30,181	1914	1994	1994	1994	\$	14,778,750		
Wellness Center non-academ Hover non-academ		25,300	1995	1995	1995	1995	\$	12,388,667		
Hover non-academ	-	15,548	2019	2019	2019	2019	\$	8,772,500		
		11,021	1941	2002	2015	2015	Ś	7,531,432		
University House non-academ		10,700	2003	2002	2002	2002	\$	6,282,574		
Central Stores non-academ		10,140	1972	1972	1972	1972	Ś	4,965,260		
Starkweather non-academ		8,706	1896	1996	1991	1991	\$	4,263,073		
Central Operations non-academ		5,665	1969	2012	2012	2012	\$	2,176,040		
emu House non-academ		1,434	1909	2012	2012	2012	\$	330,635		
				2017	2017	2014	\$	1,297,593,966		
TOTAL		2,446,795	Average Cost/sq. ft. = \$							
Average Year Built Average Building Age (Years)			1957 66		Average Cost/s	iq. it. =	Þ	530		
Average Year Built Weighted by Sq. R. Average Age Weighted by Sq. R. (Years)			1966	1997	1999	1998				

** Indicates Unique Building Replacement Costs

***Recent Major Renovation/Addition

Note:

Replacement costs reflect the cost to replace a building with "like-kind" systems. They do not include system upgrades to deliver more sophisticated curriculum or the "soft costs" and staging/phasing costs.

Building Deficiencies Priorities by Category Table 2

I. Urgent

1. If not accomplished, will jeopardize the continued usefulness of the facility and may result in serious and irrevocable loss or damage

II. Required

If not accomplished, may jeopardize the continued usefulness of the facility

General Fund Building Deficiencies Cost Summary for FY 2024 by Priority

	<u>Urgent</u>	Required	<u>Total</u>
Total Campus Deficiencies Including Sitework, Drains, & Utility Infrastructure	\$271,505,300	\$74,552,949	\$346,058,249

Table 3

General Fund Building Deficiency Cost Summary for FY 2024 by System

	Architectural	Electrical	<u>Elevators</u>	Fire Protection	<u>Mechanical</u>	Site Work	<u>Total</u>
General Fund Buildings	\$96,621,522	\$48,341,981	\$6,533,171	\$40,753,388	\$125,401,871	\$28,406,317	\$ 346,058,249

General Fund Building Deficiency Cost Summary by System Table 4

Building	Pri ma ry Use	Are	chitectural		Electrical	Elevators	L	ife Safety	N	/lechanical	Site Work	G	rand Total
Warner	academic	\$	11,715,326	\$	619,671	\$ 220,267	\$	2,761,237	\$	10,740,318	\$ -	\$	26,056,818
Alexander	academic		10,168,615	\$	275,000	\$ 411,164	\$	120,412	\$	6,606,770	\$ -	\$	17,581,961
Roosevelt	academic	\$	5,992,027	\$	1,807,526	\$ 350,000	\$	1,512,497	\$	4,607,578	\$ 242,293	\$	14,511,921
Halle Library	academic	\$	2,457,912	\$	1,717,491	\$ 800,000	\$	179,150	\$	3,347,373	\$ -	\$	8,501,926
Pray Harrold	academic	\$	550,527	\$	2,023,422	\$ -	\$	-	\$	5,579,296	\$ -	\$	8,153,245
Judy Sturgis Hill	academic	\$	2,639,359	\$	1,325,061	\$ 120,412	\$	770,933	\$	3,213,373	\$ -	\$	8,069,139
Porter	academic	\$	951,025	\$	452,293	\$ 350,000	\$	80,764	\$	6,052,912	\$ -	\$	7,886,994
Ford	academic	\$	2,021,829	\$	775,000	\$ -	\$	650,000	\$	2,685,355	\$ -	\$	6,132,184
Mark Jefferson	academic	\$	308,233	\$	1,591,140	\$ -	\$	80,764	\$	3,219,635	\$ -	\$	5,199,773
Sherzer	academic	\$	3,272,133	\$	450,000	\$ 350,000	\$	538,919	\$	525,000	\$ -	\$	5,136,052
Paint Research	academic	\$	586,586	\$	73,422	\$ -	\$	142,828	\$	1,411,711	\$ 150,000	\$	2,364,547
Kresge Center	academic	\$	906,002	\$	340,679	\$ -	\$	204,114	\$	801,131	\$ 103,899	\$	2,355,825
Briggs	academic	\$	920,964	\$	-	\$ -	\$	318,652	\$	1,099,817	\$ -	\$	2,339,433
Marshall	academic	\$	712,195	\$	324,396	\$ 325,000	\$	80,764	\$	80,000	\$ -	\$	1,522,355
Terrestial and Aquatic Center	academic	\$	380,466	\$	92,512	\$ -	\$	114,539	\$	805,130	\$ -	\$	1,392,646
Parsons Center	academic	\$	997,434	\$	69,266	\$ -	\$	-	\$	-	\$ -	\$	1,066,700
Honors College	academic	\$	350,832	\$	-	\$ -	\$	220,267	\$	75,000	\$ -	\$	646,099
Rackham	academic	\$	288,532	\$	-	\$ -	\$	-	\$	-	\$ -	\$	288,532
One Room Schoolhouse	academic	\$	188,293	\$	-	\$ -	\$	76,359	\$	-	\$ -	\$	264,652
Sill	academic	\$	-	\$	-	\$ -	\$	-	\$	225,000	\$ -	\$	225,000
Strong	academic	\$	-	\$	150,000	\$ -	\$	-	\$	-	\$ -	\$	150,000
Sculpture Studio	academic	\$	-	\$	-	\$ -	\$	-	\$	-	\$ -	\$	-
Campus	non-academic	\$	9,895,512	\$	14,105,372	\$ -	\$	9,602,649	\$	16,457,434	\$ 22,690,036	\$	72,751,003
Goddard	non-academic	\$	10,249,740	\$	6,101,385	\$ 377,390	\$	4,801,812	\$	11,500,854	\$ 1,248,177	\$	34,279,359
Jones	non-academic	\$	8,895,027	\$	5,578,472	\$ 481,062	\$	4,662,604	\$	11,004,300	\$ 1,354,858	\$	31,976,322
McKenny	non-academic	\$	1,561,534	\$	1,468,444	\$ 674,818	\$	3,465,528	\$	10,802,447	\$ -	\$	17,972,771
Pierce	non-academic	\$	1,764,279	\$	2,587,394	\$ 557,293	\$	1,361,248	\$	7,159,584	\$ 627,552	\$	14,057,350
King	non-academic	\$	3,712,116	\$	1,316,493	\$ 414,101	\$	2,547,750	\$	4,676,053	\$ -	\$	12,666,514
Welch	non-academic	\$	3,131,001	\$	699,271	\$ 330,666	\$	2,752,083	\$	3,153,266	\$ 207,799	\$	10,274,085
Heating Plant	non-academic	\$	2,093,530	\$	225,000	\$ -	\$	1,268,610	\$	4,415,315	\$ 103,899	\$	8,106,354
Pease	non-academic	\$	2,631,701	\$	1,777,656	\$ 256,978	\$	634,368	\$	906,030	\$ -	\$	6,206,733
Starkweather	non-academic	\$	3,098,345	\$	568,288	\$ -	\$	497,803	\$	2,036,951	\$ -	\$	6,201,386
University House	non-academic	\$	1,377,359	\$	946,844	\$ -	\$	-	\$	444,951	\$ 1,258,605	\$	4,027,759
Boone	non-academic	\$	1,478,869	\$	208,647	\$ 351,386	\$	899,975	\$	275,000	\$ 184,940	\$	3,398,816
Physical Plant	non-academic	\$	392,867	\$	336,700	\$ -	\$	61,675	\$	845,836	\$ -	\$	1,637,078
Hover	non-academic	\$	207,868	\$	-	\$ 162,633	\$	242,293	\$	249,763	\$ -	\$	862,557
Central Operations	non-academic	\$	142,688	\$	298,422	\$ -	\$	-	\$	398,689	\$ -	\$	839,799
Central Stores	non-academic	\$	469,971	\$	-	\$ -	\$	80,764	\$	-	\$ -	\$	550,735
800 Lowell	non-academic	\$	-	\$	-	\$ -	\$	-	\$	-	\$ 234,257	\$	234,257
emu House	non-academic	\$	110,826	\$	36,711	\$ -	\$	22,027	\$	-	\$ -	\$	169,564
				Ś		\$	Ś		Ś		\$	Ś	

Total Building Deficiencies

<u>\$ 96,621,522</u> \$ 48,341,981 \$ 6,533,171 \$ 40,753,388 \$ 125,401,871 \$ 28,406,317 \$ 346,058,249

General Fund Building Deficiency Cost Summary by Priority Table 5

Building	Primary Use	Urgent	Required	G	Grand Total
Warner	academic	\$ 21,888,852	\$ 4,167,966	\$	26,056,818
Alexander	academic	\$ 14,184,704	\$ 3,397,258	\$	17,581,961
Roosevelt	academic	\$ 9,570,586	\$ 4,941,336	\$	14,511,921
Halle Library	academic	\$ 4,153,272	\$ 4,348,654	\$	8,501,926
PrayHarrold	academic	\$ 3,321,589	\$ 4,831,656	\$	8,153,245
Judy Sturgis Hill	academic	\$ 5,563,795	\$ 2,505,344	\$	8,069,139
Porter	academic	\$ 5,417,241	\$ 2,469,753	\$	7,886,994
Ford	academic	\$ 4,260,066	\$ 1,872,118	\$	6,132,184
Mark Jefferson	academic	\$ -	\$ 5,199,773	\$	5,199,773
Sherzer	academic	\$ 4,611,052	\$ 525,000	\$	5,136,052
Paint Research	academic	\$ 2,067,703	\$ 296,844	\$	2,364,547
Kresge Center	academic	\$ 1,000,509	\$ 1,355,316	\$	2,355,825
Briggs	academic	\$ 1,693,318	\$ 646,115	\$	2,339,433
Marshall	academic	\$ 1,037,195	\$ 485,160	\$	1,522,355
Terrestial and Aquatic Center	academic	\$ 1,015,977	\$ 376,670	\$	1,392,646
Parsons Center	academic	\$ 761,929	\$ 304,771	\$	1,066,700
Honors College	academic	\$ 73,422	\$ 572,677	\$	646,099
Rackham	academic	\$ 288,532	\$ -	\$	288,532
One Room Schoolhouse	academic	\$ 76,359	\$ 188,293	\$	264,652
Sill	academic	\$ -	\$ 225,000	\$	225,000
Strong	academic	\$ 150,000	\$ -	\$	150,000
Sculpture Studio	academic	\$ -	\$ -	\$	-
Campus	non-academic	\$ 67,237,138	\$ 5,513,865	\$	72,751,003
Goddard	non-academic	\$ 33,031,181	\$ 1,248,177	\$	34,279,359
Jones	non-academic	\$ 30,621,464	\$ 1,354,858	\$	31,976,322
McKenny	non-academic	\$ 15,829,510	\$ 2,143,262	\$	17,972,771
Pierce	non-academic	\$ 9,897,828	\$ 4,159,522	\$	14,057,350
King	non-academic	\$ 11,685,919	\$ 980,595	\$	12,666,514
Welch	non-academic	\$ 4,036,345	\$ 6,237,740	\$	10,274,085
Heating Plant	non-academic	\$ 2,643,003	\$ 5,463,351	\$	8,106,354
Pease	non-academic	\$ 5,043,725	\$ 1,163,008	\$	6,206,733
Starkweather	non-academic	\$ 3,958,853	\$ 2,242,533	\$	6,201,386
University House	non-academic	\$ 2,738,453	\$ 1,289,306	\$	4,027,759
Boone	non-academic	\$ 1,359,692	\$ 2,039,124	\$	3,398,816
Physical Plant	non-academic	\$ 880,469	\$ 756,608	\$	1,637,078
Hover	non-academic	\$ 242,293	\$ 620,264	\$	862,557
Central Operations	non-academic	\$ 289,533	\$ 550,267	\$	839,799
Central Stores	non-academic	\$ 469,971	\$ 80,764	\$	550,735
800 Lowell	non-academic	\$ 234,257	\$ -	\$	234,257
emu House	non-academic	\$ 169,564	\$ -	\$	169,564
Wellness Center	non-academic	\$ -	\$ -	\$	-
Total Campus Deficiencies		\$ 271,505,300	\$ 74,552,949	\$	346,058,249

