

Resolution No: 18-1137
Introduced: May 24, 2018
Adopted: May 24, 2018

**COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND**

By: County Council

SUBJECT: Approval of FY 2019-2024 Capital Improvements Program and Approval of and Appropriation for the FY 2019 Capital Budget of Montgomery College

Background

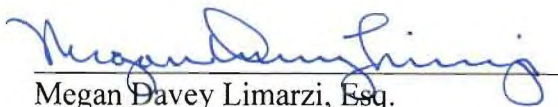
1. As required by the Education Article, Section 16-301 of the Maryland Code, the Montgomery College Board of Trustees sent to the County Executive and County Council a 6-year Capital Improvements Program (CIP) and an FY 2019 Capital Budget for Montgomery College.
2. Section 302 of the County Charter requires the Executive to send to the County Council by January 15 in each even-numbered calendar year a 6-year CIP, which the Executive did on January 16, 2018 for the 6-year period FY 2019-2024 (January 15, 2018 fell on a holiday). Section 302 requires the affirmative vote of at least 5 Councilmembers to approve or modify the Executive's Recommended CIP. After the Council approves a CIP, Section 302 permits the Council to amend it at any time with the affirmative vote of at least 6 Councilmembers
3. Section 303 of the Charter requires the Executive to send to the Council by January 15 in each year a recommended Capital Budget, which the Executive did on January 16, 2018 for FY 2019 (January 15, 2018 fell on a holiday).
5. As required by Section 304 of the Charter, the Council held public hearings on the Capital Budget for FY 2019 and on the Recommended CIP for FY 2019-2024 on February 6 and 7, 2018.

Action

The County Council for Montgomery County, Maryland approves the following resolution:

1. For FY 2019, the Council approves the Capital Budget for Montgomery College and appropriates the amounts by project which are shown in Part I.
2. The Council reappropriates the appropriations made in prior years for all capital projects:
 - a) except as specifically reflected elsewhere in this resolution;
 - b) in the amounts and for the purposes specified in the Approved CIP for FY 2019-2024; and
 - c) to the extent that those appropriations are not expended or encumbered.
3. The Council approves the projects for the FY 2019-2024 Capital Improvements Program as presented in the Board of Trustee's requested FY 2019 Capital Budget and FY 2019-2024 Capital Improvements Program, dated November 13, 2017, with the exceptions which are attached in Part II. Those projects are approved as modified.
4. The Council approves the close out of projects in Part III.
5. Any revenue which exceeds the amount estimated to be received from revenue sources other than County bonds must reduce the amount of bonds to be sold by the amount of the excess.
6. If a sign recognizing the contribution of any Federal, State, or local government or agency is displayed at any project for which funds are appropriated in this resolution, as a condition of spending those funds each sign must also expressly recognize the contribution of the County and the County's taxpayers.

This is a correct copy of Council action.


Megan Davey Limarzi, Esq.
Clerk of the Council

**PART I: FY19 Capital Budget for
Montgomery College**

The appropriations for FY19 in this Part are made to implement the projects in the Capital Improvements Program for FY19 - FY24.

Project Name (Project Number)	FY19 Appropriation	Cumulative Appropriation	Total Appropriation
ADA Compliance: College (P936660)	50,000	1,403,000	1,453,000
Capital Renewal: College (P096600)	2,000,000	14,888,000	16,888,000
Collegewide Physical Education Renovations (P661602)	1,500,000	6,500,000	8,000,000
Collegewide Road/Parking Lot Repairs and Replacements (P661801)	500,000	500,000	1,000,000
Elevator Modernization: College (P056608)	906,000	3,974,000	4,880,000
Energy Conservation: College (P816611)	125,000	4,968,000	5,093,000
Facility Planning: College (P886686)	270,000	5,777,000	6,047,000
Germantown Science & Applied Studies Phase 1-Renov (P136600)	267,000	40,800,000	41,067,000
Information Technology: College (P856509)	5,877,000	127,947,000	133,824,000
Instructional Furniture and Equipment: College (P096601)	270,000	2,640,000	2,910,000
Network Infrastructure and Server Operations (P076619)	3,400,000	16,917,000	20,317,000
Planned Lifecycle Asset Replacement: College (P926659)	4,000,000	52,033,000	56,033,000
Planning, Design & Construction (P906605)	1,796,000	28,154,000	29,950,000
Rockville Student Services Center (P076604)	9,475,000	64,085,000	73,560,000
Roof Replacement: College (P876664)	2,000,000	8,065,000	10,065,000
Site Improvements: College (P076601)	700,000	16,634,000	17,334,000
Student Learning Support Systems (P076617)	1,000,000	13,220,000	14,220,000
Total - Montgomery College	34,136,000	408,505,000	442,641,000

PART II: Revised Projects

The approved projects described in this section were revised from, or were not included among, the projects as requested by the agency in the Board of Trustees FY19 Capital Budget and FY19 - FY24 Capital Improvements Program. These projects are approved as modified.

Project Number	Project Name
P056603	Bioscience Education Center
P661901	Collegewide Library Renovations
P046602	Computer Science Alterations
P056608	Elevator Modernization: College
P136600	Germantown Science & Applied Studies Phase 1-Renov
P076612	Germantown Student Services Center
P856509	Information Technology: College
P076619	Network Infrastructure and Server Operations
P926659	Planned Lifecycle Asset Replacement: College
P906605	Planning, Design & Construction
P076604	Rockville Student Services Center
P876664	Roof Replacement: College
P076622	Science West Building Renovation
P076617	Student Learning Support Systems
P076607	Takoma Park/Silver Spring Math & Science Center



Bioscience Education Center

(P056603)

Category Montgomery College **Date Last Modified** 05/23/18
SubCategory Higher Education **Administering Agency** Montgomery College
Planning Area Germantown and Vicinity **Status** Under Construction

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	8,039	7,959	80	-	-	-	-	-	-	-	-
Construction	74,221	74,161	60	-	-	-	-	-	-	-	-
Other	10,067	9,375	692	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	92,327	91,495	832	-	-	-	-	-	-	-	-

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
FUNDING SCHEDULE (\$000s)											
G.O. Bonds	50,553	50,544	9	-	-	-	-	-	-	-	-
State Aid	41,083	40,260	823	-	-	-	-	-	-	-	-
PAYGO	691	691	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	92,327	91,495	832	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation / Encumbrances											
Cumulative Appropriation			93,140								
Expenditure / Encumbrances			91,499								
Unencumbered Balance			1,641								

