

Submitted by: William Decatur, Vice President, Finance and Business Operations

**FY2019 State Appropriation Request and
FY2019-2023 Five-Year Capital Outlay Plan**

Recommendation

It is recommended that the Board of Governors approve the FY2019 State Appropriation Request for the Science, Technology, Engineering, and Math (STEM) Innovation Center and the corresponding FY2019-2023 Five-Year Capital Outlay Plan.

Background and Project Description

FY2019 STATE APPROPRIATION REQUEST – STEM INNOVATION CENTER

Beginning in FY 2001, the University has been required to submit a Five-Year Capital Outlay Plan (the Plan) to the State along with an annual Capital Outlay Project Request. As required, the Plan includes information regarding the University's instructional and research programming, staffing and enrollment, facilities assessment, and construction project priorities. The comprehensive submittal is still being prepared and is due to the State Budget Office November 1st. Included here for approval is the construction priority proposed to be submitted.

As was the case during the past three years the University submitted the STEM Innovation Learning Center as its top priority Capital Outlay Project Request for funding consideration in the State's FY2018 budget. The project was approved in July of 2017 for planning purposes. State approval for construction and the associated appropriation of \$14.75M is on track for a July 2018 approval. Per instructions from the Michigan Office of Budget and Management, the STEM Innovation Learning Center, because of its planning status, must be Wayne State's FY2019 state appropriation request.

The proposed project will renovate and repurpose the former Science and Engineering Library. The project will provide undergraduate instructional laboratories and support spaces for the 25 foundational STEM courses in biology, chemistry, math, and physics, which will continue to undergo transformation through the efforts of a National Science Foundation grant titled *Student Success Through Evidence-based Pedagogies*. This critical initiative will improve STEM student retention, time to degree, and graduation rates. Space may also be provided for courses in engineering, computer science, geology, nutrition and food science, psychology, and anthropology, all of which demand more instructional laboratory capacity due to the unprecedented growth rates in undergraduate student enrollment. The project also features several new program enhancements, outlined below, that will increase student skill set acquisition well beyond foundational course work.

Planned space components include 1.)Flexible general purpose classrooms and instructional laboratories that are rich with technology to permit the transformation of

Submitted by: William Decatur, Vice President, Finance and Business Operations

traditional lecture-driven instruction to collaborative, hands-on, real life, team and project based learning, 2.)Maker/hacker labs that will give students interdisciplinary exposure to skill set development that is not possible in most instructional settings, 3.)Dedicated classroom and office space for a specific department to oversee the operation of the building, 4.)Student gathering spaces to study, engage in interdisciplinary discussion, or have a conversation with the faculty instructor, and 5.)Specific office space dedicated to STEM outreach to K-12. The project will include considerable upgrades to the building systems and building envelope to bring the 1970 Science and Engineering Library into service for this center while taking advantage of the sound structure of the building and excellent location.

The facility will allow integration and reassignment of many existing and transformational redesigned STEM courses that are currently offered in aged and obsolete facilities and teaching labs, some of which were constructed over fifty years ago and have seen limited updates since. Courses from departments that are presently disbursed throughout main campus will be brought together to take advantage of interdisciplinary teaching and learning opportunities and shared resources. Most importantly, however, is that this project will provide a critical context for best practices in STEM teaching and learning that will translate into more graduates who will be successful in their chosen field.

By implementing the planned STEM Innovation Learning Center, Wayne State will significantly improve its facilities dedicated to STEM teaching and learning environments. These are resources that are critical in preparing students to excel in an increasingly advanced and interconnected global society. In addition to the significant advantage that the facility will provide to our students, the University and the State will both benefit from increasing the number of STEM graduates who are well prepared to meet a rising need and to contribute to the State's economic progression.

Wayne State is requesting \$14.75 million in State Capital Outlay funding. The University will contribute at minimum a 50% match which would lead to a total project cost of \$29.5M or more. The University will utilize philanthropic gifts or bond proceeds to fund its share of the project.

FY2019-FY2023 FIVE-YEAR CAPITAL OUTLAY PLAN

The instructions from the State indicate that a Five-Year Capital Outlay Plan must be approved annually by the Board. Accordingly, the administration requests approval of the following construction priorities proposed to be submitted.

Wayne State University's last Long Range Facilities Master Plan was refreshed in 2008. The University is developing a consultant-assisted proposal for a Comprehensive Campus Wide Space Analysis and a University Master Plan at this time. This comprehensive plan will guide capital plans for years to come. The Five-Year Capital

Submitted by: William Decatur, Vice President, Finance and Business Operations

Plan presented here does not have benefit of an up-to-date comprehensive master plan.