Total System Deficiencies by Building Age Table 6

Welch non-academic 36,800 1986 18,039,467 10,724,083 0.87 1300-1340 scademic 9,500 1937 4,651,871 2,339,433 0.50 Briggs academic 75,031 124 7,708,1371 2,339,433 0.53 Ford academic 33,333 1999 \$ 16,532,142 5,33,144 0.33 Sherzer academic 45,540 1933 12,726,339 5,136,562 0.23 Sherzer non-academic 14,441 1935 1,228,103 5,246,552 0.03 Jones non-academic 14,441 1935 33,004,569 14,057,350 0.47 Perce non-academic 13,013 134,441 14,777,373 0.62,057,310 0.42 King non-academic 13,013 134,414 14,777,373 0.62,057,310 0.42 King non-academic 10,013 131 14,4177,373 0.62,057,350 0.42 King non-academic	Building Name		Primary Use	Building Sq. Ft.	Date Built/ Number		2021 Building Replacement Value		Anticipated 2021 Backlog Deficiency	Facility Condition Index
Shr.Hvesther non-scademic 8,706 1896 5 4,26,377 5 6,21,386 14 1000-1029 Total 45,546 \$ 2,2,002,539 \$ 16,475,471 1000-1029 academic 9,500 1937 4,651,871 2,339,433 0.50 Rossevelt academic 3,333 1929 5 16,475,471 0.83 Sherzer academic 35,333 1903 17,762,393 5 16,475,471 One koom Schoolhouse academic 35,033 1903 17,762,393 5 16,675,400 0.30 Racham academic 1,434 1225 330,045 14,067,350 0.04 Berke non-academic 1,434 1225 330,045 14,057,350 0.66,514 0.38 Berke non-academic 1,021 194 33,410,471 13,966,514 0.38 Berke non-academic 1,021 194 33,410,471 13,966,514 0.38 Berke	Before 1900									
Total 45,546 \$ 2,2,302,539 \$ 16,475,471 1000-1949 academic 75,633 1327 4,651,871 2,339,433 0.50 Roopevelt academic 75,633 1324 5 16,222,012 5 6,311,921 0.33 Sherzer academic 35,233 1303 1,7262,369 5,336,052 0.20 Rackham academic 0,01935 1,222,470,986 286,552 0.02 Rackham academic 0,01935 1,222,470,986 286,552 0.02 Rackham academic 1,144 1025 300,655 16,9564 0.22 Rackham non-academic 1,121 1948 31,477,87,90 6,056,734 0.38 Rome non-academic 107,103 1931 2,738,942 9,80,557 0.33 Boone non-academic 11,021 1941 2,2138,010 3,388,160 0.15 Horer non-academic 11,021 1941 2,246,193 <	Starkweather		non-academic	8,706	1896	\$	4,263,073	\$	6,201,386	1.45
1900-1999 academic 9,500 1937 4,651,871 2,339,433 0,50 Briggs academic 33,333 1292 \$ 16,222,192 \$ 6,322,184 0,33 0,34 0,34 0,33 0,34 0,33 0,34	Welch		non-academic	36,840	1896		18,039,467		10,274,085	0.57
Anges Nonsevelt academic 9,500 937 4,651,871 2,339,433 050 Ford academic 33,333 1929 \$ 16,322,192 \$ 6,132,184 0,33 Ford academic 30,033 1929 \$ 11,222,103 2,846,52 0,30 Sherzer academic 900 1935 1,222,103 2,846,52 0,32 Nachham academic 70,491 1948 31,672,541 13,976,52 0,03 Iones non-academic 1,144 1925 330,655 14,067,350 0,47 Perce non-academic 30,181 1914 2,218,010 3,398,430 0,47 Perce non-academic 11,021 1931 5,2445,195 17,727,71 0,34 Mosen non-academic 21,021 1941 7,733,432 862,557 0,07 Noner non-academic 23,403 155,943,403 155,943,403 101 Perce non-academic 23,407 </td <td></td> <td>Total</td> <td></td> <td>45,546</td> <td></td> <td>\$</td> <td>22,302,539</td> <td>\$</td> <td>16,475,471</td> <td></td>		Total		45,546		\$	22,302,539	\$	16,475,471	
Roo Ford academic 75,639 924 97,038,188 14,511,921 0.03 Sherzer academic 35,233 1939 17,220,239 5,613,2142 0,613,0144 0.38 Sherzer academic 45,290 1328 1228,152 0,613,0144 0.38 22,470,986 228,552 0.02 Rackham academic 4,544 1325 330,055 1,169,554 0.05,1 Nerce non-academic 6,1,27 348 330,04,569 1,46,07,330 0.47 Perce non-academic 61,450 1393 334,10,470 12,266,514 0.39 Ning non-academic 10,21 1941 22,138,010 3,398,816 0.51 None non-academic 10,22 1941 22,138,010 3,398,816 0.51 Stool non-academic 10,20 1944 2,2138,010 3,398,816 0.51 Stool non-academic 23,240 196,43 2,50,02 0.00 0.00	<u>1900-1949</u>									
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Sherer academic 35,253 1903 17,262,359 5,136,052 0.30 Book Room Schoolhouse academic 45,890 1938 22,470,086 28,8532 0.01 Jones non-academic 1,444 1925 33,003,33 1,695,64 0.03 Perce non-academic 61,275 1948 30,004,569 4,057,330 0.47 Perce non-academic 61,450 1939 33,410,470 6,055,14 0.33 King non-academic 61,450 1939 33,410,470 12,665,514 0.38 Boone non-academic 45,210 1914 7,531,422 862,577 0.34 Warer non-academic 21,005 1944 5 21,005,139 0.28 Warer academic 23,005 199 28,510,208 8,066,099 0.44 Juzy Sturgis Hill academic 21,005 196,004,68 666,099 0.44 Juzy Sturgis Hill academic 23,005 199	Roosevelt									
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Goddard non-academic 75,856 1955 34,083,107 34,279,359 1.01 Central Operations non-academic 5,665 1969 2,176,040 839,799 0.39 Heating Plant non-academic 23,856 1951 81,413,754 8,106,354 0.10 800 Lowell non-academic 1,284,188 \$ 721,298,289 \$ 99,846,838 1970-1979 Total 1,284,188 \$ 721,298,289 \$ 99,846,838 Central Stores non-academic 10,140 1972 4,965,260 550,735 0.11 1980-1989 Total 22,746 \$ 11,138,048 \$ 2,906,560 1980-1989 Total academic 86,900 1987 5,468,792 2,364,547 0.43 Alexander academic 5,2705 17,581,961 0.44 0.43 Jepo-1999 Total otademic 273,715 1998 134,030,201 8,501,926 0.06 Physicial Plant non	Sill		academic		1965					
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800 Lowell non-academic 168,000 1901 50,358,000 234,257 0.00 Total 1,284,188 \$ 721,298,289 \$ 99,846,838 0.00 Kresge Center academic 12,606 1974 \$ 6,172,788 \$ 2,355,825 0.38 Central Stores non-academic 10,140 1972 4,965,260 550,735 0.11 1920-1939 Total 22,746 \$ 11,138,048 \$ 2,906,560 1980-1989 Total academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 8,090 1987 \$ 42,552,379 \$ 17,581,961 0.41 1990-1990 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.65 Halle Library academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 2,5300 1995 12,388,667	Central Operations		non-academic	5,665	1969		2,176,040		839,799	0.39
Total 1,284,188 \$ 721,298,289 \$ 99,846,838 1970-1979 Kresge Center academic 12,606 1974 \$ 6,172,788 \$ 2,355,825 0.38 Central Stores non-academic 10,140 1972 4,965,260 550,735 0.11 Total 22,746 \$ 11,138,048 \$ 2,906,560 1980-1989 Paint Research academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 8,000 1980 \$ 42,552,379 \$ 17,581,961 0.41 Total 94,900 \$ 48,021,171 \$ 19,946,509 1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 \$ 5,012,78 0.13 Post 2000 Parsons Center academic 70,324 2000	Heating Plant		non-academic	23,856	1951		81,413,754		8,106,354	0.10
1970-1979 Kresge Center academic 12,606 1974 \$ 6,172,788 \$ 2,355,825 0.38 Central Stores non-academic 10,140 1972 4,965,260 550,735 0.11 Total 22,746 \$ 11,138,048 \$ 2,906,560 1980-1989 Paint Research academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 86,000 1987 \$ 48,021,171 \$ 19,946,509 0.41 1990-1999 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.43 Halle Library academic 27,3715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Post 2000 Total 304,215 \$ 148,965,155 \$ 11,531,650 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,65,20 \$ 54,583,454 \$ 6,616,815 5 Sitework, Drains, & Infr	800 Lowell		non-academic	168,000	1901		50,358,000		234,257	0.00
Kresge Center aca demic 12,606 1974 \$ 6,172,788 \$ 2,355,825 0.38 Central Stores non-academic 10,140 1972 4,965,260 550,735 0.11 Total 22,746 \$ 11,138,048 \$ 2,906,560 1980 1980-1989 academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 86,900 1980 \$ 42,552,379 \$ 17,581,961 0.41 1990-1999 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.41 1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 25,300 1995 12,388,667 1,637,078 0.13 Total non-academic 25,300 1995 12,388,667 1,637,078 0.13 Post 2000 Total academic 70		Total		1,284,188		\$	721,298,289	\$	99,846,838	
Central Stores non-academic 10,140 1972 4,965,260 550,735 0.11 Total 22,746 \$ 11,138,048 \$ 2,906,560 1980-1989 Paint Research academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 86,900 1980 \$ 42,552,379 \$ 17,581,961 0.41 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.41 1990-1999 Terrestial and Aquatic Center academic 2,730 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total non-academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04	<u>1970-1979</u>									
Central Stores non-academic 10,140 1972 4,965,260 550,735 0.11 Total 22,746 \$ 11,138,048 \$ 2,906,560 1980-1989 Paint Research academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 86,900 1980 \$ 42,552,379 \$ 17,581,961 0.41 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.41 1990-1999 Terrestial and Aquatic Center academic 2,730 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total non-academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04			academic	12,606	1974	\$	6,172,788	\$	2,355,825	0.38
Total 22,746 \$ 11,138,048 \$ 2,906,560 1980-1989 Paint Research academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 86,900 1980 \$ 42,552,379 \$ 17,581,961 0.41 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.43 1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,51,650 0.21 Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 10,700 2003 6,282,574	Central Stores		non-academic		1972	Ċ		·		0.11
Paint Research academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 86,900 1980 \$ 42,552,379 \$ 17,581,961 0.41 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.41 1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 0.51 Post 2000 Total academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - - Total 106,520		Total				\$		\$		
Paint Research academic 8,000 1987 5,468,792 2,364,547 0.43 Alexander academic 86,900 1980 \$ 42,552,379 \$ 17,581,961 0.41 Total 94,900 \$ 48,021,171 \$ 19,946,509 0.41 1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 0.51 Post 2000 Total academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - - Total 106,520	1980-1989									
Alexander academic 86,900 1980 \$ 42,552,379 \$ 17,581,961 0.41 Total 94,900 \$ 48,021,171 \$ 19,946,509 1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 0.21 Parsons Center academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 - - Sitework, Drains, & Infrastructure - - - - - - Gampus non-academic n/a n/a <td< td=""><td></td><td></td><td>academic</td><td>8.000</td><td>1987</td><td></td><td>5.468.792</td><td></td><td>2.364.547</td><td>0.43</td></td<>			academic	8.000	1987		5.468.792		2.364.547	0.43
Total 94,900 \$ 48,021,171 \$ 19,946,509 1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 - Sitework, D						Ś		Ś		
1990-1999 Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 Sitework, Drains, & Infrastructure - - - - - Campus non-academic n/a n/a #N/A \$ 72,751,003<		Total			1000	_				0.11
Terrestial and Aquatic Center academic 5,200 1998 \$ 2,546,287 \$ 1,392,646 0.55 Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 Post 2000 Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 \$,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 - Sitework, Drains, & Infrastructure n/a n/a m/a #N/A \$ 72,751,003 #N/A	1000 1000			,					, ,	
Halle Library academic 273,715 1998 134,030,201 8,501,926 0.06 Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 Post 2000		ntor	academic	5 200	1008	ć	2 546 287	ć	1 302 6/6	0.55
Physical Plant non-academic 25,300 1995 12,388,667 1,637,078 0.13 Total 304,215 \$ 148,965,155 \$ 11,531,650 0 Post 2000 Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 \$,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 - Sitework, Drains, & Infrastructure ron-academic n/a n/a #N/A \$ 72,751,003 #N/A #N/A		itter				Ļ		Ļ		
Total 304,215 \$ 148,965,155 \$ 11,531,650 Post 2000 Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 - - - - Sitework, Drains, & Infrastructure non-academic n/a n/a #N/A \$ 72,751,003 #N/A Total n/a - <t< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-									
Post 2000 Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 - Sitework, Drains, & Infrastructure non-academic n/a n/a #N/A \$ 72,751,003 #N/A Total n/a #N/A \$ 72,751,003 #N/A	Thysroat Halle	Total			1555	Ś		Ś		0.15
Parsons Center academic 9,948 2007 \$ 5,092,782 \$ 1,066,700 0.21 Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - Total 106,520 \$ 54,583,454 \$ 6,616,815 - Sitework, Drains, & Infrastructure non-academic n/a n/a #N/A \$ 72,751,003 #N/A Total n/a #N/A \$ 72,751,003 #N/A	D (2000	. o tu i		001,210		Ŷ	1 10,0 00,100	Ŷ	11,001,000	
Marshall academic 70,324 2000 34,435,598 1,522,355 0.04 University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 - - - Total 106,520 \$ 54,583,454 \$ 6,616,815 -				0.048	2007	~	F 002 792	ć	1 000 700	0.21
University House non-academic 10,700 2003 6,282,574 4,027,759 0.64 Wellness Center non-academic 15,548 2019 8,772,500 -						Ş		Ş		
Wellness Center non-academic 15,548 2019 8,772,500 -										
Total 106,520 \$ 54,583,454 \$ 6,616,815 Sitework, Drains, & Infrastructure									4,027,759	0.64
<u>Sitework, Drains, & Infrastructure</u> Campus non-academic n/a n/a #N/A \$ 72,751,003 #N/A Total n/a #N/A \$ 72,751,003	wenness center	Total	non-academic		2019	ć		ć	- 6 616 015	-
Campus non-academic n/a #N/A \$ 72,751,003 #N/A Total n/a #N/A \$ 72,751,003 #N/A				100,520		Ş	54,303,454	Ş	0,010,015	
Total n/a #N/A \$ 72,751,003		tructure								
	Campus		non-academic		n/a	-				#N/A
Total Building Deficiencies 2,446,795 \$ 1,297,593,966 \$ 346,058,249		Iotal		n/a			#N/A	Ş	/2,751,003	
	Total Building Deficiencie	s		2,446,795		\$	1,297,593,966	\$	346,058,249	

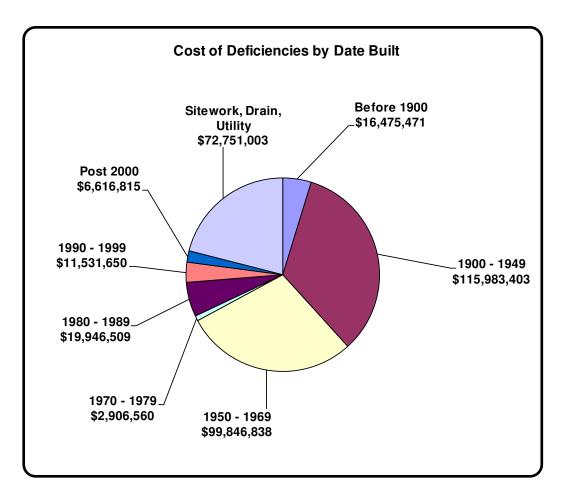
Building System Deficiencies by Age Table 7

General Fund Building Profile Data

Total number of General Fund Facilities	40
Current Replacement Value	\$ 1,297,593,966
Total Gross Sq. ft.	2,446,795
Total Cost of General Fund Building Deficiencies (to date)	\$ 346,058,249

			Cost of	
Date Built	No. of Facilities	Gross Sq. Ft.	Deficiencies	
Before 1900	2	45,546	16,475,471	
1900 - 1949	14	588,680	115,983,403	
1950 - 1969	13	1,284,188	99,846,838	
1970 - 1979	2	22,746	2,906,560	
1980 - 1989	2	94,900	19,946,509	
1990 - 1999	3	304,215	11,531,650	
Post 2000	4	106,520	6,616,815	
Sitework, Drain, Utility	0	n/a	72,751,003	

General Fund Building Age Summary



General Fund Facility Condition Index

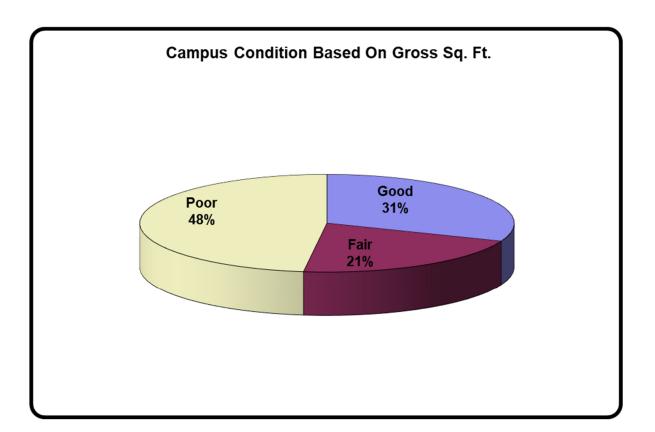
Table 8

General Fund Facility Condition Index

Facility Condition Index =	Backlog Deficiency Current Replacement Value	=	<u>\$346,058,249</u> \$1,297,593,966
Facility Condition Index (All Facilities)	0.27		

General Fund Facility Condition Index Summary

	Fa	cility Condition Inc	lex
	Good (Under .05)	Fair (.0510)	Poor (Over .10)
Number of Facilities	8	2	30
Gross Square ft.	754,731	510,823	1,181,241
Percentage of Campus Gross Sq. ft.	31%	21%	48%



Facility Condition Index (FCI) by Building Table 9

			Year		2021 Building Replacement		Building Deficiencies	Facility Condition
Building Name	Primary Use	Building Sq. Ft.	Built		Value	(/	All Systems)	Index
Poor (Over .10)								
Warner	academic	95,349	1964	\$	46,689,606	\$	26,056,818	0.56
Terrestial and Aquatic Center	academic	5,200	1998		2,546,287		1,392,646	0.55
Briggs	academic	9,500	1937		4,651,871		2,339,433	0.50
Honors College	academic	21,405	1965		1,460,946		646,099	0.44
Paint Research	academic	8,000	1987		5,468,792		2,364,547	0.43
Alexander	academic	86,900	1980		42,552,379		17,581,961	0.41
Roosevelt	academic	75,639	1924		37,038,198		14,511,921	0.39
Kresge Center	academic	12,606	1974		6,172,788		2,355,825	0.38
Ford	academic	33,333	1929		16,322,192		6,132,184	0.38
Sherzer	academic	35,253	1903		17,262,359		5,136,052	0.30
Judy Sturgis Hill	academic	58,205	1959		28,501,280		8,069,139	0.28
One Room Schoolhouse	academic	900	1905		1,228,103		264,652	0.22
Parsons Center	academic	9,948	2007		5,092,782		1,066,700	0.21
Porter	academic	143,775	1966	\$	70,402,397	\$	7,886,994	0.11
Starkweather	non-academic	8,706	1896		4,263,073		6,201,386	1.45
Jones	non-academic	70,491	1948		31,672,541		31,976,322	1.01
Goddard	non-academic	75,856	1955		34,083,107		34,279,359	1.01
University House	non-academic	10,700	2003		6,282,574		4,027,759	0.64
Welch	non-academic	36,840	1896		18,039,467		10,274,085	0.57
emu House	non-academic	1,434	1925		330,635		169,564	0.51
Pierce	non-academic	61,275	1948		30,004,569		14,057,350	0.47
Pease	non-academic	30,181	1914		14,778,750		6,206,733	0.42
Central Operations	non-academic	5,665	1969		2,176,040		839,799	0.39
King	non-academic	61,450	1939		33,410,470		12,666,514	0.38
McKenny	non-academic	107,103	1931		52,445,195		17,972,771	0.34
Boone	non-academic	45,210	1914		22,138,010		3,398,816	0.15
Physical Plant	non-academic	25,300	1995		12,388,667		1,637,078	0.13
Hover	non-academic	11,021	1941		7,531,432		862,557	0.11
Central Stores	non-academic	10,140	1972		4,965,260		550,735	0.11
Heating Plant	non-academic	23,856	1951		81,413,754		8,106,354	0.10
Tota		1,181,241		\$	641,313,521	\$	249,032,156	
Fair (.0510)								
Pray Harrold	academic	237,108	1967		116,104,827		8,153,245	0.07
Halle Library	academic	273,715	1998	Ş	134,030,201	Ş	8,501,926	0.06
Tota		510,823		\$	250,135,028	\$	16,655,171	
Good (Under .05)								
Marshall	academic	70,324	2000		34,435,598		1,522,355	0.04
Mark Jefferson	academic	262,273	1969		185,381,241		5,199,773	0.03
Rackham	academic	45,890	1938		22,470,986		288,532	0.01
Strong	academic	80,713	1957		39,522,787		150,000	0.00
Sill	academic	107,335	1965		62,928,316		225,000	0.00
Sculpture Studio	academic	4,648	1959		2,275,989		-	0.00
800 Lowell	non-academic	168,000	1901		50,358,000		234,257	0.00
Wellness Center	non-academic	15,548	2019	-	8,772,500	4	-	0.00
Tota		754,731		\$	406,145,417	\$	7,619,918	
Sitework, Drains, Utilities I/F					,			
Campus	non-academic	<u>n/a</u>	n/a	_	n/a n/a	\$ ¢	72,751,003	#N/A
Tota	1	n/a			n/a	\$	72,751,003	0.27
Total Building Deficiencies		2,446,795			1,297,593,966		346,058,249	0.27

ARCHITECTURAL SYSTEMS

Overview

Architectural systems are primary building systems and components such as foundations, substructure, superstructure and building envelope. Secondary "exterior" systems include roofing, siding, glass, glazing, windows, exterior doors, flashings, painting and caulking. Secondary "interior" systems include interior partitions, doors, walls, wall finishes, floors, floor finishes, ceilings and ceiling finishes. Maintaining integrity in the primary systems is fundamental to long-term preservation of a building. Architectural systems not only protect the more sensitive mechanical and electrical systems but also reflect on the image of the owner and the quality of the activities and programs performed within the building.

System Condition and Adequacy

The average age of the general fund buildings architectural systems is 26 years. The oldest systems date back to 1896 and include Starkweather and Welch Halls. Both buildings, however, have been restored several times since their construction. Most campus buildings more than 20 years old have had major roofing repairs and/or new roofing at least once. All, but the newest buildings have some building envelope deficiencies. Repairs that have been made to deficiencies in buildings renovated or newly constructed since 2000 have been limited primarily to interior walls, doors, floors and finishes.