PROJECT DESCRIPTION

This project provides for the design and construction of a new biotechnology and science building (approx. 145,139 gsf) on the Germantown Campus, and for a new Germantown campus access road. This building will support Campus space needs and provide for up-to-date biotechnology and science laboratories in a modern facility that complies with current requirements. This new building is part of an overall plan to provide a Campus instructional focus in support of the biotechnology industry. This project also funds the design and construction of a new access road to provide an additional means of entrance and egress as student enrollment grows, and to better address emergency situations that may necessitate a campus evacuation. The current primary gateway and entrance to the campus is located on MD 118. The Germantown Access Road potentially will change from a two lane road to a four lane road to accommodate the additional traffic generated by the Germantown business park. The Council has approved an alignment for the access road consistent with the alignment referred to as West Alternative 2. In addition, the College is working with the County to develop an adjacent technology business park on the Germantown Campus as part of the up-County technology corridor. This new building and the biotechnology program is part of an overall strategy to supply a biotechnology workforce for Montgomery County and the State of Maryland. In addition to housing the biology, chemistry and biotechnology programs, this new building will have a meeting center providing the College and outside groups with opportunities to gather in support of scientific education.

ESTIMATED SCHEDULE

Project construction was completed in the fall of 2014

COST CHANGE

Funds no longer needed in the project of \$813,000 in G.O. Bonds were reallocated to Roof Replacement: College (#P876664)

PROJECT JUSTIFICATION

Under the application of the State space guidelines, the enrollment growth on the Germantown Campus has resulted in a significant instructional space deficit. The Germantown Campus has a 2022 projected instructional space deficit of 132,252 NASF and a total space deficit anticipated to be 227,300 NASF. In addition, the chemistry and biology classrooms and labs are currently located in outdated facilities; these will be updated under the Germantown Science and Applied Studies Phase 1 Renovation project. The new Bioscience Education building will provide a modern facility for up to date biotechnology instruction along with providing much needed additional space. The Germantown Campus accommodates 7,739 students and 494 full time, and part time faculty and staff (Fall 2012). Related studies include the Collegewide Facilities Master Plan Update (1/13), the Germantown Bioscience Education Center Facility Program (5/04), a Collegewide Facilities Condition Assessment Update (12/13), and the Bioscience Education Center Program Verification Report, (9/07).

OTHER

FY19 appropriation: -\$813,000. Additional funding Sources: Paygo, and State Aid. State share of the project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The following fund transfers have been made to this project: \$4,500,000 from the Rockville Science Center project (No. P036600) (BOT Resol. #12-01-07, 1/30/12); \$555,000 from the Health Sciences Expansion project (#P096603), \$300,000 from the Rockville Parking Lot and Tennis Court Relocation project (#P096602), and \$200,000 from the Energy

Conservation project (#P816611)(BOT Resol. #12-06-036, 6/11/12). The following fund transfers have been made from this project: \$700,000 in G.O. Bonds to the Planning, Design, and Construction project (#P906605) (BOT Resol. #16-04-051, 4/18/16);. In addition, \$813,000 in G.O. Bonds were reallocated to the Roof Replacement: College project (#P876664).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Energy Conservation: College (CIP No. P816611), Facility Planning: College (CIP No. P886686), Germantown Observation Drive Reconstruction (CIP No. P096604), Germantown Science and Applied Studies Phase I Renovation (CIP No. P136600)



Collegewide Library Renovations (P661901)

Category	Montgomery College	Date Last Modified	05/15/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	1,580	-	-	690	-	400	-	-	-	290	890
Construction	12,385	-	-	555	-	-	-	-	55	500	11,830
Other	5,305	-	-	3,915	-	-	-	-	-	3,915	1,390
TOTAL EXPENDITURES	19,270	-	-	5,160	-	400	-	-	55	4,705	14,110

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	19,270	-	-	5,160	-	400	-	-	55	4,705	14,110
TOTAL FUNDING SOURCES	19,270	-	-	5,160	-	400	-	-	55	4,705	14,110

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request				-	Year First Appropriation						
Appropriation FY 20 Request				400	Last FY's Cost Estimate						
Cumulative Appropriation				-							
Expenditure / Encumbrances				-							
Unencumbered Balance				-							

PROJECT DESCRIPTION

This project provides funding for the renovation of the libraries on Montgomery College's three campuses, specifically the Germantown Humanities and Social Sciences Building, the Rockville Macklin Tower Building, and the Takoma Park/Silver Spring Resource Center. An architecture firm has developed conceptual designs for the three campus libraries, and has identified improvements required to support organizational and service changes, and to modernize the libraries. The main library floors will be hubs of academic life at Montgomery College: dynamic spaces that will be student-centered, technology and service-driven, and will foster innovation. The upper floors will provide students with comfortable and quiet study spaces and smaller, curated collections to support their academic and career goals. Additional goals of this project is to meet the variety of student needs including group study, individual study, and silent study.

LOCATION

College-wide

ESTIMATED SCHEDULE

Design for the renovation of the Takoma Park/Silver Spring campus library is to begin in FY20. Construction will start in FY21 pending the availability of funds. Renovations of the other campus libraries is expected to follow.

PROJECT JUSTIFICATION

Both the Germantown Humanities and Social Sciences Building, and Takoma Park/Silver Spring Resource Center were constructed in 1978, and are 39 years old. The Rockville Macklin Tower Building was constructed in 1971 and is 46 years old. All three of these buildings are outdated, space and service configuration is insufficient, employee workspaces are inadequate to promote collaboration with colleagues, as well as, support student success. In FY16, the Montgomery College Libraries had nearly 670,000 visitors, and ethnographic studies have shown that libraries are one of the places at Montgomery College where students can escape from work and family obligations to get homework and studying done. In addition, Montgomery College's libraries provide students access to technology to be successful in their coursework. In FY16, the Montgomery College library's computers, laptops, and tablets were used approximately 200,000 times by nearly 18,000 unique users. Providing computers, laptops, tablets, software, scanners, internet, and accessible software programs improves college affordability for students who wouldn't otherwise be able to afford those tools. The Montgomery College Libraries increasingly support educational excellence by embedding librarians and information literacy into classes with 7,600 students taught. Other relevant studies and plans include the Libraries Master Plan (2015), Montgomery College Libraries' Ethnographic Studies 2013-2016 (2016), Collegewide Master Plan 2013-2023 (2/16), Libraries Planning Study (6/17), and Libraries Planning Study Germantown Addendum (9/17).