Throughout this document, Wayne State University has presented comprehensive information regarding its capital project plans. Consistent with the FY15, FY16, FY17, and FY18 plans, this 5-Year Capital Outlay Plan continues to present the STEM Innovation Learning Center as Wayne State's priority State Capital Outlay Project Request for funding consideration. In addition to the STEM Innovation Learning Center, the University has in progress plans to advance several other capital projects as described below. As steps are taken during the next several months to update the University Master Plan and fundraising efforts, current plans may be modified.

Status of Ongoing State Building Authority Funded Projects

STEM Innovation Center (\$29.5 million) following confirmation of planning approval from the Department of Technology, Management and Budget office, the University released a Request for Proposal for programming and design services. A program advisory committee, chaired by the Provost, has been created and the University anticipates starting the programming process by the end of October 2016. The primary charge for the committee and design professionals is to assist in identifying and consolidating undergraduate science, technology, engineering and mathematics classrooms and laboratories currently spread across campus.

The Integrative Biosciences Center Building (formerly the Multidisciplinary Biomedical Research Center) is the most recent State supported project at Wayne State University. Construction of the project is complete and the University continues to use this facility as a prime recruiting tool for new, interdisciplinary research efforts focused on urban communities and health disparities.

Non-State Capital Outlay Projects In Progress

Mike Ilitch School of Business (\$59.0 million) is currently in construction, the project includes approximately 127,000 gross square feet to replace the current use of Prentiss Hall and the Rands House on the main campus. The project develops a site off the main campus, in the burgeoning downtown business district of Detroit. A substantial philanthropic gift provided funding for this building.

Electrical Utility Conversion (\$6.0 million) will provide new electrical services to all former Detroit Public Lighting buildings. This project provides the scope and necessary upgrades that Detroit Edison (DTE) will not provide.

New Data Center (\$16.9 million) is currently in design, and will provide an approximately 10,000 square foot current and best-practice environment to support the University's technology services while offering flexibility for future growth.

Submitted by: William Decatur, Vice President, Finance and Business Operations

Weight Room Addition to Matthaei (\$2.3 million) 11,000 square foot additional to provide comprehensive weight room facilities for student athletes.

Anthony Wayne Drive Housing (\$119.1 million) will provide 800 new beds of on-campus apartment style options to satisfy growing and unmet demand. The project is currently in construction.

Thompson House Conversion to Student Housing (\$5.9 million) will provide approximately 80 beds of additional housing capacity on Cass Avenue to help satisfy unmet demand. The project is currently in construction.

University Deferred Maintenance Program (\$6.5 million) is an annual, campus-wide initiative and includes regular investments in deferred maintenance beyond the projects listed previously.

Planned Non-State Capital Outlay Projects

Campus-Wide Facilities Master Plan (\$1.0 million) will review previous master plans, completed in 2001 and updated in 2008, in terms of the University's current facilities and academic needs. The master plan will be a comprehensive, data-driven effort. Planned projects that follow will be evaluated through the lens of this master plan effort.

Class Lab Back-fill Renovations for STEM and Research (\$10.0 million) will renew existing teaching laboratories or convert them to new research space following the completion of the STEM Innovation Learning Center.

Prentis Façade Improvement and Interior Renovations (\$3.0 million) is planned to provide necessary façade improvements to this historic Yamasaki building. Once the building is vacated for the move to the new Mike Ilitch School of Business, interior renovations will also commence to allow repurposing of the facility.

Hilberry Gateway Performance Complex (\$65.0 million) will provide new construction of a full service, 350-seat theatre, a 100-seat "black box" performance space and full "back of house" production support spaces. The project will also renovate the existing Hilberry Theatre to create a state of the art jazz performance space, assisted by a philanthropic donation.

Chatsworth Residence Hall Renovation (\$32.0 million) will provide renovation of this historic, 1920's era residential building. The project will completely renovate the building to create 368 beds in a total of 96 units. The project will also include upgrades to mechanical and electrical systems as well as accessibility improvements.

Parking Structure and Related Improvements (\$10.0 million) will continue a multi-year initiative to structurally repair and upgrade various parking structures. The program

Submitted by: William Decatur, Vice President, Finance and Business Operations

also includes important surface parking lot improvements such as paving, site lighting, gate and control equipment, and surface water drainage systems.