Since 2010, the University has spent over \$75 million preserving and renewing the architectural assets of campus facilities. EMU's future investments in the architectural systems of campus buildings are detailed in the 2025-2029 Asset Preservation listing within the Implementation Plan later in this document.

Improvements Completed

Recent Architectural System improvements on campus include, but are not limited to the following:

Rackham Hall Lower Level and Façade
Sculpture Studio Renovation
Rynearson Stadium concrete repairs
Wise Hall Renovation Phases I-III
Fletcher ACC Program Enhancements
Wise Hall Renovation Phase IV
Judy Sturgis Hill Building Lobby Renovations
Roosevelt Auditorium Renovation
Briggs Hall Re-Roof
Rynearson Stadium concrete repairs
Electrical Loop 1 Replacement
Judy Sturgis Hill Building Foundations and Drainage

Completed August 2015 Completed August 2015 Completed August 2015 Completed August 2016 Completed August 2017 Completed August 2017 Completed August 2017 Completed August 2017 Completed August 2018 Completed August 2018 Completed August 2018

- **Elevator Controls Replacement Pierce Hall Bell Tower Repairs** King Hall Re-Roof Judy Sturgis Hill Building Windows and Exterior Panels **COB Flooring Replacement** Welch Hall Window Replacement – Phase I EMU Campus Wellness Center Warner Re-Roof **RecIM Renovations** Sill Hall Renovation and Addition Bowen Re-Roof Starkweather Hall Steam and Condensate Welch Hall Entry Porch Replacement **Energy Center Systems Improvements** Jones (Olds-Robb) Pool Roof **Downing Hall Renovation** Walton Hall Renovation **Putnam Hall Renovation**
- **Completed September 2018 Completed October 2018** Completed July 2019 Completed January 2019 **Completed Summer 2019 Completed October 2019 Completed October 2019** Completed July 2020 **Completed October 2020** Completed November 2020 Completed July 2021 Completed July 2021 Completed September 2021 **Completed September 2021 Completed Spring 2023 Completed August 2023 Completed August 2023 Completed August 2023**

The University has completed a number of ADA Improvements as follows:

- Ford ADA Ramp Pray-Harrold Chair Lifts Porter Bathroom Renovation Oestrike Stadium ADA Accessibility Bowman-Roosevelt Lot ADA Renovations CD-1 Restrooms Rynearson Stadium Home Restrooms Ford Parking Lot Pedestrian Walkways Green Lot II Pedestrian Walkways East Circle Drive and Sidewalks Green Lot I Parking and Pedestrian Walkways Mark Jefferson Lot Pedestrian Walkways New Health Center Pedestrian Walkways Power Assist Doors Various Buildings Sidewalk and ADA curb cut repairs
- Completed August 2010 Completed October 2011 Completed November 2011 Completed July 2013 Completed July 2014 Completed April 2015 Completed August 2015 Completed August 2016 Completed August 2016 Completed August 2017 Completed October 2018 Completed July 2019 Completed September 2019 Continuous and Ongoing Continuous and Ongoing

Architectural System Deficiencies by Building Table 10

		Table 1	0				
Building Name	Primary Use	Building Sq. Ft.	Year Built		2021 Building Replacement Value		Architectural System Deficiencies
Welch	non-academic	36,840	1896	\$	18,039,467	\$	3,131,001
Starkweather	non-academic	8,706	1896	ç	4,263,073	ç	3,098,345
Total Before 1900	non-academic	45,546	1050	\$	22,302,539	\$	6,229,346
Roosevelt	academic	75,639	1924	\$	37,038,198	\$	5,992,027
Sherzer	academic	35,253	1924	ç	17,262,359	ç	3,272,133
Ford	academic	33,333	1929		16,322,192		2,021,829
Briggs	academic	9,500	1925		4,651,871		920,964
Rackham	academic	45,890	1938		22,470,986		288,532
One Room Schoolhouse	academic	900	1905		1,228,103		188,293
Jones	non-academic	70,491	1948		31,672,541		8,895,027
King	non-academic	61,450	1939		33,410,470		3,712,116
Pease	non-academic	30,181	1914		14,778,750		2,631,701
Pierce	non-academic	61,275	1948		30,004,569		1,764,279
Mckenny	non-academic	107,103	1931		52,445,195		1,561,534
Boone	non-academic	45,210	1914		22,138,010		1,478,869
Hover	non-academic	11,021	1941		7,531,432		207,868
emu House	non-academic	1,434	1925		330,635		110,826
800 Lowell	non-academic	168,000	1901		50,358,000		,
Total 1900-1949		756,680		\$	341,643,310	\$	33,045,997
Warner	academic	95,349	1964	\$	46,689,606	\$	11,715,326
Judy Sturgis Hill	academic	58,205	1959	Ŷ	28,501,280	Ŷ	2,639,359
Porter	academic	143,775	1966		70,402,397		951,025
Pray Harrold	academic	237,108	1967		116,104,827		550,527
Honors College	academic	21,405	1965		1,460,946		350,832
Mark Jefferson	academic	262,273	1969		185,381,241		308,233
Sill	academic	107,335	1965		62,928,316		-
Strong	academic	80,713	1957		39,522,787		_
Sculpture Studio	academic	4,648	1959		2,275,989		-
Goddard	non-academic	75,856	1955		34,083,107		10,249,740
Heating Plant	non-academic	23,856	1951		81,413,754		2,093,530
Central Operations	non-academic	5,665	1969		2,176,040		142,688
Total 1950-1969		1,116,188		\$	670,940,289	\$	29,001,261
Kresge Center	academic	12,606	1974	\$	6,172,788	\$	906,002
Central Stores	non-academic	10,140	1972	Ŧ	4,965,260		469,971
Total 1970-1979		22,746		\$	11,138,048	\$	1,375,973
Alexander	academic	86,900	1980	\$	42,552,379	\$	10,168,615
Paint Research	academic	8,000	1987		5,468,792		586,586
Total 1980-1989		94,900		\$	48,021,171	\$	10,755,201
Halle Library	academic	273,715	1998		134,030,201		2,457,912
, Terrestial and Aquatic Cent	academic	5,200	1998		2,546,287		380,466
Physical Plant	non-academic	25,300	1995		12,388,667		392,867
Total 1990-1999		304,215		\$	148,965,155	\$	3,231,244
Parsons Center	academic	9,948	2007	\$	5,092,782	\$	997,434
Marshall	academic	70,324	2000		34,435,598		712,195
University House	non-academic	10,700	2003		6,282,574		1,377,359
Wellness Center	non-academic	15,548	2019		8,772,500		-
Total Post 2000		106,520		\$	54,583,454	\$	3,086,988
Sitework, Drains, & Infrastruc	cture				-		
Campus	non-academic	n/a	n/a		n/a	\$	9,895,512
work, Drains & Infrastructure	non academic	n/a	in a		n/a	\$	9,895,512
		2,446,795		\$	1,297,593,966	\$	96,621,522
Total Building Deficiencies		2,440,/33		Ş	1,237,333,300	Ş	50,021,522

MECHANICAL SYSTEMS

Overview

Mechanical systems and sub-systems are vital, diverse and complex building systems. Preventative and predictive maintenance programs have been developed and implemented to preserve these critical systems and provide a quality learning environment. Failure in any one of the multiple sub-systems can create reactive deficiencies in other sub-systems and seriously detract from the quality of the learning environment and lead to premature depletion of a building.

Mechanical sub-systems include:

Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) Storm and Sanitary Drain Systems Chilled Water Systems Domestic Water Supply Systems

Heating Ventilating and Air Conditioning Sub-System

Overview

Heating Ventilation and Air Conditioning (HVAC) systems encompass a broad, complex, intertwined array of equipment and components including exhaust fans, laboratory fume hoods, air handling units, steam absorbers, electric chillers, rooftop units, base board heat, heating coils, cooling coils, heat exchangers, duct work, fire dampers, direct expansion chillers, radiant ceiling panels, pneumatic controls, electro-mechanical controls, direct digital controls, programmable controllers, thermostats, transducers, and others too numerous to mention. The HVAC systems operate in concert with the building envelope, interior floor plan, and the space utilization program to maintain a comfortable environment for the end user (students, faculty, and staff) of the various areas of the building. Alterations or failures of any one of these systems and/or components can adversely impact occupant comfort and potentially shorten the useful life of the building.

System Condition and Adequacy

A partial deferred maintenance list showing major components of HVAC systems for the state buildings on campus has been compiled. Based on useful service life expectancy, the total deferred maintenance cost for the HVAC systems for these buildings is over \$84 million. Normal life expectancy of various HVAC system components ranges from 10 to 30 years. Currently there are six (6) buildings that have been renovated or newly constructed within the last 10 years that have HVAC systems in good working condition. Some components of these systems are approaching the end of their useful life and will begin to require maintenance, repair, upgrades, or replacement to maintain system functionality. All of these systems must have ongoing preventative maintenance programs to avoid costly repairs, premature deterioration and untimely system failure. The remaining buildings have equipment which has exceeded or is nearing the end of its useful life. These buildings are being kept in service through extraordinary efforts, but are beginning to compromise the quality of the learning environment. EMU's future investments in the mechanical systems of campus buildings are detailed in the 2025-2029 Asset Preservation Listing within the Implementation Plan later in this document.

Storm Drain Sub-Systems

Overview

The University storm drain system consists of 15,500 feet of storm sewer that drains rain water from 480 acres. This system catches all the surface water from roofs, parking lots, and streets on campus. The campus storm system is tied at various points to the City and County systems that eventually drain into the Huron River. City and County systems include a 24-inch main running down Cross Street, which borders the main campus to the south and the 66-inch Owen Drain that runs through the center of campus and collects water from, and intersects with, the 24-inch main, as well as other lines on the northern perimeter.

System Condition and Adequacy

In recent years the University has been experiencing storm water backup into some of its buildings during heavy rains. In July 2021, a 50-year equivalent rain storm flooded numerous buildings causing substantial damage to building systems and finishes. Initial observations indicate that some building roof drains and perimeter footing drains are backing up because the main lines into which they drain are at capacity. The University is concerned that the storm drainage system has reached or exceeded the design capacity; and that the City and County lines have also become overloaded and exceed their design capacity. Consequently, water pressure builds and forces drains to discharge water rather than accept it and carry it away.

The following engineering studies have been performed on selected portions of campus:

Map the existing system to include GPS location of manholes Review the capacity of the existing storm system Determine the elevations of the inverts and building basements Calculate the required system capacity Compare inlet and outlet capacities at each manhole

Dialogue continues regarding a plan of action and the associated costs for the recommendations of these studies.

Chilled Water Sub-Systems

Overview

The University Chilled Water system is a major component of the HVAC system and is used to provide air conditioning for a large portion of campus. The system is composed of five (5) main loops utilizing six (6) steam absorption units totaling 2,973 tons and nine (9) electric chillers totaling 4,109 tons. Buildings are connected to the loops via chilled water supply and return piping running through the steam tunnels or buried underground. Most University pumping systems include a backup condenser water pump and a backup chilled water pump. Cooling is typically needed from mid-April through the end of October. Halle Library and Mark Jefferson require year-round cooling.

Chilled Water System maintenance requires chiller tube bundles be serviced each winter to keep heat transfer surfaces clean; cooling tower water and chilled water require a constant, active water treatment program to control biological growth and prevent scaling and corrosion; steam absorbers require overhauls at three year intervals to maintain proper operation; and testing is performed every five years on both electric and absorption units to verify the integrity of the internal tubes.

System Condition and Adequacy

The campus chilled water loop system lacks redundancy. Many of the components are approaching the end of their useful lives creating the potential for disruption of service. In particular, cooling towers are requiring more costly repairs due to their age and conditions. Because the components are so inter-dependent, any single equipment failure could take a loop out of service causing the loss of one or more buildings.

Loop 1 is the Pierce Loop and serves eight (8) buildings. Loop 1 cooling includes three (3), 250ton steam absorption units with three cooling towers and a 250-ton air-cooled electric chiller located at Pierce Hall. All units appear to be in good condition. The distribution piping for Loop 1 has experienced several failures and will require repair to other sections which are in poor condition.

Loop 2 is the Mark Jefferson Loop. It consists of one (1) 781-ton steam absorber and one (1) 1,000-ton electric chiller both located at Mark Jefferson and one (1) 852-ton steam absorber located at Halle Library. The 300 ton electric chiller at McKenny is no longer functional due to system age and obsolescence and is being evaluated for either repair of replacement. This loop serves seven (7) buildings. A large portion of this system was refurbished as part of the Mark Jefferson Project; however, significant portions of the distribution piping remain in poor condition. Additional load was added to this loop as part of the Rackham renovation in 2012 and more recently the Strong Hall renovation.

Loop 3 serves eight (8) buildings. Chillers included in this loop are located in Pray-Harrold, Alexander, and Porter College of Education Building. Porter C.O.E. has one (1), 590-ton steam

absorber in poor condition and one (1), 600-ton electric chiller in good condition. Pray Harrold has one (1), 500-ton electric chiller which was installed as part of the building renovation. Alexander has one (1), 255-ton electric chiller which is in good condition. The absorber at Porter C.O.E. has exceeded its useful life and is in poor condition. The cooling towers for the units at Porter C.O.E. and Alexander are in poor condition.

Loop 4 was associated with the University's College of Business building in downtown Ypsilanti. As the building was sold in November 2022, this building and its associated chilled water subsystem is no longer part of the University's infrastructure system. It is only included here to preserve the historical numbering convention

Loop 5 is the George Gervin GameAbove Center Loop and serves one building. It contains two (2), 380-ton electric chillers which are in good condition. Ice storage units have been added to this loop in 2019 to provide operational savings by allowing chiller units to run at off-peak hours.

Loop 6 is the Student Center Loop. It contains two (2), 372- ton centrifugal chillers utilizing R 134-a. These units are in good condition.

Chilled Water Loop Equipment Data Sheet Table 11

		CHILLER MODEL & SEF	RIAL NUMBERS		Chille	r Type		Coc	ling Tow	<i>l</i> er
				Electrical		Absorption				
	Building	Model Number	Serial Number	(Tonnage)	(Year)	(Tonnage)	(Year)	(Tonnage)	(Type)	(Year)
	Pierce	ABSC022ALP01AAAFA	L99M04867M-TRANE			250	1999	250	Marley	1999
-		ABSC022A0101AAADA	L95C03092-TRANE			250	1994	250	Marley	1994
Loop		ABSC022A0101AAADA	L95C03091-TRANE			250	1994	250	Marley	1994
Ľ		RTUD 250A 2B02 A1D1	U11J01576-TRANE	250	2011					
			Loop 1 Total	250		750		750		
	Halle-Library	ABTE093FLD01AAABAB	L96K07725-TRANE			852	1998	1,000	BAC	1997
2	Mark Jefferson	ABSC085FLP01AAA	L98H05010-TRANE			781	1998	1,600	Marley	1967
doo		New with MJ Project	York	1,000	2009					
Ľ										
			Loop 2 Total	1,000		1,633		2,600		
	John C. Porter	CVHF064FAIB03UT	L98L06781-TRANE	600	1998			499	Marley	1998
		ABSC05J0LGIFI	L92E13549-TRANE			590	1992	400	Marley	1992
33								400	Marley	1992
Loop								400	Marley	1992
Ľ	Pray-Harold	CVHR049GA4A0PCP2	L10M07001-TRANE	500	2011			860	Marley	2000
	Alexander	RTHB255FLC00EN	U95C06249-TRANE	255	1994			250	Marley	1994
				4.055		500		250	Marley	1994
4	0 H (D)		Loop 3 Total	1,355		590		3,059		
g	College of Business	~			-			~~		
Loop			Building was sold b	y the Univ	/ersity	in Novem	ber 20	22.		
			Loop 4 Total	0		0		0		
2	Convocation Center	RTHB380FLF00	U97K05886-TRANE	380	1997			400	Marley	1997
Loop		RTHB380FMF00	U97K05887-TRANE	380	1997			400	Marley	1997
2										
			Loop 5 Total	760		0		800		
	New Student Center	E2612BE2-A	WA5310045	372	2006			375	Evapco	2006
90		E2612BE2-A	WA5310046	372	2006			375	Evapco	2006
Loop				744				750		
			Loop 6 Total	744		0		750		
			Combined loop totals	4,109		2,973		7,959		

Domestic Water Supply Sub-Systems

Overview

The University water distribution system consists of approximately 13,700 feet of supply line (pipe), most of which is buried.

System Condition and Adequacy

The distribution lines on campus are of various ages and are in various conditions from poor to good

It should be noted that several of the water mains have had "temporary" repairs made on them; as such, the risk of failures increases with time. The future plan is to phase the replacement of these line sections and valves to minimize the impact on connected buildings. A major replacement of the main supple line at the newly renovated Sill Hall was completed in 2022/2023. A 5-year plans for other line replacements is being developed.

