RB25
University of Maryland Eastern Shore
University System of Maryland

Capital Budget Summary

Summary of State-owned Projects Funded in Governor's Request
($ in Millions)

Project Title	*Prior Approp.*	*FY 2014 Request*	*Future Estimated*	*Estimated Total*	*DLS FY 2014 Recommd.*
New Engineering and Aviation Science Building	$6.600	$22.695	$62.200	$91.495	$22.695
Total	**$6.600**	**$22.695**	**$62.200**	**$91.495**	**$22.695**

Fund Source	*Prior Approp.*	*FY 2014 Request*	*Future Estimated*	*Estimated Total*	*DLS FY 2014 Recommd.*
GO Bonds	$6.600	$22.695	$62.200	$91.495	$22.695
Total	**$6.600**	**$22.695**	**$62.200**	**$91.495**	**$22.695**

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Summary of Recommended Bond Actions

1. New Engineering and Aviation Sciences Building

   Approve.

2. Section 12 – UMES – New Engineering and Aviation Science Building

   Approve the pre-authorization for the 2014 session.

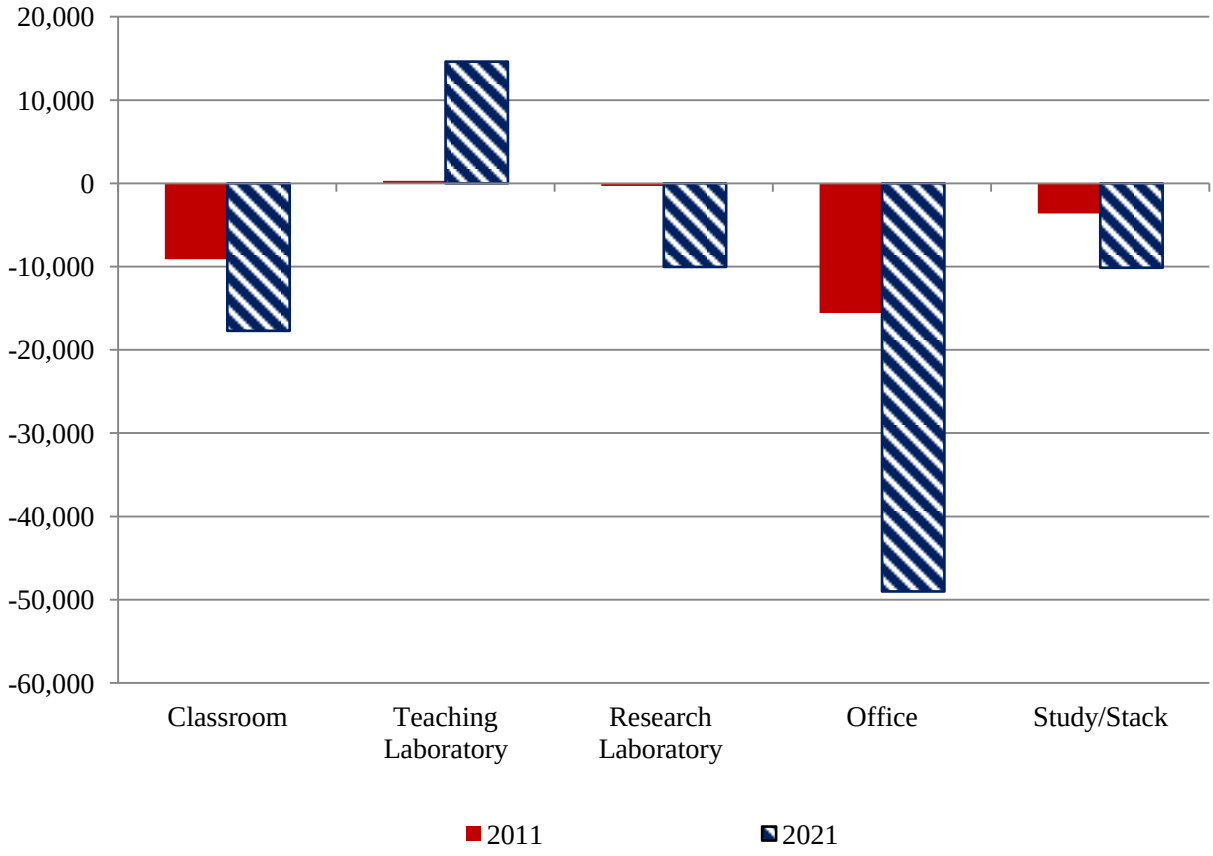
3. Section 13 – UMES – Engineering and Aviation Science Building

   Approve the pre-authorization for the 2015 session.

Agency Performance Measures and Outputs/Population Data

According to the fall 2011 facilities inventory, the University of Maryland Eastern Shore's (UMES) academic space totals 133,324 net assignable square feet (NASF), which includes 40,779 NASF of classroom space; 92,545 NASF of teaching laboratory space; and 122,731 NASF of office space. **Exhibit 1** shows UMES's self-reported space deficiencies in fiscal 2011 and projected deficiencies in fiscal 2021. UMES currently expects to have space shortages in four of the five space categories. The new Engineering and Aviation Science Building (EASB) would provide all five types of academic spaces that UMES needs and assist UMES in meeting expected enrollment growth and expansion of science, technology, engineering, and mathematics (STEM) programs, particularly with programs in aviation and computer science.