FISCAL NOTE

The College is able to fund design for renovation of the Takoma Park/Silver Spring library in FY20 by reallocating \$400,000 from the Rockville Student Services project (#P076604). Additional funds for construction of that library as well as design and construction of the Rockville and Germantown campus libraries will be appropriated as affordability allows. Currently, the capital budget programs \$55,000 in G.O. Bonds in FY23 and \$4,705,000 in G.O. Bonds in FY24. \$400,000 were reallocated to this project from the Rockville Student Services project (#P076604).

COORDINATION



Computer Science Alterations (P046602)

Category	Montgomery College	Date Last Modified	05/23/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Final Design Stage

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	550	296	254	-	-	-	-	-	-	-
Construction	494	481	13	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,044	777	267	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

G.O. Bonds	1,044	777	267	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	1,044	777	267	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	-	Year First Appropriation	FY01
Appropriation FY 20 Request	-	Last FY's Cost Estimate	1,159
Cumulative Appropriation	1,044		
Expenditure / Encumbrances	777		
Unencumbered Balance	267		

PROJECT DESCRIPTION

This project provides funding for (1) the renovation of the upper floor of the Computer Science Building to create new classrooms, a telecommunications room and offices, and (2) a 438-space surface parking lot at the Carver site across from the Rockville Campus. The Computer Science building is located on the Montgomery College - Rockville Campus at 51 Maninakee Street, Rockville, MD 20850.

COST CHANGE

The approved budget reallocates \$76,000 (G.O. Bonds) to the Germantown Science and Applied Studies Renovation project (P136600) to cover additional costs associated with unforeseen conditions. Funds no longer needed in the project of \$191,000 in G.O. Bonds were reallocated to the Elevator Modernization: College project (#P056608).

PROJECT JUSTIFICATION

The Rockville Campus has a current (Fall 2014) instructional space deficit of 68,975 net square feet and a total space deficit of 242,373 net square feet. The College is experiencing ongoing shortage of classroom space. The network operating center (NOC), previously housed in the Computer Science Building, has relocated to the Cafritz Foundation Arts Center on the Takoma Park/Silver Spring Campus. The relocation of the NOC has freed up space in the Computer Science Building which is being converted to classrooms and offices. In addition to the shortage of classroom space, there is a similar shortage of parking spaces due to enrollment growth. The 438 space surface parking lot is complete, was opened for Fall 2006 classes, and will help alleviate some of that shortage. Related studies included the Collegewide Facilities Condition Assessment Update (12/13), and the Collegewide Master Plan 2013-2023 (2/16).

OTHER

FY 19 Appropriation: -\$267,000 G.O. Bonds. Renovation of the Computer Science Building is coordinated with the relocation of the NOC from the Computer Science Building on the Rockville Campus to the Cafritz Arts Center on the Takoma Park/Silver Spring Campus. As of FY10, the Takoma Park/Silver Spring Campus NOC is fully operational. The following fund transfer has been made from this project: \$115,000 to the Germantown Science and Applied Studies Renovation project (P136600) (BOT Resol.#17-11-121 ,11/13/17). In addition, \$76,000 was reallocated to the Germantown Science and Applied Studies Renovation project by Council action in FY19; and \$191,000 was reallocated to Elevator Modernization: College (#P056608) by Council action in FY19.

COORDINATION

Cafritz Foundation Arts Center (CIP No. P056604), Network Operating Center (CIP No. P076618)



Elevator Modernization: College (P056608)

Category	Montgomery College	Date Last Modified	05/22/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	653	539	14	100	100	-	-	-	-	-	-
Construction	5,227	2,942	479	1,806	806	200	200	200	200	200	-
TOTAL EXPENDITURES	5,880	3,481	493	1,906	906	200	200	200	200	200	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	5,880	3,481	493	1,906	906	200	200	200	200	200	-
TOTAL FUNDING SOURCES	5,880	3,481	493	1,906	906	200	200	200	200	200	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request			906	Year First Appropriation							FY03
Appropriation FY 20 Request			200	Last FY's Cost Estimate							4,174
Cumulative Appropriation			3,974								
Expenditure / Encumbrances			3,481								
Unencumbered Balance			493								

PROJECT DESCRIPTION

This project provides funding for the modernization and/or replacement of existing elevators on all three campuses. Specifically, this project provides for an additional elevator for the High Technology Building on the Germantown Campus.

COST CHANGE

FY19 is increased to cover the full cost of the new elevator project, \$706,000 in G.O. Bonds of which is supported with funds reallocated from project balances elsewhere in the College capital budget: \$191,000 in G.O. Bonds from Computer Science Alterations (#P046602), \$68,000 in G.O. Bonds from Science West Building Renovation (#P076622), and \$447,000 in G.O. Bonds from Rockville Student Services (#P076604). Additional increases are due to the addition of FY23 and FY24.

PROJECT JUSTIFICATION

Many elevator systems at the College are inefficient, outdated and beyond continued economic repair. While the College's maintenance program has kept elevators operational, spare parts are not readily available from maintenance providers for many of the older pieces of elevator equipment. This results in extended down time, high maintenance costs, higher energy consumption, and the lack of current car safety devices. This project will modernize elevators to improve overall performance, safety, reliability and energy conservation, and to achieve code compliance. Furthermore, some buildings lack elevators or have elevators of inadequate size requiring the installation of new elevators to increase accessibility and capacity. Related studies include the Collegewide Facilities Condition Assessment Update (12/13), a Collegewide Elevator Study (4/05), the Collegewide Master Plan 2013-2023 (2/16), and the Takoma Park/Silver Spring Elevator Update (9/09).

OTHER

FY19 Appropriation: \$906,000 (G.O. Bonds). FY20 Appropriation: \$200,000 (G.O. Bonds).