Mechanical System Deficiencies by Building Table 12

Building Name	Primary Use	Building Sq. Ft.	Year Built		2021 Building Replacement Value		Mechanical System Deficiencies
Welch	non-academic	36,840	1896	\$	18,039,467	\$	3,153,266
Starkweather	non-academic	8,706	1896	Ŷ	4,263,073	Ŷ	2,036,951
Total Before 1900	non acaacime	45,546	1050	\$	22,302,539	\$	5,190,217
Roosevelt	academic	75,639	1924	\$	37,038,198		4,607,578
Ford	academic	33,333	1924	Ş	16,322,192	ç	2,685,355
Briggs	academic	9,500	1929		4,651,871		1,099,817
Sherzer	academic	35,253	1937		17,262,359		525,000
Rackham	academic	45,890	1903		22,470,986		525,000
One Room Schoolhouse	academic	900	1938		1,228,103		
Jones	non-academic	70,491	1905		31,672,541		11,004,300
McKenny	non-academic	107,103	1948		52,445,195		10,802,447
Pierce	non-academic	61,275	1931		30,004,569		7,159,584
King	non-academic	61,450	1948		33,410,470		4,676,053
Pease	non-academic	30,181	1939		14,778,750		906,030
Boone	non-academic	45,210	1914		22,138,010		275,000
Hover	non-academic	11,021	1914		7,531,432		249,763
800 Lowell	non-academic	168,000	1941		50,358,000		249,703
emu House	non-academic	1,434	1901		330,635		
Total 1900-1949	non-academic	756,680	1925	\$	341,643,310	\$	43,990,927
Warner	academic	95,349	1964	\$	46,689,606		10,740,318
Porter	academic	143,775	1966	Ļ	70,402,397	Ļ	6,052,912
Pray Harrold	academic	237,108	1900		116,104,827		5,579,296
Mark Jefferson	academic	262,273	1969		185,381,241		3,219,635
Judy Sturgis Hill	academic	58,205	1909		28,501,280		3,213,373
Sill	academic	107,335	1965		62,928,316		225,000
Honors College	academic	21,405	1965		1,460,946		75,000
Strong	academic	80,713	1957		39,522,787		, 5,000
Sculpture Studio	academic	4,648	1957		2,275,989		
Goddard	non-academic	75,856	1955		34,083,107		11,500,854
Heating Plant	non-academic	23,856	1955		81,413,754		4,415,315
Central Operations	non-academic	5,665	1969		2,176,040		398,689
Total 1950-1969	non-academic	1,116,188	1909	\$	670,940,289	\$	45,420,391
Kresge Center	academic	12,606	1974	\$	6,172,788	\$	801,131
Central Stores	non-academic	10,140	1974	Ļ	4,965,260	ç	
Total 1970-1979	non-academic	22,746	1372	\$	11,138,048	\$	801,131
		•	1980				,
Alexander	academic	86,900		\$	42,552,379	\$	6,606,770
Paint Research Total 1980-1989	academic	8,000	1987	\$	5,468,792	ć	1,411,711
		94,900		Ş	48,021,171	\$	8,018,481
Halle Library	academic	273,715	1998		134,030,201		3,347,373
Terrestial and Aquatic Center	academic	5,200	1998		2,546,287		805,130
Physical Plant	non-academic	25,300	1995	<u> </u>	12,388,667		845,836
Total 1990-1999		304,215		\$	148,965,155	\$	4,998,340
Marshall	academic	70,324	2000	\$	34,435,598	\$	80,000
Parsons Center	academic	9,948	2007		5,092,782		-
University House	non-academic	10,700	2003		6,282,574		444,951
Wellness Center	non-academic	15,548	2019		8,772,500		-
Total Post 2000		106,520		\$	54,583,454	\$	524,951
Sitework, Drains, & Infrastructure							
Campus	non-academic	n/a	n/a		n/a	\$	16,457,434
otal Sitework, Drains & Infrastructure		n/a			n/a	\$	16,457,434
Total Building Deficiencies		2,446,795		\$	1,297,593,966	\$	125,401,871

Steam Supply and Distribution System

Steam Supply

Overview

The EMU Energy Center supplies steam to campus for all of its heating requirements and that portion of the cooling requirements not supplied with electric chillers. The Energy Center has completed a major upgrade replacing the 1951 Wilkes conventional fired boiler and the 1987 cogeneration system with a new cogeneration system capable of producing up to 7.8 Megawatts of power and 88,000 pounds per hour of steam at 120 psig. The two (2) 1967 Erie City conventional forced draft boilers rated at 100,000 pounders/hour each still remain.

The conventional boilers are capable of burning Natural Gas, No. 6, and No. 2 fuel oil. Presently No. 2 fuel oil is used as a backup in the event of a natural gas interruption which could result in millions of dollars of damage from frozen water lines and heating coils. In addition to physical damage to University assets, without heat normal business operations and classes would have to be canceled, and residents would not be able to stay in the residence halls. EMU affords significant benefits by having an alternative fuel capability available in the event of primary fuel supply loss. Eastern Michigan University's exposure and risks are greatly reduced by the oil tank farm.

System Condition and Adequacy

The two (2) Erie City boilers are 53 years old but serviceable. Experience has shown that at production rates above 85,000 lbs./hours they shake and vibrate to the point that operating staff are using that as the upper limit for each unit. If operated at higher rates it is expected that service problems would rise exponentially and the life expectancy of these units would be seriously impacted. Smoke stacks on both units are experiencing deterioration and will require replacement before the boilers need to be replaced.

Auxiliary systems within the plant which are required during steam production are old, but serviceable; or are being replaced on an as needed basis.

Steam Distribution Sub-Systems

Overview

The steam distribution system is a major component of the campus mechanical systems supplying the energy needed to heat the majority of the main campus building from the Energy Center. The steam distribution piping runs from the Energy Center through two tunnel systems: 1) the North loop running from the Energy Center eastward to Alexander Music Building serves most of the buildings on the North half of campus and is approximately 5,000 feet in length including a six inch spur line serving the Student Center, and 2) the South loop

which is approximately 4,600 feet in length and runs from the Energy Center southeast toward Sherzer then branching off in two directions to Pease and Goddard Hall.

The steam lines transport the steam at 40 pounds per square inch (psi) and vary in diameter from fourteen inches at the Energy Center to six inches at the far extremity between Goddard and Alexander. While the North and South tunnels are not connected, the steam lines are joined between Goddard and Alexander by this six-inch line. Additionally, an eight inch steam line provides 120 psi steam to the two-stage steam absorber at Halle Library via the South tunnel.

System Condition and Adequacy

The North and South tunnels are cast-in-place concrete, which range from poor to good condition depending on the section of tunnel in question. There is water seepage in the tunnel at various expansion joints. Some areas of the tunnel are showing signs of structural distress in the form of varying degrees of reinforcement corrosion and concrete spalling. Drainage, electrical, and ventilation needs to be improved. Pipe support systems are comprised of painted steel frames, located at twelve to fifteen foot intervals. These frames are experiencing varying stages of corrosive deterioration. The electrical service for the steam tunnels is in poor condition. The steam lines in the tunnels, expansion joints, and condensate return lines are in serviceable condition. The asbestos insulation is in serviceable condition but requires frequent maintenance. Several buried steam and condensate lines going from the steam tunnels to specific buildings show signs of failure and are in need of replacement. These include steam/condensate lines serving Snow Health Center, Sill Hall, and Starkweather. A major portion of the main steam supply to CD-1, Wise Hall, Downing Hall, and Best Hall has been replaced; however, spur lines to the individual buildings from the new main may require replacement in the future.

ELECTRICAL SYSTEMS (BUILDINGS)

Overview

The electrical system components within each building include: power transformers, switchgear, power distribution panel main breakers, electric distribution wiring, branch circuit breaker panels, motor control fuse switches and starters, receptacles, and lighting. Like mechanical systems, these systems are vital, complex and intra-dependent. Failure in one component can result in complete system failure.

System Condition and Adequacy

The average age of Electrical Systems in General Fund buildings is 25 years (14 buildings have electrical systems at least 30 years old). As these electrical systems age, replacement parts have become increasingly difficult to obtain. Furthermore, the older systems were not designed to meet contemporary technology demands. In many instances the systems are at maximum capacity limiting the University's ability to support new educational programs. Electric distribution system deficiencies include outdated inefficient lighting systems, an inadequate number of distribution circuits and panels with no spare breakers, or electric capacity. EMU's future investments in the electrical systems of campus buildings are detailed in the 2025-2029 Asset Preservation listing within the Implementation Plan later in this document.

Electrical System Deficiencies by Building Table 13

		Table 13					
					2021 Building		Electrical
		Building	Year	I	Replacement		System
Building Name	Primary Use	Sq. Ft.	Built		Value		Deficiencies
Welch	non-academic	36,840	1896	\$	18,039,467	Ş	699,271
Starkweather	non-academic	8,706	1896		4,263,073		568,288
Total Before 1900		45,546		\$	22,302,539	\$	1,267,559
Roosevelt	academic	75,639	1924	\$	37,038,198	\$	1,807,526
Ford	academic	33,333	1929		16,322,192		775,000
Sherzer	academic	35,253	1903		17,262,359		450,000
Briggs	academic	9,500	1937		4,651,871		-
Rackham	academic	45,890	1938		22,470,986		-
One Room Schoolhouse	academic	900	1905		1,228,103		-
Jones	non-academic	70,491	1948		31,672,541		5,578,472
Pierce	non-academic	61,275	1948		30,004,569		2,587,394
Pease	non-academic	30,181	1914		14,778,750		1,777,656
Mckenny	non-academic	107,103	1931		52,445,195		1,468,444
King	non-academic	61,450	1939		33,410,470		1,316,493
Boone	non-academic	45,210	1914		22,138,010		208,647
emu House	non-academic	1,434	1925		330,635		36,711
800 Lowell	non-academic	168,000	1901		50,358,000		-
Hover	non-academic	11,021	1941		7,531,432		-
Total 1900-1949		756,680		\$	341,643,310	\$	16,006,344
Pray Harrold	academic	237,108	1967		116,104,827		2,023,422
Mark Jefferson	academic	262,273	1969		185,381,241		1,591,140
Judy Sturgis Hill	academic	58,205	1959		28,501,280		1,325,061
Warner	academic	95,349	1964	\$	46,689,606	\$	619,671
Porter	academic	143,775	1966		70,402,397		452,293
Strong	academic	80,713	1957		39,522,787		150,000
Honors College	academic	21,405	1965		1,460,946		-
Sill	academic	107,335	1965		62,928,316		-
Sculpture Studio	academic	4,648	1959		2,275,989		-
Goddard	non-academic	75,856	1955		34,083,107		6,101,385
Central Operations	non-academic	5,665	1969		2,176,040		298,422
Heating Plant	non-academic	23,856	1951		81,413,754		225,000
Total 1950-1969		1,116,188		\$	670,940,289	\$	12,786,395
Kresge Center	academic	12,606	1974	\$	6,172,788	\$	340,679
Central Stores	non-academic	10,140	1972	Ŷ	4,965,260	Ŷ	-
Total 1970-1979		22,746	1372	\$	11,138,048	\$	340,679
	academic		1020	\$	42,552,379		
Alexander		86,900	1980	Ş		\$	275,000
Paint Research Total 1980-1989	academic	8,000	1987	~	5,468,792	ć	73,422
		94,900		\$	48,021,171	\$	348,422
Halle Library	academic	273,715	1998	\$	134,030,201	\$	1,717,491
Terrestial and Aquatic Center	academic	5,200	1998		2,546,287		92,512
Physical Plant	non-academic	25,300	1995		12,388,667		336,700
Total 1990-1999		304,215		\$	148,965,155	\$	2,146,703
Marshall	academic	70,324	2000	\$	34,435,598	\$	324,396
Parsons Center	academic	9,948	2007		5,092,782		69,266
University House	non-academic	10,700	2003		6,282,574		946,844
Wellness Center	non-academic	15,548	2019		8,772,500		-
Total Post 2000		106,520		\$	54,583,454	\$	1,340,506
Sitework, Drains, & Infrastructure							
Campus	non-academic	n/a	n/a		n/a	\$	14,105,372
Total Sitework, Drains & Infrastructure		n/a			n/a	\$	14,105,372
Total Building Deficiencies		2,446,795		\$	1,297,593,966	\$	48,341,981
		_,,		Ŧ	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7	55

ELEVATOR SYSTEMS

Overview

The elevator equipment at Eastern Michigan University varies in age and condition. The oldest General Fund building elevator car still in service was installed in 1936. Elevators are a vital component to meet the ADA requirements and provide access to our campus buildings and facilities. There is a total of 46 elevators in General Fund buildings.

System Condition and Adequacy

All 46 elevators in General Fund buildings are maintained by the Physical Plant staff and are continuously evaluated for condition safety. There are six buildings of two or more stories that do not have elevators.

EMU's future investments in the elevator systems of campus buildings are detailed in the 2025-2029 Asset Preservation listing within the Implementation Plan later in this document.

Elevator System Deficiencies by Building Table 14

		Table 1	.4				
Building Name	Primary Use	Building Sq. Ft.	Year Built		2021 Building Replacement Value		Elevator System Deficiencies
Welch	non-academic	36,840	1896	\$	18,039,467	\$	330,666
Starkweather	non-academic	8,706	1896		4,263,073		-
Total Before 1900		45,546		\$	22,302,539	\$	330,666
Sherzer	academic	35,253	1903	\$	17,262,359	\$	350,000
Roosevelt	academic	75,639	1924		37,038,198		350,000
Rackham	academic	45,890	1938		22,470,986		-
Ford	academic	33,333	1929		16,322,192		-
Briggs	academic	9,500	1937		4,651,871		-
One Room Schoolhouse	academic	900	1905		1,228,103		-
Mckenny	non-academic	107,103	1931		52,445,195		674,818
Pierce	non-academic	61,275	1948		30,004,569		557,293
Jones	non-academic	70,491	1948		31,672,541		481,062
King	non-academic	61,450	1939		33,410,470		414,101
Boone	non-academic	45,210	1914		22,138,010		351,386
Pease	non-academic	30,181	1914		14,778,750		256,978
Hover	non-academic	11,021	1941		7,531,432		162,633
800 Lowell	non-academic	168,000	1901		50,358,000		-
emu House	non-academic	1,434	1925		330,635		-
Total 1900-1949		756,680		\$	341,643,310	\$	3,598,272
Porter	academic	143,775	1966		70,402,397		350,000
Warner	academic	95,349	1964		46,689,606		220,267
Judy Sturgis Hill	academic	58,205	1959		28,501,280		120,412
Mark Jeffers on	academic	262,273	1969		185,381,241		-
Pray Harrold	academic	237,108	1967		116,104,827		-
Sill	academic	107,335	1965		62,928,316		-
Strong	academic	80,713	1957		39,522,787		-
Honors College	academic	21,405	1965		1,460,946		-
Sculpture Studio	academic	4,648	1959		2,275,989		-
Goddard	non-academic	75,856	1955		34,083,107		377,390
Central Operations	non-academic	5,665	1969		2,176,040		-
Heating Plant	non-academic	23,856	1951		81,413,754		-
Total 1950-1969		1,116,188		\$	670,940,289	\$	1,068,069
Kresge Center	academic	12,606	1974	\$	6,172,788	\$	-
Central Stores	non-academic	10,140	1972		4,965,260		-
Total 1970-1979		22,746		\$	11,138,048	\$	-
Alexander	academic	86,900	1980	\$	42,552,379	Ś	411,164
Paint Research	academic	8,000	1987	*	5,468,792	*	-
Total 1980-1989		94,900		\$	48,021,171	\$	411,164
Halle Library	academic	273,715	1998	,	134,030,201		800,000
Terrestial and Aquatic Center	academic	5,200	1998		2,546,287		-
Physical Plant	non-academic	25,300	1995		12,388,667		_
Total 1990-1999	non-academic	304,215	1555	\$		\$	800,000
	a ca da mi a		2000		34,435,598		
Marshall Parsons Contor	academic	70,324	2000	\$		Ş	325,000
Parsons Center	academic	9,948	2007		5,092,782		-
Wellness Center	non-academic	15,548	2019		8,772,500		-
University House	non-academic	10,700	2003	ć	6,282,574	ć	
Total Post 2000		106,520		\$	54,583,454	\$	325,000
Sitework, Drains, & Infrastructure					,		
Campus	non-academic	n/a	n/a	_	n/a	\$	-
Total Sitework, Drains & Infrastructure		n/a			n/a	\$	-
Total Building Deficiencies		2,446,795.00		\$	1,297,593,966	\$	6,533,171

FIRE PROTECTION SYSTEMS

Overview

The Fire Protection category, formerly referred to as Life Safety, within the building includes the fire alarm system, central alarm reporting system (Fireworks), fire sprinkler system, fire pumps, standpipes, portable fire extinguishers, special hazard protection systems, components of the means of egress such as exit signs and emergency lighting systems, fire doors, and eye wash/shower systems and exterior Mass Mall Notification Speaker Array System.

Systems Condition and Adequacy

The University Fire Protection systems are functional but many have aged to the point of requiring repair or replacement. The University's central reporting (Fireworks) system that reports fire and trouble alarms to the Department of Public Safety (DPS) has been updated and is complete. The University continues to schedule buildings with old conventional systems to be upgraded giving DPS the ability to receive point-specific information from buildings having addressable fire alarm systems. This information will allow DPS to know the location and nature of the alarm prior to arrival at the facility. This upgrade system will have improved reliability and redundancy with loop connectivity between all buildings.

The following buildings are completed with the ability to send this point-specific information to DPS:

- Alexander Music Building
- Ford
- Halle
- Mark Jefferson
- Parking Structure
- Pray-Harrold
- Sculpture Studio

- Buell
- Dining Commons 3
- Downing
- Goddard
- Indoor Practice Facility
- Pittman
- Wise

• Warner

The University has completed the installation of an exterior Mass Mall Notification Speaker Array System which is up and fully functional. The system has also been installed and online in several University buildings (Buell, Downing, Goddard, Pittman, Wise, Ford, Warner, Alexander, Halle Library, George Gervin GameAbove Center, Dining Commons III, Mark Jefferson, Central Operations, Rackham, Pray Harrold, Indoor Practice Facility, Student Center, and the Sculpture Studio).

The University has identified over \$40.8 million in Fire Protection System deficiency needs in General Fund buildings. EMU's future investments in the Fire Protection systems of campus buildings are detailed in the 2025-2029 Asset Preservation listing within the Implementation Plan later in this document.