Exhibit 1
Academic Space Surpluses/Deficiencies
Net Assignable Square Feet



Source: Four-year Public Colleges and Universities Academinc Space Surplus/Deficit: Fiscal 2011, Projected 2021, Maryland Higher Education Commission

Capital Improvement Program

State-owned Capital Improvement Program
($ in Millions)

Projects	*Prior Auth.*	*2014 Request*	*2015 Est.*	*2016 Est.*	*2017 Est.*	*2018 Est.*	*Beyond CIP*
Engineering and Aviation Science Building	$6.600	$22.695	$59.850	$2.350	$0.000	$0.000	$0.000
Total	**$6.600**	**$22.695**	**$59.850**	**$2.350**	**$0.000**	**$0.000**	**$0.000**

Fund Source	*Prior Auth.*	*2014 Request*	*2015 Est.*	*2016 Est.*	*2017 Est.*	*2018 Est.*	*Beyond CIP*
GO Bonds	$6.600	$22.695	$59.850	$2.350	$0.000	$0.000	$0.000
Total	**$6.600**	**$22.695**	**$59.850**	**$2.350**	**$0.000**	**$0.000**	**$0.000**

Budget Overview

The fiscal 2014 budget programs $22.69 million to complete design and begin construction of EASB at UMES. The fiscal 2013 budget included $3.6 million and the 2012 budget included $3.0 million for preliminary design. The total 2013 *Capital Improvement Program* (CIP) cost for EASB is $91,495,000, which is a decrease of $205,000 from the prior year. When completed, the new EASB facility will provide modern class laboratory and office space for expanding UMES programs in engineering, aviation science, and computer science. The project scope does not include demolishing the existing aviation science building, Tanner Hall, nor removing temporary trailers installed on campus for additional engineering classroom space. Overall, the project was advanced in the 2013 CIP based upon a new project schedule to complete design in late fiscal 2013 and begin construction immediately in fiscal 2014. Unlike the 2012 CIP, no revenue bonds are included in this project, and additional GO bond funds are programmed to make up the difference.

EASB will help improve UMES by creating new teaching, research, and open laboratory space, as well as classroom space. While the current Tanner Hall facility offers about 3,809 NASF in total space, EASB will offer about 30,000 NASF for class laboratory space. EASB also includes space for conference rooms, a library study, media production, a lounge, and central computing services that are all important for improving educational spaces at UMES. EASB will also have about 23,000 NASF for offices and about 12,000 NASF for classrooms.

UMES believes this facility is a strategic investment on the part of the State because this will greatly enhance the university's ability to train air traffic controllers. This highly specialized position requires advanced classroom technology and fulfills a critical role in the aviation industry. UMES believes demands will increase the air traffic controller workforce 13% over the next decade. Additionally, the dedicated computer lab in EASB, an outcome of relocating the computer science department to this facility, will give all UMES students more access to computer services for assignments and research. Finally, many faculty and staff offices are under 100 NASF, which is well below the State's guideline of 166 NASF. Larger offices allow faculty to interact with students in more useful ways. Overall, UMES expects enrollment in aviation science, engineering, and computer science to increase from about 517 in fiscal 2012 to 713 in 2017, due to EASB.

This project is consistent with the University System of Maryland (USM) initiative to increase the number of STEM degrees awarded by 40% by 2020. In order to meet this goal, institutions will need to increase production of STEM degrees by approximately 2,200. USM states that achieving this goal will require an array of targeted strategies. EASB will assist in attracting students to STEM fields and retaining students over the course of their studies.

Operating Budget Impact Statement

Executive's Operating Budget Impact Statement
($ in Millions)

	FY 2014	*FY 2015*	*FY 2016*	*FY 2017*	*FY 2018*
Engineering and Aviation Science Building					
Estimated Operating Cost	$0.000	$0.017	$0.830	$0.838	$0.856
Estimated Staffing	0.000	0.000	4.000	4.000	4.000

According to the 2013 session CIP, EASB is estimated to impact the fiscal 2015 operating budget by $17,000, increasing to $830,000 in fiscal 2016 to account for fuel and utilities, supplies and materials, and amortized equipment. Estimated operating expenses also reflect 4 new positions beginning in fiscal 2016.

Pre-authorizations and De-authorizations

UMES has pre-authorizations in fiscal 2015 and 2016 to continue funding for the new Engineering and Aviation Science Building.

Exhibit 2
Pre-authorizations
Fiscal 2015-2017

Project	2015	2016	2017	Reason
Engineering and Aviation Science Building	$56.850	$0.350	$0.000	To continue construction of the new facility.

Source: Department of Budget and Management, Fiscal 2014 *Capital Improvement Program*

GO Bond Recommended Actions

1. Approve $22.695 million in general obligation bonds for planning and construction of the new Engineering and Aviation Science Building on the campus of the University of Maryland Eastern Shore.

2. Approve the pre-authorization of $56.850 million in general obligation bonds for the 2014 session for the new Engineering and Aviation Science Building on the campus of the University of Maryland Eastern Shore.

3. Approve the pre-authorization of $0.350 million in general obligation bonds for the 2015 session for the new Engineering and Aviation Science Building on the campus of the University of Maryland Eastern Shore.