FISCAL NOTE

The following reallocations were made to this project by Council action in FY19: \$191,000 in G.O. Bonds from Computer Science Alterations (#P046602), \$68,000 in G.O. Bonds from Science West Building Renovation (#P076622), and \$447,000 in G.O. Bonds from Rockville Student Services (#P076604).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

This project is coordinated with the scheduled building renovations on the Rockville, Takoma Park/Silver Spring and Germantown Campuses., Phase 4 - Takoma Park/Silver Spring Elevator Study, Site Improvements: College (CIP No. P076601)



Germantown Science & Applied Studies Phase 1-Renov (P136600)

Category	Montgomery College	Date Last Modified	05/14/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Germantown and Vicinity	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	4,529	4,050	479	-	-	-	-	-	-	-	-
Construction	31,222	30,777	178	267	267	-	-	-	-	-	-
Other	5,316	-	5,116	200	100	100	-	-	-	-	-
TOTAL EXPENDITURES	41,067	34,827	5,773	467	367	100	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	21,144	17,822	3,146	176	126	50	-	-	-	-	-
State Aid	19,923	17,005	2,627	291	241	50	-	-	-	-	-
TOTAL FUNDING SOURCES	41,067	34,827	5,773	467	367	100	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)					
Appropriation FY 19 Request		267		Year First Appropriation	FY13
Appropriation FY 20 Request		-		Last FY's Cost Estimate	40,685
Cumulative Appropriation		40,800			
Expenditure / Encumbrances		34,943			
Unencumbered Balance		5,857			

PROJECT DESCRIPTION

This project provides for the realignment/renovation of space in the Science and Applied Studies building (65,015 GSF) on the Germantown Campus in accordance with the College's Facilities Master Plan and the building educational space specifications. The renovated building will house open class labs, classrooms, offices and support space related to the physics, engineering, and mathematics departments. The Science and Applied Studies Renovation will occur in two phases. The first phase involves the renovation of the second floor, and a 29,330 GSF building addition, to support the Physics, Engineering, and Mathematics disciplines. There will be vacant space in a portion of the building when various departments move to the Bioscience Education Center, which makes it necessary to renovate this building to support new disciplines. The current building layout is inappropriate for the Physics, Engineering, and Mathematics departments, which makes it necessary to renovate laboratory spaces, classrooms, and faculty and staff offices. This building also has outdated laboratory equipment, which does not properly support the new functions, and technological changes in teaching methods. Programmatic changes are necessary to prepare this building for these uses. The second phase of this project will deal with the renovation of the first floor. Overall growth at the Germantown Campus in combination with the transition to lab instruction for mathematics and engineering expansion has created the demand for additional academic space. Renovation for these disciplines co-locates them near the Bioscience Education Center, creating good programmatic synergy on the campus. Renovation of this facility is contingent on completion of the Bioscience Education Center. Based on student interest, enrollment trends, existing and projected County and State workforce needs, and the teaching and learning strategies, including the final report of The Governor's Science Technology Engineering Mathematics Task Force, Investing in STEM to Secure Maryland's Future, the Germantown Campus will be well positioned to meet the needs of its students and the region. Design funding for this project was appropriated in FY13, and construction funding was appropriated in FY16.

ESTIMATED SCHEDULE

Project construction is scheduled to be completed in the winter of 2019.

COST CHANGE

The approved budget reallocates \$76,000 (G.O. bonds) from the Computer Science Alterations project (P046602) and adds \$191,000 in State matching funds to cover additional costs associated with unforeseen conditions. (The College's Board of Trustees previously transferred \$115,000 in G.O. Bonds from Computer Science Alterations to this project [BOT Resol.#17-11-121, 11/13/17], making to the total shift from Computer Science Alterations \$191,000 in County G.O. Bonds.)

PROJECT JUSTIFICATION

Under the application of the State space guidelines, the enrollment growth on the Germantown Campus has resulted in a significant instructional space deficit. The Germantown Campus has a 2026 projected instructional space deficit of 80,763 NASF and a total space deficit anticipated to be 200,880 NASF. In addition, this project will position the College to address workforce shortages in the Science, Technology, Engineering, and Mathematics fields. This project will impact local and Maryland workforce shortages through educating students to fill technical jobs. Relevant studies include the Collegewide Facilities Master Plan Update (1/16), the Renovation/Addition to Sciences & Applied Studies Building at Montgomery College Germantown Campus, Part 1, Part 2 (3/11), and the Collegewide Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: \$76,000 (G.O. Bonds) and \$191,000 State Aid. Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project. The construction costs in the expenditure schedule (\$30,840,000) include: site improvement costs (\$2,390,000), building construction costs (\$28,450,000). The building construction cost per gross square foot equals \$438 (\$28,450,000/65,015). The following fund transfer has been made to this project: \$115,000 from the Computer Science Alterations project (P046602) (BOT Resol.#17-11-121 ,11/13/17).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Facility Planning: College (No. P886686), Bioscience Education Center (No. P056603), Energy Conservation: College (No. P816611), PLAR: College (No. P926659)



Germantown Student Services Center (P076612)

Category Montgomery College **Date Last Modified** 05/17/18
SubCategory Higher Education **Administering Agency** Montgomery College
Planning Area Germantown and Vicinity **Status** Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	9,154	-	-	9,154	-	-	-	6,052	3,102	-	-
Construction	45,695	-	-	22,847	-	-	-	-	-	22,847	22,848
Other	4,730	-	-	-	-	-	-	-	-	-	4,730
TOTAL EXPENDITURES	59,579	-	-	32,001	-	-	-	6,052	3,102	22,847	27,578

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	29,790	-	-	16,001	-	-	-	3,026	1,551	11,424	13,789
State Aid	29,789	-	-	16,000	-	-	-	3,026	1,551	11,423	13,789
TOTAL FUNDING SOURCES	59,579	-	-	32,001	-	-	-	6,052	3,102	22,847	27,578

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request				-	Year First Appropriation						
Appropriation FY 20 Request				-	Last FY's Cost Estimate						
Cumulative Appropriation				-	59,416						
Expenditure / Encumbrances				-							
Unencumbered Balance				-							

PROJECT DESCRIPTION

This project provides funds for the design and construction of a new student resource center (approximately 95,000 gross square feet) to support both study and student services as outlined in the Germantown Campus Facilities Master Plan, 2013-2023 (2/16). This project provides a comprehensive one-stop shop and brings together the bookstore and Mailroom from the Humanities and Social Sciences Building; Admissions, Student Life and Security from the Science and Applied Studies Building, creating much more space for study and student development. This building will also house the Provost's Office, as well as media and academic computing support functions.

COST CHANGE

The budget assumes the split-funding of construction between FY24 and FY25 (in the Beyond Six-year Period column).

PROJECT JUSTIFICATION

Supported in this facility are the media resources and academic computing functions, including the computer training lab. The advantage for students is the concentration of support resources in a single location. For the campus, space is made available in other buildings that will allow more growth in office and instructional space before another academic building is needed on campus. Under the application of State space guidelines, the enrollment growth on the Germantown campus has resulted in a significant space deficit. The Germantown campus has a fall 2016 space deficit of 96,648 NSF, and a 2026 projected space deficit of 200,880. Relevant studies include the Collegewide Facilities Master Plan 2013-2023 (2/16).