Fire Protection System Deficiencies by Building Table 15

Building Name	Primary Use	Building Sq. Ft.	Year Built		021 Building Replacement Value		ire Protection System Deficiencies
Welch	non-academic	36,840	1896	\$	18,039,467	\$	2,752,083
Starkweather	non-academic	8,706	1896		4,263,073		497,803
Total Before 1900		45,546		\$	22,302,539	\$	3,249,885
Roosevelt	academic	75,639	1924	\$	37,038,198	\$	1,512,497
Ford	academic	33,333	1929		16,322,192		650,000
Sherzer	academic	35,253	1903		17,262,359		538,919
Briggs	academic	9,500	1937		4,651,871		318,652
One Room Schoolhouse	academic	900	1905		1,228,103		76,359
Rackham	academic	45,890	1938		22,470,986		-
Jones	non-academic	70,491	1948		31,672,541		4,662,604
Mckenny	non-academic	107,103	1931		52,445,195		3,465,528
King	non-academic	61,450	1939		33,410,470		2,547,750
Pierce	non-academic	61,275	1948		30,004,569		1,361,248
Boone	non-academic	45,210	1914		22,138,010		899,975
Pease	non-academic	30,181	1914		14,778,750		634,368
Hover	non-academic	11,021	1941		7,531,432		242,293
emu House	non-academic	1,434	1925		330,635		22,027
800 Lowell	non-academic	168,000	1901		50,358,000		-
Total 1900-1949		756,680		\$	341,643,310	\$	16,932,220
Warner	academic	95,349	1964	\$	46,689,606	\$	2,761,237
Judy Sturgis Hill	academic	58,205	1959		28,501,280		770,933
Honors College	academic	21,405	1965		1,460,946		220,267
Porter	academic	143,775	1966		70,402,397		80,764
Mark Jefferson	academic	262,273	1969		185,381,241		80,764
PrayHarrold	academic	237,108	1967		116,104,827		-
Sill	academic	107,335	1965		62,928,316		-
Strong	academic	80,713	1957		39,522,787		-
Sculpture Studio	academic	4,648	1959		2,275,989		-
Goddard	non-academic	75,856	1955		34,083,107		4,801,812
Heating Plant	non-academic	23,856	1951		81,413,754		1,268,610
Central Operations	non-academic	5,665	1969		2,176,040		-
Total 1950-1969		1,116,188		\$	670,940,289	\$	9,984,387
Kresge Center	academic	12,606	1974	\$	6,172,788	\$	204,114
Central Stores	non-academic	10,140	1972		4,965,260		80,764
Total 1970-1979		22,746		\$	11,138,048	\$	284,878
Paint Research	academic	8,000	1987	\$	5,468,792	\$	142,828
Alexander	academic	86,900	1980		42,552,379		120,412
Total 1980-1989		94,900		\$	48,021,171	\$	263,240
Halle Library	academic	273,715	1998		134,030,201		179,150
Terrestial and Aquatic Center	academic	5,200	1998		2,546,287		114,539
Physical Plant	non-academic	25,300	1995		12,388,667		61,675
Total 1990-1999		304,215	2000	\$	148,965,155	\$	355,363
Marshall	academic		2000	\$			
Parsons Center	academic	70,324 9,948	2000 2007	Ş	34,435,598 5,092,782	\$	80,764
Wellness Center	non-academic	15,548	2007		8,772,500		-
University House	non-academic	10,700	2019		6,282,574		
Total Post 2000		106,520	2003	\$	54,583,454	\$	- 80,764
Sitework, Drains, & Infrastructure					. ,		
Campus	non-academic	n/a	n/a		n/a	\$	9,602,649
Total Sitework, Drains & Infrastructure		n/a			n/a	\$	9,602,649
Total Building Deficiencies		2,446,795		\$	1,297,593,966	\$	40,753,388
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ELECTRIC SUPPLY AND DISTRIBUTION SYSTEMS

Overview

The Electrical Supply and Distribution System consists of an electric substation (Coral Substation) containing two 15/20/25,000 kVa transformers supplied by two separate DTE 40 kV feeder lines. The substation is supplying the campus with power at 13,200-volts (13.2 kV). The electrical distribution system has undergone major upgrades/renovations in conjunction with the Energy Center co-generation project and the Loop 1 4,800 V to 13.2 kV conversion project.

System Condition and Adequacy

A large portion of the electrical distribution system is in good condition; however, it should be noted that the transformers and associated conductors for some of the individual buildings have exceeded their useful life and are in questionable condition. A phased approach will be needed to convert these individual transformers from 4,800 V to 13.2 kV.

SITE WORK and DRAINAGE SYSTEMS

Overview

Site work and drainage systems are integral components of primary building systems and include sidewalks, loading docks, exterior ADA improvements, and signage. An assessment of these systems has identified over \$28.4 million in needed improvements. Improving these systems will protect the University's assets and enhance the image of the owner and the quality of life on campus.

System Condition and Adequacy

Since 2010, the University has spent over \$4.6 million preserving the site work and draining assets of the campus systems. These systems have been continually evaluated and consequently ten miles of sidewalks has been replaced in the past eight years with additional walks to be completed in the next year. Drainage repairs have been accomplished to prevent flooding, minimize damage to building systems and landscaping. This work has included installation of new drain tile, repair of catch basins, curbing, and re-grading of certain areas. A continual campus landscape evaluation takes places to install new trees, repair turf, and revitalize landscaping on an as needed basis. Improvements adhere to ADA and building code requirements, resulting in a safer and more accessible campus.

Miscellaneous Retaining Walls	Completed	Summer 2010
Judy Sturgis Hill Building/Sponberg Retaining Walls	Completed	Summer 2013
Porter Retaining Wall/Steps	Completed	Summer 2014
Alexander steps, walks and drainage	Completed	Summer 2015
Sculpture Studio drainage	Completed	Summer 2015
Rackham retaining walls/drainage	Completed	Summer 2015
Cornell site grading and drainage	Completed	Summer 2016
Judy Sturgis Hill Building south foundation drainage	e Completed	Summer 2018
Ford, Boone, Pierce Retaining Wall	Completed	Summer 2019
Cornell Parking Lot Drainage	Completed	Summer 2019
Sill Hall area drainage	Complete	Fall 2020
RecIM north and east drainage	Complete	Summer 2020

Site Work and Drainage System Deficiencies by Building Table 16

		lable 16					
Building Name	Primary Use	Building Sq. Ft.	Year Built		2021 Building Replacement Value	Dra	ite Work & inage System Deficiency
Welch	non-academic	36,840	1896	\$	18,039,467	\$	207,799
Starkweather	non-academic	8,706	1896	Ş	4,263,073	Ş	207,799
Total Before 1900	non-academic	45,546	1890	\$	22,302,539	\$	207,799
Roosevelt	academic	75,639	1924	\$	37,038,198	\$	242,293
Rackham	academic	45,890	1924	Ş	22,470,986	Ş	242,295
Sherzer	academic	35,253	1903		17,262,359		
Ford	academic	33,333	1929		16,322,192		_
Briggs	academic	9,500	1925		4,651,871		_
One Room Schoolhouse	academic	900	1905		1,228,103		-
Jones	non-academic	70,491	1948		31,672,541		1,354,858
Pierce	non-academic	61,275	1948		30,004,569		627,552
800 Lowell	non-academic	168,000	1901		50,358,000		234,257
Boone	non-academic	45,210	1914		22,138,010		184,940
emu House	non-academic	1,434	1925		330,635		-
Hover	non-academic	11,021	1941		7,531,432		-
Pease	non-academic	30,181	1914		14,778,750		-
King	non-academic	61,450	1939		33,410,470		-
Mckenny	non-academic	107,103	1931		52,445,195		-
Total 1900-1949		756,680		\$	341,643,310	\$	2,643,901
Judy Sturgis Hill	academic	58,205	1959	\$	28,501,280	\$	-
Sill	academic	107,335	1965	Ŧ	62,928,316	Ŧ	-
Strong	academic	80,713	1957		39,522,787		-
Sculpture Studio	academic	4,648	1959		2,275,989		-
Porter	academic	143,775	1966		70,402,397		-
Warner	academic	95,349	1964		46,689,606		-
Honors College	academic	21,405	1965		1,460,946		-
PrayHarrold	academic	237,108	1967		116,104,827		-
Mark Jefferson	academic	262,273	1969		185,381,241		-
Goddard	non-academic	75,856	1955		34,083,107		1,248,177
Heating Plant	non-academic	23,856	1951		81,413,754		103,899
Central Operations	non-academic	5,665	1969		2,176,040		-
Total 1950-1969		1,116,188		\$	670,940,289	\$	1,352,077
Kresge Center	academic	12,606	1974	\$	6,172,788	\$	103,899
Central Stores	non-academic	10,140	1972		4,965,260		-
Total 1970-1979		22,746		\$	11,138,048	\$	103,899
Paint Research	academic	8,000	1987	\$	5,468,792	\$	150,000
Alexander	academic	86,900	1980	·	42,552,379	·	-
Total 1980-1989		94,900		\$	48,021,171	\$	150,000
Terrestial and Aquatic Center	academic	5,200	1998		2,546,287		-
Halle Library	academic	273,715	1998		134,030,201		-
Physical Plant	non-academic	25,300	1995		12,388,667		-
Total 1990-1999		304,215		\$	148,965,155	\$	-
Marshall	academic		2000	\$	34,435,598	•	
Parsons Center	academic	70,324 9,948	2000	Ş	5,092,782	Ļ	
University House	non-academic	10,700	2007		6,282,574		1,258,605
Wellness Center	non-academic	15,548	2019		8,772,500		-
Total Post 2000	non academic	106,520	2015	\$	54,583,454	\$	1,258,605
				4	2 1,000,404	Ŧ	1,200,000
<u>Sitework, Drains, & Infrastructure</u>	non-academic	n/a	n/a		n/a	\$	22,690,036
Campus Total Sitework, Drains & Infrastructure	non-acauemic	n/a	II/a		n/a n/a	\$ \$	22,690,036
· •		-		,			
Total Building Deficiencies		2,446,795		\$	1,297,593,966	\$	28,406,317

ENERGY PLAN GOALS

The goals of the Eastern Michigan University Energy Plan are as follows:

Conserve electricity on campus by using the following methods:

- Invest in projects that reduce electrical use. Projects may include:
 - Lighting retrofits
 - Lighting controls
 - Motor replacements
 - Equipment scheduling
 - Building use optimization
 - Computer upgrades
 - Variable frequency drive installations
 - Cooling system upgrades
- Measure and monitor electricity use throughout campus.

Conserve natural gas on campus by using the following methods:

- Invest in projects that will result in reduced natural gas use. Projects may include:
 - Steam trap repairs/replacements
 - Insulation of piping and ductwork
 - Heat recovery
 - Equipment scheduling
 - o Building use optimization
 - o Boiler replacements
 - Boiler control upgrades
 - Heat exchanger replacements
 - Conversion of steam to hot water
 - Heating reset schedules
 - Window replacements

ROADS, STREETS, PARKING LOTS AND STRUCTURES

Overview

The University Parking and Roadway System contains sixty primary parking lots, multiple specialized parking lots, and two parking structures for a total of 9,709 parking spaces. The System also contains 5.75 miles of roads, 11.5 miles of curbs, and 31 miles of sidewalks, providing access to all points on campus for pedestrian and vehicular traffic.

System Condition and Adequacy

EMU's future investments in the University Parking and Roadway System are detailed in the University's Parking 5 Year Plan.

University Roadways & Parking Infrastructure

5-year Plan 2024-2028 Table 17

Lot Name	Lot Condition	<u>Action</u>	<u>Est. Cost</u>
<u>Fiscal Year 1 - 2024</u> Gervin Center	Poor	Replacement	\$ 500,000
Estimated Year Total			\$ 500,000
<u>Fiscal Year 2 - 2025</u> East Circle Drive - Phase II	Poor	Replacement	\$ 800,000
Estimated Year Total			\$ 800,000
Fiscal Year 3 - 2026 West Circle Drive - Phase I	Fair	Replacement	\$ 695,000
Estimated Year Total			\$ 695,000
Fiscal Year 4 - 2027 Oakwood Student Center Improvements	Poor	Renovation	\$ 1,045,000
Estimated Year Total			\$ 1,045,000
Fiscal Year 5 - 2028 West Circle Drive - Phase II	Failed	Replacement	\$ 1,425,000
Estimated Year Total			\$ 1,425,000
Five Year Project Total			\$ 4,465,000

UNIVERSITY LAND

The following table includes a listing of land owned by the University and a determination of whether capacity exists for future development.

Land	Development Plans
Central Campus	There are no current plans for further development.
West Campus	There are no current plans for further development.
(Athletic Campus and EMU	
House)	
800 Lowell Street	The University completed its purchase of this land in August 2020. The
Ypsilanti, MI 48198	property is adjacent to the Northeast portion of the University's central
	campus. The University is currently assessing the potential uses of this
	property.
Parson's Center	There are no current plans for further development.
5833 Bellows Lake Road	
Lake Ann, MI 49650	
Fish Lake Environmental	There are no current plans for further development.
Education Center	
2816 Fish Lake Road	
Lapeer, MI 48446	
Eagle Crest Golf Course	The University leases this property from the Ypsilanti Charter Township on a
1201 S. Huron St.	99 year lease. The University has received a donation for the construction of
Ypsilanti, MI 48197	a golf training facility, which is currently under construction at the Eagle
	Crest Golf Course.

At this time, the University does not intend to explore additional acquisitions of land on the basis to meet future academic demands. The University continues to explore existing land holdings to assess their usefulness in regards to the University's strategic plan.

LAND OBLIGATED TO THE STATE BUILDING AUTHORITY

Land	SBA Lease Expiration
Porter Hall	11/30/2034
Marshall Hall	11/30/2035
Pray Harrold	06/30/2048
Strong Hall	06/30/2054



IMPLEMENTATION PLAN

Major Capital Project Request Five-Year Capital Project Plan Deferred Maintenance Building Maintenance Projects > \$1 Million (FY2025-FY2029) Non-Routine Maintenance Projects (FY2024)

Implementation Plan

Major Capital Project Request

GameAbove COLLEGE of ENGINEERING and TECHNOLOGY

Is the Project a renovation or new construction?	Ren (X)	New (X)
Is there a 5-Year Master Plan available?	Yes (X)	No()
Are professionally-developed Program Statements and/or Schematic Plans available now?	Yes (X)	No ()
Are Match Resources currently available?	Yes (X)	No ()
Has the University identified available Operating Funds	Yes (X)	No ()

Executive Summary

EMU is pleased to submit our State Capital Outlay Request for FY 2025. While the renovation and expansion of Sill Hall was completed for Fall 2020, it is only the first phase of the overall effort to meet the demands of modern engineering and technology programs. Phase II of this effort will renovate, expand and repurpose Roosevelt Hall for immediate and expanding program needs of numerous advanced technology programs, and will further allow for the continued growth of engineering programs by relocating technology programs from Sill Hall to Roosevelt Hall.

The need for these programs is growing at a rapid pace, with the impact of the shortfall of students impacting companies and industries across the state. Approximately 87% of EMU's students come from Michigan, and approximately 72% of our graduates remain in Michigan after graduation. These new high-demand technology-focused programs will therefore prepare Michigan residents for high-demand, high-wage engineering and technology careers to continue growing Michigan's economy.

Introduction

Michigan has seen considerable transformation in both demographics as well as business and industrial needs. Certain disciplines in technology are no longer attracting enough students to remain sustainable while businesses and industries are coping with a deficiency of qualified engineers. Furthermore, many high school graduates are demanding more career-driven disciplines that can assure reasonable career success. With the ever-changing and increasing world of technology, there is a vastly increasing need for educated and qualified engineers and technologists in Michigan and throughout the country. To respond to these realities, and to enhance the investments made and committed in EMU's laboratories, classrooms and faculty, the GameAbove College of Engineering and Technology is committed to improving and expanding its engineering and technology program offerings to meet the current and future needs of Michigan's economy.

GameAbove College of Engineering and Technology Master Plan

Through planning and benchmarking, the College has reviewed current and planned programs to develop a Master Plan to support short and long-term GACET goals. With rapid growth in our existing advanced technology programs such as Cybersecurity, Information Assurance, Embedded Technology, Drone and Aviation Studies as well as expansions and additions to engineering programs such as Mechanical, Electrical and Computer, Civil Engineering, the College projects a 65% growth in enrollment in the next 10-15 years.

In comparing the current GACET facilities to peer institutions, the College is undersized by about 12% of available gross square footage per student with an average of 88 gsf/student. EMU has developed a plan to "right-size" the College for the current student population, and renovate, reprogram and provide new spaces to meet the needs of new programs and advanced technology. The plan provides two phases to meet the demands of new and expanded engineering programs, and to adapt and respond to the tremendous growth and high-tech systems needs of our advanced technology programs.

The initial phases of the Master Plan to meet the current and future needs of the GameAbove College of Engineering and Technology involved renovations and additions to Sill Hall to right size for current offerings, and renovations and renovations, expansion and adaptive reuse of Roosevelt Hall to create room for current and future growth.

Engineering and Technology Complex – Phase I Sill Hall Renovation and Additions (Local Capital Funded – FY 2018)

The modernization of Sill Hall was identified as the first priority to right size facilities for the current engineering and technology programs, and new programs added in Engineering. To that end, EMU's Board of Regents approved a \$40 million renovation and addition project for Sill Hall in December 2017. This project was completed in August 2020.

Engineering and Technology Complex – Phase II Advanced Technology Center – Roosevelt Hall Renovations and Expansion (\$42.5M State Capital Outlay Request – FY 2025)

While the renovation of Sill Hall was completed, we must continue to provide new, effective and efficient educational facilities to meet the immediate and future needs of the advanced technology programs. To that end we are pleased to submit our State Capital Outlay Request for FY 2025, the renovation, expansion and adaptive reuse of Roosevelt Hall. This project is key to the current growth patterns and planned expansion of EMU's growing technology programs.

With both phases of the GACET Master Plan, the College will create a "micro campus" for engineering and technology students, encouraging cross discipline collaboration, and giving an identity to the students and their programs.

The project will include a full renovation of Roosevelt Hall including all building mechanical and electrical systems, interiors, building envelope, IT/AV systems. The adaptive reuse will reimagine the space from an

early 1900's secondary school layout to a new, highly efficient plan providing flexible learning spaces, support and access to high tech systems and components, and provide greater educational and research facilities. The expansion of the facility will provide new entry portals for greater student access and collaborative living/learning spaces, as well as increase ADA accessibility to the building.

In addition to adding dedicated program space, it is essential that the right types of space are provided to support them. Beyond lab and classroom space, it is important to include areas for students to learn by doing hands on activities and student collaboration/teaming areas. Highlights of these support spaces include;

- Maker Spaces
- Specialty Labs
- Cybersecurity networks and labs
- Computer/Simulation Labs
- Virtual and Augmented Reality Labs

- Research Labs
- Student Success Suites
- Student Collaboration areas
- Student Organization and Academic Support areas

An additional benefit of this effort will be the relocation of over 10,000 square feet of technology programs from Sill Hall to Roosevelt Hall. This will allow for the continued growth of the engineering programs while allowing for better alignment of the technology programs in a newly renovated Roosevelt Hall.

Last renovated in 1973, Roosevelt Hall contains 75,639 sf, and houses the Schools of Cybersecurity & Applied Computing (CSAC), Technology & Professional Services Management (STPSM), and components of Visual and Built Environments (SVBE). Additionally, Roosevelt Hall has been the base of operation for the Military Science and Leadership Department and the Reserved Officers Training Corp (ROTC) program.

Programmatically, the Cybersecurity/Information Assurance and Information Technology programs have witnessed a 16% increase in student enrollment and a 25% increase in overall course load. New degrees in Cybersecurity and Information Technology continue this trend.

The Aviation programs have also increased 17% in enrollment over the last five years in response to a significant shortage of pilots worldwide. Current and future integration of our Drone Technology programs with the flight programs demonstrates our commitment to be on the cutting edge of technology in all programs.

Condition Assessments have identified Roosevelt Hall as among the top ten University facilities in greatest need for renovation with nearly \$12.6 million in deferred maintenance needs. Combining the programmatic improvement needs with the necessary replacement and improvements in building systems, building envelope and learning environment will provide an effective and efficient means of meeting the second phase requirements of the GACET Master Plan.

The projected project cost for the Engineering and Technology Complex – Phase II: Advanced Technology Center is \$42.5 million. The project timeline is three years from design approval through construction completion. Initial programming is complete with further programming and schematic design exercises are to follow. The University and GameAbove College of Engineering and Technology stands ready to begin work upon approval.

Operating Costs – Roosevelt Hall

Currently Roosevelt Hall mechanical, electrical and utility systems are at the end stage of their life cycle. The facility is connected to the campus central electrical system resulting in efficient delivery of power, however distribution and capacities are antiquated limiting use and function of the facility and programs. The building is also served from the campus central steam system for heating however once again distribution and steam to hot water transfer equipment is outdated and inefficient. Cooling of Roosevelt Hall is accomplished through several systems, most of which are far past their useful life and require considerable effort and funding to keep operational. New high-efficiency mechanical systems would be installed to provide general cooling for the building with specific systems designed for precise temperature and humidity control for tech heavy programs.

Interior finishes, and space layout create inefficiencies in custodial and maintenance services as well. While many of the interior finish surfaces have great life expectancies, their daily and long term care exceed the new standards for sustainability in modern buildings. New finishes would focus not only on the initial product selection, but also the long term cost of operation.

Over the past five years, the University has invested approximately \$33 million in various energy savings projects which include the replacement of its Co-Generation system and replacement of lighting, plumbing and controls systems. These projects have addressed financial and operational risks on both the demand and supply side of the University's energy needs. The University can now generate over 90% of its electrical and heat needs at approximately half the cost of buying this energy from a utility provider. Additionally, by replacing inefficient lighting, plumbing and controls systems, the University has decreased its electrical needs across the campus. Typically, newly renovated buildings operate at 20-25% energy savings while providing better, more adaptable learning environments.

All operating costs are funded through the University's General Fund.

The University expects an operating cost savings of 10.5%-13% (\$40,000-\$50,000) annually as shown below. Since Roosevelt Hall is currently in an operational state, the renovation will provide for custodial and energy efficiencies beyond what currently exists in the building. The renovation will provide for investments in low/no maintenance materials that will reduce custodial operational costs as well as energy efficient electrical, lighting and plumbing equipment and also controls systems. Although the project includes a 10,000 gsf expansion to the facility, the savings expected from the installation of the maintenance friendly and energy efficient equipment is expected to be greater than the additional utilities and maintenance expenses to be incurred with the additional space.

Оре	r. Cost /	Pre-Reno			Expected	C	Op. Cost /	Renovate		Expected			Savings	
	Sq. Ft.	Sq. Ft	Т	otal Cost	Savings		Sq. Ft	d Sq. Ft.		Costs		Savings	%	Notes
\$	0.25	75,639	\$	18,910	0%	\$	0.25		\$	18,910	\$	-	0.0%	Α
\$	1.27	75,639	\$	96,062	25%	\$	0.95	85,639	\$	81,571	\$	(14,490)	-15.1%	В
\$	1.74	75,639	\$	131,612	3.5%	\$	1.68		\$	127,005	\$	(4,606)	-3.5%	С
\$	1.76	75,639	\$	133,125	25%	\$	1.32	85,639	\$	113,043	\$	(20,081)	-15.1%	D
\$	0.15	75,639	\$	11,346	10%	\$	0.14		\$	10,211	\$	(1,135)	-10.0%	E
\$	5.17		\$	391,054		\$	4.34		\$	350,741	\$	(40,313)	-10.3%	
	<u> </u>	\$ 0.25 \$ 1.27 \$ 1.74 \$ 1.76 \$ 0.15	Sq. Ft. Sq. Ft \$ 0.25 75,639 \$ 1.27 75,639 \$ 1.74 75,639 \$ 1.76 75,639 \$ 0.15 75,639	Sq. Ft. Sq. Ft T \$ 0.25 75,639 \$ \$ 1.27 75,639 \$ \$ 1.74 75,639 \$ \$ 1.74 75,639 \$ \$ 1.76 75,639 \$ \$ 0.15 75,639 \$	Sq. Ft Sq. Ft Total Cost \$ 0.25 75,639 \$ 18,910 \$ 1.27 75,639 \$ 96,062 \$ 1.74 75,639 \$ 131,612 \$ 1.76 75,639 \$ 133,125 \$ 0.15 75,639 \$ 13,426	Sq. Ft. Sq. Ft Total Cost Savings \$ 0.25 75,639 \$ 18,910 0% \$ 1.27 75,639 \$ 96,062 25% \$ 1.74 75,639 \$ 131,612 3.5% \$ 1.76 75,639 \$ 133,125 25% \$ 0.15 75,639 \$ 11,346 10%	Sq. Ft Sq. Ft Total Cost Savings \$ 0.25 75,639 \$ 18,910 0% \$ \$ 1.27 75,639 \$ 96,062 25% \$ \$ 1.74 75,639 \$ 131,612 3.5% \$ \$ 1.76 75,639 \$ 133,125 25% \$ \$ 0.15 75,639 \$ 1.3,46 10% \$	Sq. Ft. Sq. Ft Total Cost Savings Sq. Ft \$ 0.25 75,639 \$ 18,910 0% \$ 0.25 \$ 1.27 75,639 \$ 96,062 25% \$ 0.95 \$ 1.74 75,639 \$ 131,612 3.5% \$ 1.68 \$ 1.76 75,639 \$ 133,125 25% \$ 1.32 \$ 0.15 75,639 \$ 113,346 10% \$ 0.14	Sq. Ft. Sq. Ft Total Cost Savings Sq. Ft d Sq. Ft. \$ 0.25 75,639 \$ 18,910 0% \$ 0.25 \$ 1.27 75,639 \$ 96,062 25% \$ 0.95 85,639 \$ 1.74 75,639 \$ 131,612 3.5% \$ 1.68 \$ 1.76 75,639 \$ 133,125 25% \$ 1.32 85,639 \$ 0.15 75,639 \$ 113,462 10% \$ 0.14	Sq. Ft. Sq. Ft Total Cost Savings Sq. Ft d Sq. Ft. \$ 0.25 75,639 \$ 18,910 0% \$ 0.25 \$ \$ \$ 1.27 75,639 \$ 18,910 0% \$ 0.95 85,639 \$ \$ 1.27 75,639 \$ 96,062 25% \$ 0.95 85,639 \$ \$ 1.74 75,639 \$ 131,612 3.5% \$ 1.68 \$ \$ \$ 1.76 75,639 \$ 133,125 25% \$ 1.32 85,639 \$ \$ 0.15 75,639 \$ 11,346 10% \$ 0.14 \$	Sq. Ft. Sq. Ft Total Cost Savings Sq. Ft d Sq. Ft. Costs \$ 0.25 75,639 \$ 18,910 0% \$ 0.25 \$ 18,910 \$ 1.27 75,639 \$ 96,062 25% \$ 0.95 85,639 \$ 81,571 \$ 1.74 75,639 \$ 131,612 3.5% \$ 1.68 \$ 127,005 \$ 1.76 75,639 \$ 133,125 25% \$ 1.32 85,639 \$ 13,043 \$ 0.15 75,639 \$ 13,426 10% \$ 0.14 \$ 0.14	Sq. Ft. Sq. Ft Total Cost Savings Sq. Ft d Sq. Ft. Costs \$ 0.25 75,639 \$ 18,910 0% \$ 0.25 \$ 18,910 \$ \$ 1.27 75,639 \$ 96,062 25% \$ 0.95 85,639 \$ 81,571 \$ \$ 1.74 75,639 \$ 131,612 3.5% \$ 1.68 \$ \$ 127,005 \$ \$ 1.76 75,639 \$ 133,125 25% \$ 1.32 85,639 \$ 13,043 \$ \$ 0.15 75,639 \$ 13,342 20% \$ 0.14 \$ 0.214 \$	Sq. Ft. Sq. Ft Total Cost Savings Sq. Ft d Sq. Ft. Costs Savings \$ 0.25 75,639 \$ 18,910 0% \$ 0.25 18,910 \$. \$ 1.27 75,639 \$ 96,062 25% \$ 0.95 85,639 \$ 81,571 \$ (14,490) \$ 1.74 75,639 \$ 131,612 3.5% \$ 1.68 \$ 27,005 \$ (4,606) \$ 1.76 75,639 \$ 133,125 25% \$ 1.32 85,639 \$ 113,043 \$ (20,081) \$ \$ 0.15 75,639 \$ 11,346 10% \$ 0.14 \$ 10,211 \$ (1,135)	Sq. Ft. Sq. Ft Total Cost Savings Sq. Ft d Sq. Ft. Costs Savings % \$ 0.25 75,639 \$ 18,910 0% \$ 0.25 \$ 18,910 \$ 0.0% \$ 18,910 \$ 0.0% \$ 18,910 \$ 0.0% \$ 18,910 \$ 0.0% \$ 18,910 \$ 0.0% \$ 18,910 \$ 0.0% \$ 18,910 \$ 0.0% \$ \$ 18,910 \$ 0.0% \$ \$ 18,910 \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ \$ 0.0% \$ \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ 10.0%

A - Physical Plant Administration is expected to be consistent with pre-renovation expenses as the functions do not materially change as a result of a renovation being completed.

B - Building Maintenance savings are expected as a result of newer building systems requiring less maintenance costs following completion of a renovation. The expectation is that these expenses would be reduced significantly for 10 years, followed by 20+ years of normal maintenance

C - EMU's historical experience with savings associated with custodial services following a renovation is between 2.5%-5% - as such we have

estimated 3.5% savings. The savings are associated with the upgrading of building materials and finishes that require less annual maintenance.

D - Utilities expenses are expected to decrease as a result of the installation of higher efficiency building systems including lighting, plumbing, insulation and control systems. Upon the completion of other renovation projects on campus, the University has experienced a reduction of XX% on the various utilities related expenses.

E - Ground Maintenance savings are expected as a result of exterior infrastructure enhancements, including snow melt systems at main entrances, which would provide savings for grounds maintenance work. EMU estimates the savings to be 10% for this element.

Overall Program "Capital Project" Costs

The total GACET Master Plan project is estimated to cost \$82,500,000 broken down into the following phases:

Phase I: Sill Hall Renovation and Additions (Completed August 2020)

Construction Costs	\$31,650,000
Administrative Costs and Fees	\$ 3,900,000
Owners Costs	<u>\$ 4,450,000</u>
Total:	\$40,000,000 (Locally Funded)

<u>Phase II: Advance Technology Center</u> – Roosevelt Hall (Proposed)

Construction Costs	\$33,300,000
Administrative Costs and Fees	\$ 4,000,000
Owners Costs:	<u>\$ 5,200,000</u>
Total:	\$42,500,000 (State Capital Outlay Request)

Other Alternatives Considered

The adjacent and offline Jones and Goddard Halls were considered for the growth and expansion of engineering and technology programs, however the technical aspects of adapting facilities designed for residence life including low floor-to-floor heights, limited structural capabilities, and advancing technology needs dictated a plan to more efficiently utilize space currently allocated but underutilized for advanced technology programs.

Roosevelt Hall is centrally located within the GameAbove College of Engineering and Technology existing facilities in the academic core of campus – close to residence halls, other academic facilities, library and parking. The buildings structure is in very good condition and therefor warrants renovation and adaptive reuse rather than pursuit adding new square footage to the university's academic inventory.

Roosevelt Hall, built in 1924 is a landmark within the Ypsilanti community. EMU is the second oldest public university in the State of Michigan. The state's investment in buildings and infrastructure should be preserved when possible and financially feasible to do so. The construction costs associated with a new building were carefully studied and found not to be fiscally prudent, given the constraints on available state and institutional funds for capital projects. We believe, when possible, existing buildings that are structurally sound should be renovated and modernized as opposed to razing buildings for new structures.

Programmatic Benefit to State Taxpayers and Specific Clientele or Constituencies

The programmatic benefit of this project will be to better serve current and future students through enhanced learning spaces and technology and to help the University recruit and retain students and faculty. Importantly, approximately 87% of EMU's students come from Michigan and approximately 72% of our graduates remain in Michigan after graduation. This project will therefore provide an important infusion of highly trained engineers to stay in Michigan and help fuel Michigan's economy.

EMU's Engineering and Technology Complex will provide economic benefit to the City of Ypsilanti and the eastern Washtenaw County area through the creation of critically needed new construction jobs over three years. EMU has a significant impact on the local economy. For this area of Washtenaw County, it is imperative that EMU remain a vital and vibrant institution. It should be noted upon successful completion of this project, EMU will have renovated three of our four oldest non-improved buildings on campus, thereby continuing our systematic approach to sustainable design through renovation and adaptive reuse of these aging but historic structures.

Funding Resources

EMU would utilize its existing financial reserves to fund the project with the State.

Five-Year Capital Project Plan (FY25-29)

The below projects include key project plans valued at over \$1.0 million that the University projects during the FY2024 capital plan and 2025-2029 period, respectively.

Project Name:	Amount:
FY24 Capital Plan	
Indoor Practice Facility Renovation	\$ 2,075,000
3D Arts Studio (*EMU Received Matching Funds)	\$ 1,700,000
Title IX Investments	\$ 1,300,000
College of Business Relocation (Multi-Year Project)	\$ 1,000,000
All Other Projects Totaling Less Than \$1m Individually	<u>\$ 6,675,000</u>
Total FY24 Capital Plan	\$12,750,000
Notable Future Projects & Capital Plan Totals	
Roosevelt Hall Renovation (Major Capital Project Submission)	\$ 42,500,000
College of Business Relocation (Multi-Year Project)	\$ 10,000,000
Rynearson Stadium Turf Replacement	\$ 1,000,000
Jones-Goddard Demolition	\$ 7,000,000
Other Housing Demolition	<u>\$ 10,000,000</u>
Total Five-Year Capital Project Plan (FY25-29)	\$ 70,500,000

Annually, the University will bring forward a capital plan between \$12-15 million to the Board of Regents. This capital plan will encompass notable projects, but also all routine maintenance, Information Technology, safety and security, compliance and other investments made to the campus. Over the 5 year period between 2025-2029, the University would expect to have capital investments of \$60m-75m, not including the Roosevelt Hall renovation project. Including the Roosevelt Hall renovation project with the state, this would be a total of \$102.5m-\$117.5 million.

College of Business Relocation

The University is relocating the College of Business onto its central campus. The University is currently collaborating between internal stakeholders to determine the most ideal location to meet the academic programmatic needs for the College of Business. The University expects that the total investment to be approximately \$15,000,000 and required a multi-year phased renovation plan.

3D Arts Complex

The University has committed to enhancements in the 3D Arts programs. Combined with a donation from the Windgate Foundation, the \$7,500,000 project will unite programs from three different buildings, enhancing equipment and technologies, and offering interdisciplinary experiences. The project is scheduled to be complete for the Fall 2024 semester.

Roosevelt Hall

In the Fiscal Year 2024 major project request submission, the University submitted Roosevelt Hall to the State Budget Office. The Roosevelt Hall renovation supported the GameAbove College of Engineering &

Technology's advanced technology programs. The submitted project included an initial budget of \$42,500,000, Roosevelt Hall currently has \$14,510,000 in deferred maintenance (representing 4.2% of the University's total deferred maintenance), which would be eliminated upon the completion of the renovation.

The Roosevelt Hall renovation would complete Phase II of the Engineering & Technology Complex project. Phase I included the University's self-funded \$40,000,000 renovation to Sill Hall to support the University's existing and new engineering programs. The Roosevelt Hall project proposal would include all building mechanical and electrical systems, interiors, and IT/AV systems, while also reimagining the existing floorplan to provide flexible learning spaces, support and provide access to high tech systems and provide the space and equipment for greater educational and research facilities.