OTHER

Funding Sources: G.O. Bonds and State Aid. State share of project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$45,695,000) include: site improvement costs (\$8,862,000), building construction costs (\$36,833,000). The building construction cost per gross square foot equals \$388 (\$36,833,000/95,000).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Sciences and Applied Studies Building Alterations (CIP# P056605)



Information Technology: College (P856509)

Category	Montgomery College	Date Last Modified	05/14/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	4,247	3,908	339	-	-	-	-	-	-	-
Construction	22,025	18,952	73	3,000	500	500	500	500	500	-
Other	150,052	93,016	9,759	47,277	7,277	8,000	8,000	8,000	8,000	8,000
TOTAL EXPENDITURES	176,324	115,876	10,171	50,277	7,777	8,500	8,500	8,500	8,500	8,500

FUNDING SCHEDULE (\$000s)

Current Revenue: General	111,764	51,316	10,171	50,277	7,777	8,500	8,500	8,500	8,500	8,500
Recodation Tax	57,916	57,916	-	-	-	-	-	-	-	-
G.O. Bonds	4,603	4,603	-	-	-	-	-	-	-	-
PAYGO	2,041	2,041	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	176,324	115,876	10,171	50,277	7,777	8,500	8,500	8,500	8,500	8,500

OPERATING BUDGET IMPACT (\$000s)

FULL TIME EQUIVALENT (FTE)					4	4	4	4	4	4
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APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	5,877	Year First Appropriation	FY85
Appropriation FY 20 Request	8,500	Last FY's Cost Estimate	161,947
Cumulative Appropriation	127,947		
Expenditure / Encumbrances	119,299		
Unencumbered Balance	8,648		

PROJECT DESCRIPTION

This project provides for the design, development, installation/construction, and support of College Information Technology (IT) systems including enterprise-wide data, voice, and video applications; cybersecurity; cloud-based software services; and other related software applications used for administrative and academic support, associated cabling systems, equipment closets, and IT space construction; and the replacement/upgrade of IT equipment to meet current requirements. The project includes planning, installation, and furnishing of audio/visual and computing technology in classrooms, labs, and offices throughout three campuses and multiple workforce development centers. These systems support and enhance the College's mission, its instructional programs, and student services including counseling, admissions, registration, etc. They also meet administrative computing requirements for finance, human resources, institutional advancement, workforce development and continuing education, and are implemented in accordance with collegewide strategic planning efforts. The Office of Information Technology (OIT) determines and recommends the hardware, software, and services to be purchased. Four technical staff positions are funded by this project.

COST CHANGE

The FY18 Savings Plan reduced FY18 funding and expenditures by \$1,900,000 in Current Revenue: General. FY19 reduction of \$723,000 is due to County affordability constraints. Increases in FY23 and FY24 due to addition of years to the six-year period.

PROJECT JUSTIFICATION

To meet current and projected needs, and to remain current with changing technical standards and expectations for data, video, and voice communications, the College plans and installs IT, telecommunications, audio/visual, and instructional systems at each campus, the central administration building, and all remote instructional sites. The new systems allow replacement of legacy systems for data and video applications; provide for updated networking capabilities; provide necessary security and monitoring capabilities; establish learning centers in classrooms, labs, and for distributed instruction; and allow expanded opportunities for linking with external information technology services. State-of-the-market hardware and software capabilities and cloud services are required to attract and serve students, faculty and staff, as well as to serve the business community by upgrading work force technology skills and providing a base for continued economic development in the county. Information technology directly enables the College's mission and is used to facilitate student success; to effectively and efficiently operate the College; and to support the College's growth, development, and community initiatives.

OTHER

FY19 Appropriation: \$5,877,000 (Current Revenue: General). FY20 Appropriation: \$8,500,000 (Current Revenue: General). The following fund transfers have been made from this project: \$1,300,000 to the Takoma Park Campus Expansion project (CIP No. P996662) (BOT Resol. #07-01-005, 1/16/2007); \$300,000 to the Student Learning Support Systems project (CIP No. P076617); and \$2,500,000 to the Network Operating Center project (#P076618)(BOT Resol. #12-06-037, 6/11/12). The following fund transfers have been made to this project: \$111,000 from the Planning, Design and Construction project (CIP No. P906605), and

\$25,000 from the Facilities Planning: College project (CIP No. P886886) to this project (BOT Resol. #91-56, 5/20/1991); the project appropriation was reduced by \$559,000 in FY92.

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

MC2020 Strategic Plan, Academic Master Plan (2015), Facilities Master Plan 2013-2023 (2/16), Information Technology Master Plan, Student Affairs Master Plan (draft), and campus building renovation projects. Expenditures are made in alignment with the priorities and guidelines establish by these documents.



Network Infrastructure and Server Operations (P076619)

Category	Montgomery College	Date Last Modified	05/22/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	5,704	4,329	295	1,080	180	180	180	180	180	180	-
Construction	1,974	1,303	71	600	100	100	100	100	100	100	-
Other	31,639	8,387	2,532	20,720	3,120	3,520	3,520	3,520	3,520	3,520	-
TOTAL EXPENDITURES	39,317	14,019	2,898	22,400	3,400	3,800	3,800	3,800	3,800	3,800	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	37,897	12,599	2,898	22,400	3,400	3,800	3,800	3,800	3,800	3,800	-
Recordation Tax	1,420	1,420	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	39,317	14,019	2,898	22,400	3,400	3,800	3,800	3,800	3,800	3,800	-

OPERATING BUDGET IMPACT (\$000s)											
FULL TIME EQUIVALENT (FTE)					6	6	6	6	6	6	6

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request			3,400		Year First Appropriation						FY07
Appropriation FY 20 Request			3,800		Last FY's Cost Estimate						24,117
Cumulative Appropriation			16,917								
Expenditure / Encumbrances			14,507								
Unencumbered Balance			2,410								

PROJECT DESCRIPTION

This project supports the ongoing installation and maintenance of the information technology (IT) network infrastructure throughout all Montgomery College facilities, as well as on-premise server operations for applications not suitable for cloud computing. The network-related infrastructure includes cable distribution systems (conduit, fiber optics, wiring); equipment such as routers, switches, wireless access points, firewalls, intrusion detection and prevention devices; network management systems, specialized technology tools, monitoring systems, and diagnostic equipment; and remote access technologies. Also included are telephone systems, emergency notification systems, building management systems, and video security systems. The scope of the project includes the associated electrical, environmental, and backup systems needed to ensure the reliable operation of all equipment. On-premise server operations are supported through the maintenance of a primary data center on the Takoma Park/Silver Spring (TP/SS) campus, and a backup data center on the Rockville campus. Associated with the TP/SS data center is the College's Network Operating Center (NOC), where staff maintain server and network equipment and provide 24/7 monitoring of all College IT systems and services to ensure proper functioning and performance. This includes instructional and administrative applications and all network and Internet-related services used in support of both credit and non-credit programs. This project funds six positions. Note: The Network Operating Center/Datacenter project's (P076618) FY19 and beyond funding requests and work years have been added to this project. In addition, the project name has changed from Network Infrastructure Support Systems to Network Infrastructure and Server Operations.