The proposed renovations to Roosevelt Hall's buildings systems and infrastructure will generate operational savings. These investments are estimated to be \$11,000,000 and the University anticipates operational savings of \$40,000 annually due to the significant upgrades to more efficient systems and materials. The savings represents a 10% operational expense savings as a result of the investments in building systems.

Housing Demolition

Following the completion of the existing housing stock renovations and construction of new apartment complexes, the University plans to demolish a number of housing facilities. These include some combination of Jones-Goddard, Brown-Munson, Best, Buell, Hoyt, Hill, and Pittman Halls. Assessments are still currently being performed over the expected costs of the demolition projects, but the University currently expects total costs to be approximately \$17,000,000 during the FY25-29 period.

Deferred Maintenance

As noted in Table 4, the University's general fund deferred maintenance backlog is \$320,308,602. The University's financial position does not allow it to address all of the deferred maintenance immediately or over the next five years. On an annual basis, the University approves a capital plan, which is generally valued at approximately \$15,000,000, of which approximately 66%-75% of this is related to ongoing routine maintenance. The remaining \$3,000,000-5,000,0000 does not allow for the University to make significant reductions in the deferred maintenance of its buildings, without issuing debt to pay for a large renovation project. Due to the University's financial situation, the University expects to submit a Fiscal Year 2025 capital plan within \$10,000,000-\$15,000,000.

It should be noted that of the \$346,058,249 of deferred maintenance, it includes approximately \$66,255,000 (19.1%) related to the shuttered Jones-Goddard residence halls, which the University expects to be demolished during FY24.

Ongoing State Building Authority Financed Projects

The University does not currently have any on-going projects being financed by the State Building Authority.

Building Maintenance Projects Greater Than \$1M (FY2025-2029)

Project Name:	Amount:
Campus Electrical System Improvements *	\$ 2,500,000
Fire Alarm Replacement – Various Buildings *	\$ 2,200,000
Elevator Systems – Various Buildings *	\$ 1,800,000
Mechanical Systems – Various Buildings *	\$ 8,300,000
Roof Replacements – Various Buildings *	<u>\$ 7,000,000</u>
Total Building Projects Greater than \$1 Million:	\$21,800,000
* Multiveer Preject Remaining Relance /Total Funding	

* Multiyear Project – Remaining Balance/Total Funding

Non-Routine Maintenance Projects (FY2024)

In FY2024, the University has budgeted for \$3,075,000 of capital related expenditures attributable to non-routine maintenance.

Project Element:	Amount:	Funding Source:
Indoor Practice Facility Renovation	\$2,075,000	Tuition & Fees
Contingency	<u>\$1,000,000</u>	Tuition & Fees
Total Non-Routine Maintenance:	\$3,075,000	

APPENDIX 1

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APPENDIX 2

Fall 2023 Undergraduate Enrollment by College, Department and Major

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
Academic Affairs	Continuing Education	Continuing Education	-	1	1	1	-	-	1
	Continuing Education Total		-	1	1	1	-	-	1
	Undeclared	Eastern Scholars Program	-	30	30	30	-	-	30
	Undeclared Total		-	30	30	30	-	-	30
	University - General Studies	Early College Alliance	115	138	253	160	5	88	253
		ESL Intensive English Language	4	-	4	4	-	-	4
		Exploratory	202	63	265	105	29	131	265
		Guest/Self Improvement	5	23	28	22	4	2	28
		Individualized Studies Program	54	48	102	24	38	40	102
		Individualized Studies-Intent	6	46	52	23	16	13	52
		Undeclared	23	45	68	28	27	13	68
	University - General Studies Total		409	363	772	366	119	287	772
Academic Affairs Total			409	394	803	397	119	287	803
College of Arts & Sciences	Africology&African Amer Studie	Africology/African Am Studies	1	2	3	2	1	-	3
	Africology&African Amer Studie Total		1	2	3	2	1	-	3
	Biology	Biology	288	68	356	175	7	174	356
		Biology - Teaching	6	1	7	3	-	4	7
		Pre-Med/Pre-Health Professions	54	5	59	29	2	28	59
		Pre-Medicine/Osteopathy	12	1	13	4	-	9	13
		Pre-Veterinary	4	-	4	1	-	3	4
	Biology Total		364	75	439	212	9	218	439
	Chemistry	Biochemistry	49	6	55	32	3	20	55
		Biochemistry - General	9	3	12	7	1	4	12
		Chemistry	29	6	35	20	-	15	35
		Chemistry - General	6	5	11	9	-	2	11
		Chemistry - Teaching	1	-	1	1	-	-	1
		Fermentation Science	3	1	4	2	-	2	4
		Pre-Dentistry	9	3	12	6	-	6	12
		Pre-Mortuary Science	2	-	2	-	-	2	2
		Pre-Pharmacy	4	-	4	2	-	2	4
		Professional Chemistry	-	1	1	-	1	-	1
	Chemistry Total		112	25	137	79	5	53	137

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
	Comm, Media & Theatre Arts	Arts and Entertainment Mgmt	20	4	24	4	4	16	24
		Cinema Studies	25	4	29	15	1	13	29
		Comm, Media & Thtr Arts Comp	20	-	20	6	-	14	20
		Comm, Theatre Arts - Teaching	6	2	8	7	-	1	8
		Communication	139	47	186	25	49	112	186
		Digital Media Production	87	19	106	43	6	57	106
		Electrnc Media/Film -Film Conc	3	-	3	1	-	2	3
		Electronic Media-Film Studies	-	1	1	-	1	-	1
		Entertainment Design/Tech	20	6	26	15	1	10	26
		Journalism	30	3	33	17	1	15	33
		Media Studies and Journalism	23	6	29	15	1	13	29
		Musical Theatre	8	1	9	6	-	3	9
		Theatre Arts	35	5	40	26	-	14	40
	Comm, Media & Theatre Arts Total		416	98	514	180	64	270	514
	Computer Science	Computer Science	141	38	179	63	10	106	179
		Computer Science Applied	189	57	246	117	4	125	246
		Computer Science Curriculum	19	2	21	11	-	10	21
	Computer Science Total		349	97	446	191	14	241	446
	Economics	Economics	19	3	22	5	2	15	22
		Economics - BBA	2	-	2	-	1	1	2
		Economics - BBA Intent	8	2	10	2	2	6	10
		Quantitative Economics	6	-	6	3	-	3	6
		Quantitative Economics - Comb	-	1	1	1	-	-	1
	Economics Total		35	6	41	11	5	25	41
	English Language & Literature	Children's & Young Adult Lit	8	2	10	6	-	4	10
		Creative Writing	3	1	4	3	-	1	4
		English	71	22	93	47	8	38	93
		English Language	1	-	1	1	-	-	1
		English Linguistics	-	1	1	-	1	-	1
		Language, Literature and Writg	-	2	2	2	-	-	2
		Language, Litr, Writg - Tchrs	84	24	108	57	3	48	108
		Professional Writing	-	1	1	-	-	1	1
		Public Relations	24	2	26	6	-	20	26
	English Language & Literature Total		191	55	246	122	12	112	246
	Geography & Geology	Earth Science	5	1	6	1	1	4	6
		Earth Science - Teaching	6	-	6	4	-	2	6
		Geography	7	3	10	5	1	4	10
		Geography/History Comp Maj	1	1	2	1	-	1	2
		Geology - General	2	1	3	1	1	1	3
		Geology - Professional	18	5	23	17	-	6	23
		Geospatial Info Sci & Tech	7	1	8	4	-	4	8
		Geotourism & Hist Preservation	7	-	7	2	-	5	7
		Urban and Regional Planning	16	2	18	7	-	11	18
	Geography & Geology Total		69	14	83	42	3	38	83
	History & Philosophy	History	50	22	72	22	9	41	72
		History/Geography Comp Maj	20	3	23	8	4	11	23
		Philosophy	11	3	14	5	-	9	
		Religious Studies	4	1	5	2	-	3	78 5

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Tota
		Social Stu/Geography Comp Maj	2	2	4	2	-	2	4
		Social Stu/History Comp Maj	92	27	119	47	5	67	119
		Social Stu/Poli Sci Comp Maj	14	5	19	7	-	12	19
	History & Philosophy Total		193	63	256	93	18	145	256
	Interdiscip Arts & Sciences	Data Science & Analytics	21	5	26	11	-	15	26
		Environ Sci & Society Interdis	91	12	103	46	5	52	103
		Neuroscience Interdisciplinary	62	12	74	40	-	34	74
	Interdiscip Arts & Sciences Total		174	29	203	97	5	101	203
	Mathematics and Statistics	Actuarial Science and Economic	18	1	19	6	-	13	19
		Elem Ed Math Comprehensive	-	4	4	4	-	-	4
		Mathematics	18	4	22	11	1	10	22
		Mathematics-Secondary Educ	49	11	60	33	1	26	60
		Statistics	12	1	13	3	1	9	13
	Mathematics and Statistics Total		97	21	118	57	3	58	118
	Music and Dance	Dance	16	1	17	9	1	7	17
		Music	20	9	29	15	-	14	29
		Music Education, Instrumental	74	10	84	36	1	47	84
		Music Education, Vocal	26	1	27	13	-	14	27
		Music Performance	22	6	28	12	-	16	28
		Music Therapy	29	10	39	24	-	15	39
	Music and Dance Total		187	37	224	109	2	113	224
	Physics and Astronomy	Integrated Science Sec Teach	11	4	15	8	-	7	15
		Physical Sci Tchg - Bio Min	1	-	1	1	-	-	1
		Physics	11	2	13	9	1	3	13
		Physics-Engineering	7	-	7	4	-	3	7
		Physics-Research	11	1	12	11	-	1	12
		Science Literacy for Physics	1	-	1	1	-	-	1
	Physics and Astronomy Total		42	7	49	34	1	14	49
	Political Science	Combined MPA Program - Intent	2	-	2	2	-	-	2
		International Affairs	14	8	22	4	4	14	22
		Political Science	80	9	89	28	4	57	89
		Pre-Law Undeclared	18	-	18	8	-	10	18
		Public and Nonprofit Administr	11	3	14	7	1	6	14
		Public Safety Administration	4	3	7	1	5	1	7
	Political Science Total		129	23	152	50	14	88	152
	Psychology	Psychology	550	96	646	203	53	390	646
	Psychology Total		550	96	646	203	53	390	646
	School of Art and Design	Animation and Gaming	1	-	1	-	-	1	1
		Art	123	28	151	68	2	81	151
		Art - 30 Hour	16	8	24	9	1	14	24
		Art History	6	1	7	5	-	2	7
		K-12 Visual Art Education	47	12	59	34	2	23	59
		Simulation, Animation & Gaming	110	24	134	80	2	52	134
	School of Art and Design Total		303	73	376	196	7	173	376
	Sociology/Anthro/Criminology	Anthropology	23	10	33	11	4	18	33
		Criminology and Criminal Justc	201	51	252	68	48	136	252
		Sociology	25	9	34	11	6	130	34
	Sociology/Anthro/Criminology Total		249	70	319	90		171	

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
	Women's and Gender Studies	Women's and Gender Studies	10	2	12	-	1	11	12
	Women's and Gender Studies Total		10	2	12	-	1	11	12
	World Languages	French	2	2	4	1	-	3	4
		German Studies	1	-	1	-	-	1	1
		Japanese Lang, Cult -Teaching	1	1	2	-	2	-	2
		Japanese Language & Culture	17	10	27	7	8	12	27
		K-12 Bilingual Education	3	-	3	2	-	1	3
		K12 Certification in French	2	-	2	1	-	1	2
		K12 Certification in German	-	2	2	1	-	1	2
		K12 Certification in Spanish	4	2	6	4	-	2	6
		Language and Internatnl Trade	5	-	5	1	1	3	5
		Spanish	7	2	9	4	1	4	9
		Spanish - Teaching	1	-	1	-	-	1	1
		Tchng Eng to Spkrs Oth Lng Int	6	2	8	2	2	4	8
	World Languages Total		49	21	70	23	14	33	70
College of Arts & Scien	ces								
Total			3,520	814	4,334	1,791	289	2,254	4,334
College of Business	Accounting, Finance & Info Sys	Accounting	56	24	80	19	12	49	80
		Accounting Information Sys-Int	5	2	7	1	1	5	7
		Accounting Information Systems	2	-	2	-	-	2	2
		Accounting/Accounting 150 hrs	5	4	9	-	-	9	
		Accounting/Accounting 150 Int	8	2	10	3	-	7	10
		Accounting-Int	65	12	77	27	5	45	77
		Acctg/Tax Consulting 150 Int	1	-	1	-	-	1	1
		AIS/Accounting 150 Int	2	1	3	2	-	1	3
		Business Analytics	-	1	1	1	-	-	1
		Computer Information Sys-Intnt	19	10	29	8	4	17	29
		Computer Information Systems	19	10	29	14	-	15	29
		Finance	54	24	78	9	15	54	78
		Finance-Intent	96	7	103	29	8	66	103
	Accounting, Finance & Info Sys Total		332	97	429	113	45	271	429
	Business Administration	Business Administration-Undecl	119	33	152	50	24	78	152
		International Business-Intent	30	5	35	11	4	20	35
	Business Administration Total		149	38	187	61	28	98	187
	Management	Entrepreneurship	6		10	1	5	4	10
		Entrepreneurship-Intent	43	10	53	18	8	27	
		General Business	12	15	27	-	14	13	
		General Business-Intent	111	19	130	31	23	76	
		Management	39	31	70	1	39	30	
		Management-Intent	81	16	97	29	14	54	
	Management Total		292	95	387	80	103	204	387
	Marketing	International Bus/Economics	1		1		-	1	1
		International Bus/Entrepreneur	1		1		-	-	1
		International Bus/Finance	2		2		-	2	
		International Bus/Marketing	2		2		1	1	
		International Bus/SupplChnMgmt	3		3	1	1	2	
		Marketing	64		76		26	47	
		Marketing-Intent	130	8	138	31	10	97	138

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
		Supply Chain Management	29	20	49	-	22	27	49
		SupplyChain Management Intent	38	14	52	9	13	30	52
	Marketing Total		270	54	324	44	73	207	324
College of Business Total			1,043	284	1,327	298	249	780	1,327
	Special Education & Communication Sciences and								
College of Education	Disorders	Comm Science Dis K12 Intent	6	2	8	4	1	3	8
		Comm Sciences & Disorders	62	9	71	25	-	46	71
		Comm Sciences Disord K12	1	-	1	-	-	1	1
		Elem Cognitive Impairment	9	6	15	12	-	3	15
		Elem Emotional Impairment	4	3	7	5	-	2	7
		Elem Phy/Other Health Impair	-	1	1	1	-	-	1
		K-12 Autism Spectrum Dis - Elm	18	7	25	17	-	8	25
		K-12 Autism Spectrum Dis - Sec	4	4	8	5	1	2	8
		K-12 Comm Sci & Disord Elem	-	1	1	1	-		1
		Secdry Cognitive Impairment	3	3	6	3	-		6
		Secdry Emotional Impairment	2	-	2	1	-	1	2
		Sp Ed K12 Endorsement	21	6	27	12	-	15	
		Spec Ed Learning Dis - Elem	3	5	8	7	-	1	
		Spec Ed Learning Dis - Sec	2	2	4	2	-	2	4
		Special Education-Undeclared	2	-	2	1	1	-	2
	Special Education & Communication Sciences and								
	Disorders Total		137	49	186	96	3	87	186
	Teacher Education	Children and Families	13	9	22	11	2	9	
		Elem Early Child Teach & Learn	303	45	348	105	19	224	
		Elem Ed Early Childhood Comp	30	49	79	59	1	19	
		Elem Ed Integrated Sci Comp	2	2	4	2	-	2	
		Elem Ed Language Arts Comp	17	16	33	22	-	11	
		Elem Ed Reading Comprehensive	6	7	13	8	-	5	
		Elem Ed Social Studies Comp	10	4	14	5	1	8	
		Elementary Education-Intent	1	1	2	-	1	1	2
		Language Arts Group	-	1	1	1	_	-	1
		Secondary Education-Intent	-	2	2	2	_	-	2
		Social Studies Grp for Elem Ed	-	1	1	1	_	-	1
		Teacher Prep - Elementary	3	7	10	2		8	
		Teacher Prep - Secondary	22	62	84	45	3	36	
		Teaching & Learning	12	1	13	7		5	
		Teaching & Learning - Sec Cert	7	1	8	4		4	
		Two Minors - Elem Ed	15	11	26	16	1	9	
	Teacher Education Total		441	219	660	290	29	341	660
College of Education Total			578	268	846	386	32	428	
College of Engineering &			5.0					20	
Fech	Coll of Technology Interdisc	Industrial-Vocationl Education	1	_	1		_	1	1
		Sec Ed Engrng & Tech Workforce	21	-	21		_	6	
	Coll of Technology Interdisc Total	see to thighly a rech workforce	21		22			7	
	Engineering, School of	Computer & Elec Eng Technology	38	- 99	137			18	
	Engineering, school of	Computer Engineering Tech	3					3	
		Electrical & Comp Eng - Intent	43	13				20	
		Electrical & Comp Engineering	21	13				14	
								- 14	
		Electronic Engineering Technol Mechanical Eng Tech - Intent	2	2				- 13	81 <u>138</u>