COST CHANGE

Increase is due to the addition of FY23 and FY24, partially offset by a FY19 reduction of \$400,000 due to County affordability constraints.

PROJECT JUSTIFICATION

The College networks used for all forms of data, voice, video, and machine communication must be maintained and upgraded continuously to ensure no College location is without the necessary technology capabilities and support. This requires planned replacement and upgrades as technology evolves. As faculty continue to develop more learning programs and methods to meet the increased expectations of students, the technology needs also evolve and change. Without meeting the expectations and requirements developed in the various College strategic and master planning documents, the College will fall behind in its ability to provide needed technology at the appropriate time. State-of-the-market hardware and software capabilities and cloud services are required to attract and serve students, faculty and staff, as well as to serve the business community by upgrading work force technology skills and providing a base for continued economic development in the county. Information technology directly enables the College's mission and is used to facilitate student success; to effectively and efficiently operate the College; and to support the College's growth, development, and community initiatives.

OTHER

FY19 Appropriation: \$3,400,000 (Current Revenue: General). FY20 Appropriation: \$3,800,000 (Current Revenue: General). The following fund transfers/reductions have occurred with this project: By County Council Resolution No. 16-1261, the cumulative appropriation was reduced by \$533,000 (Current

Revenue: General) as part of the FY10 savings plan; \$800,000 to the Network Operating Center project (#P076618)(BOT Resol. #12-06-037,6/11/12).

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

MC2020 Strategic Plan, Academic Master Plan (2015), Facilities Master Plan 2013-2023 (2/16), Information Technology Master Plan, Student Affairs Master Plan (draft), and campus building renovation projects. Expenditures are made in alignment with the priorities and guidelines establish by these documents.



Planned Lifecycle Asset Replacement: College (P926659)

Category	Montgomery College	Date Last Modified	03/23/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	8,313	4,782	1,131	2,400	400	400	400	400	400	400	-
Construction	67,410	40,740	5,070	21,600	3,600	3,600	3,600	3,600	3,600	3,600	-
Other	310	294	16	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	76,033	45,816	6,217	24,000	4,000	4,000	4,000	4,000	4,000	4,000	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	74,093	43,876	6,217	24,000	4,000	4,000	4,000	4,000	4,000	4,000	-
Current Revenue: General	1,940	1,940	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	76,033	45,816	6,217	24,000	4,000	4,000	4,000	4,000	4,000	4,000	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request			4,000	Year First Appropriation							FY93
Appropriation FY 20 Request			4,000	Last FY's Cost Estimate							66,172
Cumulative Appropriation			52,033								
Expenditure / Encumbrances			45,926								
Unencumbered Balance			6,107								

PROJECT DESCRIPTION

This project provides funding for a comprehensive lifecycle renewal and replacement program to protect the investment in College facilities and equipment and to meet current safety and environmental requirements. Funding also provides for project management contract services. This collegewide project is targeted at deteriorating facilities and deferred maintenance of major building systems. This project includes: (1) HVAC system renovation/replacement; (2) major mechanical/plumbing equipment renovation/replacement; (3) interior and exterior lighting system renovation/replacements; (4) electrical service/switchgear renovation/replacement; (5) building structural and exterior envelope refurbishment; (6) asbestos removals not tied to building renovations; (7) major carpet replacement; (8) underground petroleum tank upgrades; and (9) site utility, and site infrastructure replacement/improvements. Note: The Life Safety Systems project, (CIP No. P046601), has been merged into this project. This project also provides design and construction funding for the correction of life safety and fire code deficiencies identified in the Collegewide Facilities Condition Audit. The scope of this project includes the installation and/or replacement of fire alarm systems, fire sprinkler systems, smoke control systems, emergency power systems, emergency lighting systems, public address systems, and similar equipment and operations.

COST CHANGE

FY19 increases by \$1,861,000 in G.O. Bonds by transferring available funds from Science West Building Renovation (#P076622).

PROJECT JUSTIFICATION

In November 2007 (December 2013 update), the College updated a comprehensive building system/equipment assessment, including site utilities and improvements, that identified deficiencies, prioritized replacements and upgrades, and provided the framework for implementing a systematic capital renewal program to complement on-going preventive maintenance efforts. The College continues to have a significant backlog of major building systems and equipment renovations and/or replacements due to the age of the Campuses and deferral of major equipment replacement. Key components of the HVAC, mechanical and electrical systems are outdated, energy inefficient, and costly to continue to repair. The renovation and/or replacement of major building systems, building components and equipment, and site improvements will significantly extend the useful life of the College's buildings and correct safety and environmental problems. The Collegewide Facilities Condition Assessment Update (12/13) identified a \$85 million deferred maintenance backlog for the three campuses. If additional financial resources are not directed at this problem, facilities will continue to deteriorate leading to higher cost renovations or building replacements. The Collegewide Facilities Condition Audit identified various life safety concerns on all three campuses. This project allows the College to address the concerns, replacing and/or installing appropriate life safety or fire code measures, and ensuring compliance with applicable life safety, fire, and building codes. Other relevant plans and studies include the Collegewide Master Plan 2013-2023 (2/16), and the County Council Report of the Infrastructure Maintenance Task Force (3/16).

OTHER

FY19 Appropriation: \$4,000,000 (G.O. Bonds). FY20 Appropriation: \$4,000,000 (G.O. Bonds). The following fund transfers have been made from this project: \$47,685 to Takoma Park Child Care Center (CIP No. P946657) (BOT Resol. #93-106, #94-26 & #941-28); \$185,000 to Rockville Surge Building (CIP No. P966665) (BOT Resol. #11-2291 - 1/21/97); \$7,000 to Planning, Design & Construction (CIP No. P906605) (BOT Resol. #01-153); \$91,175 to the Art Building Renovation Project (CIP No. P906608) (BOT Resol. # 06-09-106 - 9/18/06); and \$250,000 to the Takoma Park Expansion Project (CIP No. P996662) (BOT Resol. #07-01-005 - 1/16/07). The following fund transfers have been made into this project: \$15,000 from Central Plant Distribution System (CIP No.

P886676) (BOT Resol. #98-82 - 6/15/98), \$25,000 from Clean Air Act (CIP No. P956643) (BOT Resol. # 98-82 - 6/15/98), \$24,000 from the Rockville Campus Science Center Project (CIP No. P036600) (BOT Resol. # 15-03-025 - 03/23/15); and \$1,861,000 in G.O. Bonds from Science West Building Renovation (#P076622). Beginning in FY98, the portion of this project funded by County Current Revenues migrated to the College's Operating Budget. Reflecting the migration of this portion of the project, the College's Operating Budget includes funds for this effort. The following fund transfer has been made from this project: \$67,000 to the Commons Building Renovation Project (CIP No. P056601) (BOT Resolution #10-08-057, 07/31/10). In FY19, \$1,861,000 was transferred from available balances elsewhere in the College's capital budget,

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

This project is coordinated with Utility Master Plans and building renovations on the Rockville, Germantown, and Takoma Park/Silver Spring Campuses; and the following projects: Capital Renewal: College (CIP No. P096600), Elevator Modernization: College (CIP No. P046600), Energy Conservation: College (CIP No. P816611), Facility Planning: College (CIP No. P886686), Macklin Tower Alterations (CIP No. P036603), Roof Replacement: College (CIP No. P876664), Computer Science Alterations (CIP No. P046602).



Planning, Design & Construction (P906605)

Category	Montgomery College	Date Last Modified	05/18/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	29,638	19,136	2,598	7,904	1,353	1,353	1,246	1,246	1,353	1,353	-
Construction	9,012	6,420	-	2,592	443	443	410	410	443	443	-
TOTAL EXPENDITURES	38,650	25,556	2,598	10,496	1,796	1,796	1,656	1,656	1,796	1,796	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	19,970	13,703	1,299	4,968	828	828	828	828	828	828	-
G.O. Bonds	18,680	11,853	1,299	5,528	968	968	828	828	968	968	-
TOTAL FUNDING SOURCES	38,650	25,556	2,598	10,496	1,796	1,796	1,656	1,656	1,796	1,796	-

OPERATING BUDGET IMPACT (\$000s)											
FULL TIME EQUIVALENT (FTE)					16	16	16	16	16	16	

APPROPRIATION AND EXPENDITURE DATA (\$000s)			
Appropriation FY 19 Request	1,796	Year First Appropriation	FY90
Appropriation FY 20 Request	1,796	Last FY's Cost Estimate	34,778
Cumulative Appropriation	28,154		
Expenditure / Encumbrances	27,066		
Unencumbered Balance	1,088		

PROJECT DESCRIPTION

This project provides for sixteen full time positions in the Division of Facilities and Security Office. These positions plan, design, manage and implement the College's capital program which extends beyond the current six years. These sixteen positions are broken down into 3 categories: Project Management Staff; Design Staff; and Construction Staff. The positions categorized as Project Management Staff are Project Managers (7), and Project Support Staff (1). The Project Managers are responsible for budget development, program planning, and project management through to completion. The Project Support Staff supports the goals of the Project Managers. The positions categorized as Design Staff are Architect (2), Engineer (1), GIS Coordinator (1), and Architectural Drafter/Designer (1). The final category is Construction Staff, which consists of a Construction Services Supervisor (1), and Construction Trades Workers (2), who are responsible for completing small, in-house construction projects.

COST CHANGE

Increases in FY19 and FY20 are due to the 3% salary increase approved during the FY18 budget cycle, including increases in the cost of health insurance and other salary costs. The increases are funded by reallocating \$280,000 in G.O. Bonds from the Science West Building Renovation project (#P076622). FY23 and FY24 represent years that are new to the six-year period and also reflect an increase using capacity available from a re-oriented renovation schedule in the Collegewide Library Renovation (#P661901).

PROJECT JUSTIFICATION

The above staff supports the increased work load associated with the College's CIP and complements the existing staff expertise. The College's CIP has increased substantially since the mid-1980s and the then existing staff could no longer support the additional projects.

OTHER

FY19 Appropriation: \$1,796,000; \$968,000 (G.O. Bonds) and \$828,000 (Current Revenue: General). FY20 Appropriation: \$1,796,000; \$968,000 (G.O. Bonds) and \$828,000 (Current Revenue: General). The following fund transfers have been made from this project: \$111,000 to Information Technology (#P856509) (BOT Resol. #91-56; \$400,000 to the Takoma Park Expansion project (#996662) (BOT Resol. #07-01-005, 1/16/07). The following fund transfer has been made into this project: \$28,000 (\$7,000 each) from ADA Compliance (#P936660), Energy Conservation (#P816611), Facility Planning (#P886686), PLAR (#P926659) (BOT Resol. #01-153), and \$150,000 from the Takoma Park Campus Expansion (#P996662) (BOT Resol. #11-06-078, 06-20-11), \$700,000 from the Bioscience Education Center project (#P056603) (BOT Resol. #16-04-051, 4/18/16). In addition, \$280,000 in G.O. Bonds was reallocated from the Science West Building Renovation project (#P076622) by Council action in FY19. During FY87-89, certain personnel costs were charged to individual capital projects. As some staff work is required on every capital project, separately identifying staff funding is an efficient and cost effective method of management for the College and provides a clear presentation of staff costs.

DISCLOSURES

Expenditures will continue indefinitely.



Rockville Student Services Center (P076604)

Category	Montgomery College	Date Last Modified	05/17/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Rockville	Status	Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	10,369	6,401	3,968	-	-	-	-	-	-	-	-
Construction	53,716	424	53,292	-	-	-	-	-	-	-	-
Other	9,475	-	-	9,475	9,475	-	-	-	-	-	-
TOTAL EXPENDITURES	73,560	6,825	57,260	9,475	9,475	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	37,927	3,729	28,472	5,726	5,726	-	-	-	-	-	-
State Aid	35,633	3,096	28,788	3,749	3,749	-	-	-	-	-	-
TOTAL FUNDING SOURCES	73,560	6,825	57,260	9,475	9,475	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request			9,475	Year First Appropriation							FY13
Appropriation FY 20 Request			-	Last FY's Cost Estimate							75,254
Cumulative Appropriation			64,085								
Expenditure / Encumbrances			56,021								
Unencumbered Balance			8,064								

PROJECT DESCRIPTION

This project provides funds for the construction of a new student services center (127,960 gross square feet) to support student administrative services as outlined in the Rockville Campus Facilities Master Plan, 2013-2023 (2/16). This project brings together student and administrative services to support the concept of one stop shopping services for students. Specifically, it will include the following campus related functions and activities: Admissions and Registration, Financial Aid, Cashier, Dean of Student Development, Career Transfer Center, Assessment, Counseling, Disabled Student Services (DSS), and Trio program plus support services such as a training facility, storage, resource library and waiting areas. In addition, this building will house the Office of Safety and Security and a new parking department. This project also includes funding for a central plant located in the Student Services Center and funding for a road extension/site improvements related to the building.