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
		Mechanical Engineering	61	14	75	55	-	20	75
		Mechanical Engineering -Intent	65	14	79	53	-	26	79
		Mechanical Engineering Technol	6	5	11	7	1	3	11
		Pre-Engineering	8	1	9	6	-	3	9
		Product Design & Development	2	1	3	3	-	-	3
		Product Dsgn Engineering Tech	47	83	130	68	36	26	130
	Engineering, School of Total	· · · · · · · · · · · · · · · · · · ·	317	373	690	386	158	146	690
	Info Sec & App Comp, School of	Cybersecurity	13	6	19	6	3	10	19
		Cybersecurity - Combined Int	41	6	47	7	13	27	47
		Info Assrnce & Cyber Def - Int	1	1	2	-	1	1	2
		Info Assurance & Cyber Defense	144	60	204	25	61	118	204
		Information Technology	16	5	21	2	2	17	21
		Information Technology -Intent	18	2	20	1	4	15	20
	Info Sec & App Comp, School of Total	internation reenhology intern	233	80	313	41	84	188	313
	Marketing	SupplyChain Management Intent	-	1	1	-	1	-	1
	Marketing Total			1	1	-	1		1
	Tech & Prof ServMgt, School of	Aviation Flight Tech	- 21	8	29	- 14	2	- 13	29
		Aviation Flight Tech - Intent	103	18	121	94	6	21	121
		Aviation Management Technology	29	8	37	12	4	21	37
				6		12	4	15	27
		Aviation Mgmt Tech - Intent	21 50	14	27 64	23	- 8	33	64
		Bus, Mgmt, Mktg, Tech	1						
		Hotel and Restaurant Mgmt	14	14	28	5	2	21	28
		Legal Assistant	- 7	1	1	-	1	-	1
		Paralegal	7	9	16	3	2	11	16
		Paralegal - Intent	11	7	18	4	4	10	18
		Technology Management	19	43	62	1	55	6	62
	Tech & Prof ServMgt,School of Total		275	128	403	168	84	151	403
	Visual&Built Envmt, School of	Apparel, Textile Merchandising	1	-	1	-	-	1	1
		Civil Engineering	13	-	13	8	-	5	13
		Civil Engineering - Intent	14	1	15	10	-	5	15
		Communication Technology	7	8	15	6	-	9	15
		Construction Management	70	89	159	63	34	62	159
		Fashion Marketing Innovation	38	4	42	11	2	29	42
		Interior Design	79	19	98	37	2	59	98
		Pre-Architecture	6	1	7	4	-	3	7
	Visual&Built Envmt, School of Total		228	122	350	139	38	173	350
College of Engineering & Tech Total			1,075	704	1,779	749	365	665	1,779
College of Health & Human									
Serv	School of Health Sciences	Clin Lab Sci - Cytogenetics	1	-	1	-	-	1	1
		Clin Lab Sci - Histotechnology	3	-	3	1	-	2	3
		Clin Lab Sci - Med Lab PreProf	-	1	1	1	-	-	1
		Clin Lab Sci - Med Lab Science	30	11	41	25	3	13	41
		Clinical Lab Sciences (Clinic)	1	-	1	1		-	1
		Clinical Sciences	5		6	3		3	6
		Combined OT (BS/MOT)	12		12	11		1	12
		Cytogenetics	3		3			1	
		Dietetics - Combined	15	_	15	-	- 6	9	
		Dietetics - Combined Intent	26	26	52	2	32	18	82 52

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
		Health Administration	33	21	54	8	11	35	54
		Health Administration Intent	22	7	29	4	7	18	29
		Pre-OT	43	11	54	11	1	42	54
		Therapeutic Recreation	19	19	38	21	2	15	38
	School of Health Sciences Total		217	101	318	90	67	161	318
	School of HIth Prom/Human Perf	Combined Athl Trng - Intent	14	3	17	9	2	6	17
		Combined Athl Trng (BS/MATR)	2	-	2	1	-	1	2
		Combined ExSci/Ath Trng - Int	11	-	11	8	-	3	11
		Combined ExSci/Athl Trng	1	-	1	-	-	1	1
		Exer Sci Ortho\Prosth Comb Int	28	-	28	20	-	8	28
		Exercise Sci & Phy Comb - Int	12	2	14	10	1	3	14
		Exercise Sci & Physio - Comb	1	-	1	-	-	1	1
		Exercise Sci Ortho\Prosth Comb	4	-	4	4	-	-	4
		Exercise Science	136	11	147	68	-	79	147
		Exercise Science-Intent	3	1	4	3	-	1	4
		Public Health	19	4	23	9	-	14	23
		Public Health - Intent	18	1	19	2	-	17	19
		Sport Management	124	16	140	69	5	66	140
		Sport Perf & Fitness Entr	-	1	1	-	1	-	1
	School of Hith Prom/Human Perf Total		373	39	412	203	9	200	412
	School of Nursing	Nursing	228	10	238	185	3	50	238
		Nursing - 2nd Bachelor	49	2	51	49	-	2	51
		Nursing (Completion)-Intent	7	2	9	4	1	4	9
		Nursing Intent	317	47	364	131	16	217	364
		RN to BSN Nursing	25	270	295	-	294	1	295
		RN to BSN Nursing - Intent	1	39	40	1	39	-	40
	School of Nursing Total		627	370	997	370	353	274	997
	School of Social Work	Social Work	110	61	171	111	5	55	171
		Social Work - Intent	102	40	142	66	18	58	142
	School of Social Work Total		212	101	313	177	23	113	313
ollege of Health &									
uman Serv Total			1,429	611	2,040	840	452	748	2,040
Grand Total			8,054	3,075	11,129	4,461	1,506	5,162	11,129

Fall 2023 Graduate Enrollment by College, Department and Major

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
Academic Affairs	Graduate Studies - University	Graduate Academic Pathway	-	1	1	1	-	-	1
		Graduate ESL Pathway	-	1	1	1	-	-	1
		Interdisciplinary Studies	-	1	1	-	-	1	1
		Undeclared	clared 1 16	17	6	11	-	17	
	Graduate Studies - University Total		1	19	20	8	11	1	20
Academic Affairs Total			1	19	20	8	11	1	20
College of Arts & Sciences	Africology&African Amer Studie	Africology/African Am Studies	-	5	5	3	-	2	5
	Africology&African Amer Studie Total		-	5	5	3	-	2	5
	Biology	Biology General	1	10	11	8	1	2	11
		Ecology, Evolution & Organ Bio	5	10	15	15	-	-	15
		Molecular/Cellular Biology	5	8	13	13	-	-	13
	Biology Total		11	28	39	36	1	2	
	Chemistry	Chemistry	1	16	17	16	-	1	17
	Chemistry Total		1	16	17	16	-	1	17
	Comm, Media & Theatre Arts	Applied Drama/Theatre Young	3	4	7	3		3	7
		Arts Administration	2	-	2	-	-	2	2
		Communication	3	7	10	1	2	7	10
		Theatre Arts - Drama/Theat/Yng	2	1	3	2	-	1	3
		Theatre Arts - General	2	1	3	2	-	1	3
		Theatre Arts - Interp/Perform	2	-	2	2	-	-	2
	Comm, Media & Theatre Arts Total		14	13	27	10	3	14	27
	Computer Science	Computer Science	15	12	27	23	1	3	
	Computer Science Total		15	12	27	23	1	3	27
	Economics	Applied Econometrics	3	2	5	5	-	-	5
		Economics	1	1	2	2	-	-	2
		International Econ & Devlpmnt	-	1	1	-	-	1	1
		Quantitative Economics - Comb	1	-	1	1	-	-	1
		Trade & Development	-	1	1	1	-	-	1
	Economics Total		5	5	10	9	-	1	10
	English Language & Literature	Children's Literature	-	11	11	-	11	-	11
		Creative Writing	5	3	8	7	1	-	8
		English Linguistics	1	5	6	4	1	1	6
		Literature	5	5	10	9	-	1	10
		Writing Studies	3	2	5	-	2	3	5
	English Language & Literature Total		14	26	40	20	15	5	40
	Geography & Geology	Geographic Info Systems	5	2	7	6	-	1	7
		Historic Preservation	3	29	32	30	-	2	32
		Urban and Regional Planning	3	-	3	3	-	-	3
	Geography & Geology Total		11	31	42	39	-	3	42

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
	History & Philosophy	History	3	13	16	8	2	6	16
		Philosophy	4			9	-	1	10
		Social Science	1	1	2	-	1	1	2
	History & Philosophy Total		8	20	28	17	3	8	28
	Mathematics and Statistics	Applied Statistics	5	4	9	9	-	-	9
		Mathematics	3		8	8	-	-	8
	Mathematics and Statistics Total		8	9	17	17	-	-	17
	Music and Dance	Music	5	9		14	-	-	14
	Music and Dance Total		5	9		14	-	-	14
	Physics and Astronomy	Physics	-	5	5	5	-	-	5
	Physics and Astronomy Total		-	5	5	5	-	-	5
	Political Science	Local Govt Management	1	-	1	1	_	-	1
		Public & Nonprofit Adm BA/MPA	1	-	1	1	_	-	1
		Public Administration	5	11	16	11	2	3	16
	Political Science Total		7		18	13	2	3	18
	Psychology	Clinical Behavioral Psychology	11		23	12	-	11	23
	i sychology	Clinical Psych Pre-Doctorate	4		7	4	-	3	7
		Clinical Psychology	16			28		2	30
		Clinical Psychology - PhD	11			32	4	3	39
			1	- 20	1	52	- 4		1
	Davah ala mu Tatal	Psychology				- 76			
	Psychology Total	K 10 Viewel Art Education	43	-	100		4	20	100
	School of Art and Design	K-12 Visual Art Education	-	1	1	1	-	-	1
		Studio Art - MA	2		2	1	-	1	2
		Studio Art - MFA	5		6	4	-	2	6
	School of Art and Design Total		7			6	-	3	9
	Sociology/Anthro/Criminology	Criminology and Criminal Justc	3	8		6	1	4	11
		Cultural Museum Studies	1	-	1	-	-	1	1
		Sociology	1	-		4	-	-	4
	Sociology/Anthro/Criminology Total		5	11	16	10	1	5	16
	Women's and Gender Studies	Women's and Gender Studies	4	4	8	3	-	5	8
	Women's and Gender Studies Total		4	4	8	3	-	5	8
	World Languages	Spanish	-	3	3	-	2	1	3
		TESOL	3	9	12	5	4	3	12
	World Languages Total		3	12	15	5	6	4	15
College of Arts & Sciences Total			161	276	437	322	36	79	437
College of Business	Accounting, Finance & Info Sys	Accounting	6	11	17	5	5	7	17
		Accounting/Accounting 150 hrs	8	7	15	2	5	8	15
		Finance MS	1	-	1	-	1	-	1
		Information Systems	14	6	20	17	-	3	20
	Accounting, Finance & Info Sys Total		29	24	53	24	11	18	53
	Business Administration	Business Administration	7	29	36	12	9	15	36
		Business Analytics	1	4	5	-	2	3	5
		E-Business	-	1	1	1	_	-	1
		Entrepreneurship	-	4				_	4
		Executive	_	1		-		1	1
		Finance	2					4	8
		Human Resource Management	2					5	14
			2						
		Information Systems	_	.,	.)	1		1	
		Information Systems International Business	- 1	2			-	1	2

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
	· · · ·	Marketing	2		6	1	2	3	6
		Master of Business Admin	32	35	67	4	25	38	67
		Nonprofit Management	-	1	1	-	-	1	1
		Sport Management	1	-	1	-	-	1	1
		Supply Chain Management	-	5	5	3	1	1	5
	Business Administration Total		50	111	161	30	52	79	161
	Management	Entrepreneurship	-	1	1	-	1	-	1
		Human Resource/Org Dev-China	28	-	28	28	-	-	28
		Human Resource/Org Develpmnt	7	46	53	17	12	24	53
	Management Total		35	47	82	45	13	24	82
	Marketing	Integrated Marketing Comm	13	6	19	-	19	-	19
	Marketing Total		13	6	19	-	19	-	19
College of Business Total			127	188	315	99	95	121	315
College of Education	Leadership & Counseling	Academic Advising	1	-	1	-	-	1	1
		Admin Leadership in Higher Ed	-	3	3	-	1	2	3
		Basic School Admin	1	32	33	-	33	-	33
		Clinical Mental Health Counsel	26	35	61	58	1	2	61
		College Counseling	5	6	11	11	-	-	11
		Educational Leadership	5	50	55	24	19	12	55
		Helping Interventins/Multicult	1	-	1	1	-	-	1
		Higher Ed Student Affairs	12	15	27	6	_	21	27
		K12 Administration	7	97	104	1	95	8	104
		School Counseling	5	8	13	. 11	1	1	13
	Leadership & Counseling Total		63	246	309	112	150	47	309
	Special Education & Communication Sciences and								
	Disorders	Autism Spec Dis No Current Crt	_	3	3	1	2	- I	3
		Comm Sciences & Disorders	60	23	83	. 82		1	83
		Learning Dis No Current Cert	-	1	1	-	1	-	1
		Learning Disabilities	-	1	1	-	1	-	1
		SEM-T El Ed Cognitive Impair	_	2	2	_	2	-	2
		Sp Ed Admin & Supervision	-	9	9	4	5	-	9
		Sp Ed Curriculum Development	_	1	1	1		-	1
		Spec Ed Tchg Endorsement	-	7	7	2	5	-	7
		Special Ed Certified Tchr	-	49	49	1	48	-	49
		Special Ed Non-Cert Tchr	3	5	8	1	7	-	8
		Special Education	8	55	63	11	46	6	63
		Special Education - FA19 Only	-	1	1		1	-	1
	Special Education & Communication Sciences and						· · ·		
	Disorders Total		71	157	228	103	118	7	228
	Teacher Education	Curriculum & Instruction	10	60	70	-	70	-	70
		Early Childhood Education	1	46	47	_	47	-	47
		Educational Psychology	7		45	-	45	-	45
		Educational Studies	1	24	25	- 25	- 45	_	25
		Literacy Coaching	-	1	1	- 25	1		1
		Reading	- 6		53	- 1	52		53
		Secdry Tching - Bio Conc	1				52	- 2	2
		Secdry Tching - Engl Conc	1			- 1			Z
		Secdry Tching - Int Sci Conc	1			1	-	1	5
		Secndry Comm Taught World Lang	1	1	2	1	-	1	2

College	Department	Major	Full-time	Part-time	Grand Total	In-Person	Online-Only	Both	Grand Total
		Social Foundations	-	1	1	-	1	-	1
		Teacher Certification Renewal	-	1	1	-	1	-	1
		Teacher Endorsement	-	1	1	-	1	-	1
	Teacher Education Total		29	230	259	30	221	8	259
College of Education Total			163	633	796	245	489	62	796
College of Engineering & Tech	Coll of Technology Interdisc	Technology Doctorate	11	14	25	18	3	4	25
	Coll of Technology Interdisc Total		11	14	25	18	3	4	25
	Engineering, School of	Computer Aided Engineering	3	5	8	1	2	5	8
		Engineering Management	1	26	27	-	26	1	27
		Polymers and Coatings Technlgy	4	8	12	6	6	-	12
		Quality Management	-	26	26	1	24	1	26
	Engineering, School of Total		8	65	73	8	58	7	73
	Info Sec & App Comp, School of	Cybersecurity	17	46	63	6	47	10	63
		Cybersecurity - Combined	2	-	2	1	-	1	2
	Info Sec & App Comp, School of Total		19	46	65	7	47	11	65
	Tech & Prof ServMgt, School of	Technology Studies	2	19	21	-	19	2	21
	Tech & Prof ServMgt,School of Total	Construction Management	2	19	21	-	19	2	21
	Visual&Built Envmt, School of	Construction Management	9	7	16	12	-	4	16
	Missis 10: Devils Frances California da Stratal	Interior Design	-	1	2		-	1	2
College of Engineering & Tech Total	Visual&Built Envmt, School of Total		<u>10</u> 50	<u>8</u> 152	<u>18</u> 202	<u>13</u> 46	- 127	5 29	18
College of Health & Human Serv	Phys Asst Studies, School of	Physician Assistant Studies	29	-	202	40 29	-	29	202 29
College of Health & Human Selv	Phys Asst Studies, School of Total		29		29	29 29		-	29
	School of Health Sciences	Clinical Research Admin	5	- 10	15	14	-	-	15
	School of Health Sciences	Combined OT (BS/MOT)	22	1	23	23			23
		Dietetics	25	1	25	-	10	- 16	26
		Good Clinical Practices		1	1	1		- 10	1
		Health Administration	4	9	13	5	1	7	13
		Health Informatics	-	1	1	1	-	-	1
		Human Nutrition	_	9	9	1	6	2	9
		Occupational Therapy	32	1	33	33		-	33
	School of Health Sciences Total		88	33	121	78	17	26	121
	School of Hith Prom/Human Perf	Athletic Training	8	_	8	8	-	-	8
		Combined Athl Trng (BS/MATR)	4	-	4	4	-	-	4
		Exercise Physiology	2	5	7	2	2	3	7
		Exercise Sci Ortho\Prosth Comb	2	-	2	2	-	-	2
		Health Education	-	1	1	1	-	-	1
		Orthotics/Prosthetics	34	-	34	34	-	-	34
		Physician Assistant Studies	30	-	30	30	-	-	30
		Public Health	6	16	22	13	1	8	22
		Sport Management	13	12	25	5	4	16	25
	School of Hith Prom/Human Perf Total		99	34	133	99	7	27	133
	School of Nursing	Adlt-Gert Primary Nur Post-BSN	17	9	26	21	2	3	26
		Nursing Education	-	20	20	1	18	1	20
		Nursing Practice - Post MSN	-	3	3	3	-	-	3
	School of Nursing Total		17	32	49	25	20	4	49
	School of Social Work	Family & Children's Services	-	1	1	1	-	-	1
		Mental Health & Chemical Dep	-	1	1	-	-	1	1
		Social Work	17	102	119	81	2	36	119
	School of Social Work Total		17	104	121	82	2		87 121
College of Health & Human Serv Tota	al		250	203	453	313	46		⁰⁷ 453
Grand Total			752	1,471	2,223	1,033		-	2,223