ESTIMATED SCHEDULE

Project construction is scheduled to be completed in the fall 2019.

COST CHANGE

Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project. The College reduced funding and expenditures by \$1,694,000 (\$847,000 each for State Aid and G.O. Bonds) to reflect the State's approved equipment funding.

PROJECT JUSTIFICATION

Currently, these intake functions are fragmented and are insufficiently accommodated: Student Development is located in the Counseling & Advising Building; the assessment program is located in Campus Center; Admissions, Registration and Financial Aid are located in the Student Services Building. Bringing these functions under one roof will be of great benefit to students by increasing the efficiency of the intake operations. Relevant studies include the Collegewide Facilities Condition Assessment (12/13), the Collegewide Master Plan 2013-2023 (2/16), and the Rockville Student Services Center Part 1/Part 2 (5/11).

OTHER

FY19 Appropriation: \$9,475,000 Total: \$5,726,000 (G.O. Bonds), and \$3,749,000 (State Aid). FY20 Appropriation: \$0. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$53,712,000) include: site improvement costs (\$9,553,000), building construction costs (\$44,159,000). The building construction cost per gross square foot equals \$348 (\$44,159,000/126,756).

DISCLOSURES

A pedestrian impact analysis will be performed during design or is in progress. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Facility Planning: College (CIP #P886686)



Roof Replacement: College

(P876664)

Category	Montgomery College	Date Last Modified	05/14/18
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	1,505	1,068	6	431	200	33	33	33	66	66	-
Construction	10,310	5,821	1,170	3,319	1,800	217	217	217	434	434	-
TOTAL EXPENDITURES	11,815	6,889	1,176	3,750	2,000	250	250	250	500	500	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	9,364	4,438	1,176	3,750	2,000	250	250	250	500	500	-
Current Revenue: General	1,248	1,248	-	-	-	-	-	-	-	-	-
State Aid	1,203	1,203	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	11,815	6,889	1,176	3,750	2,000	250	250	250	500	500	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request			2,000		Year First Appropriation						FY87
Appropriation FY 20 Request			250		Last FY's Cost Estimate						9,065
Cumulative Appropriation			8,065								
Expenditure / Encumbrances			6,940								
Unencumbered Balance			1,125								

PROJECT DESCRIPTION

This project provides for the replacement/major repair of roofs and entrance canopies on buildings at all three campuses, including the addition of roof insulation as part of the replacement work. Project costs are based on comprehensive roof surveys of all College buildings completed in 2008. An update to this survey is underway, and anticipated to be completed in FY18.

COST CHANGE

Increase in FY19 is due to the need for a new roof on the Rockville Physical Education Building, with \$813,000 in G.O. Bonds reallocated from the Germantown Bioscience Education Center project (#P056603) and \$937,000 reallocated from Science West Building Renovation (#P076622). Additions in FY23 and FY24 are for new years in the six-year period and reflect an increase to the level of effort.

PROJECT JUSTIFICATION

The College has implemented a roof replacement/renovation program to respond to the aging of building roofs. The program provides for the periodic evaluation of roofs on a four year cycle. The current roof replacement/major repair schedule delineates specific building projects. Roofs requiring major renovation are generally ten years or older in age. In the initial replacement cycle, approximately 33% of the construction cost is for the addition of roof insulation on each building. Added insulation results in an average five year payback due to reduced energy costs and lower replacement costs of mechanical equipment retrofits in building renovations. This project is coordinated with the College's building renovation program and with the replacement of major roof-top building equipment. Related studies include the Collegewide Roof Surveys Update (pending fall 2017), a Collegewide Facilities Condition Assessment Update (12/13) and the Collegewide Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: \$2,000,000(G.O. Bonds). FY20 Appropriation: \$500,000 (G.O. Bonds). By County Council Resolution #12-663, the cumulative project appropriation was reduced by \$65,000 in FY92. In addition, the State share was reduced by \$65,000 in FY92. FY87-FY91, and FY93 project funding was 100% current revenue. FY92 funding was current revenue and State aid. No appropriations were made to this project in FY94 and FY95. In FY96, funding was changed to G.O Bonds and State aid. State aid applies only to roof replacement design and construction. Roof surveys are 100% County G.O. Bond funded. In FY19, \$813,000 in G.O. Bonds was reallocated from the Bioscience Education Center project (#P056603) and \$937,000 in G.O. Bonds were reallocated from the Science West Building Renovation project (#P076622).

DISCLOSURES

Expenditures will continue indefinitely. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Energy Conservation (CIP No. P816611), Planned Lifecycle Asset Replacement: College (CIP No. P926659), FY18 – Collegewide Roof Surveys & Major

Repairs, which will also determine next sequence of projects.



Science West Building Renovation (P076622)

Category Montgomery College **Date Last Modified** 05/17/18
SubCategory Higher Education **Administering Agency** Montgomery College
Planning Area Rockville **Status** Final Design Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	3,162	3,055	107	-	-	-	-	-	-	-	-
Construction	25,363	24,160	1,203	-	-	-	-	-	-	-	-
Other	3,675	2,212	1,463	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	32,200	29,427	2,773	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)											
State Aid	16,461	13,698	2,763	-	-	-	-	-	-	-	-
G.O. Bonds	15,739	15,729	10	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	32,200	29,427	2,773	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)				
Appropriation FY 19 Request	-	Year First Appropriation		FY09
Appropriation FY 20 Request	-	Last FY's Cost Estimate		35,346
Cumulative Appropriation	35,346			
Expenditure / Encumbrances	31,376			
Unencumbered Balance	3,970			

PROJECT DESCRIPTION

This project (total 70,164 GSF) provides for the realignment/renovation of space in the Science West Building (41,988 GSF), and for the addition of a third floor (28,176 GSF) on the Rockville Campus in accordance with the College's Facilities Master Plan (1/04) and the building educational space specifications. The renovated building will house the Math department faculty offices and the Math Learning Center. The building renovation will include general building improvements, HVAC system replacement and related energy conservation measures, and building access improvements. The addition will add a third floor to the Science West building to provide additional classroom support to address instructional space deficits at the Rockville Campus. A building survey in FY91 determined that the building structure is fireproofed with a sprayed on asbestos product and asbestos thermal insulation is used on the mechanical systems. An asbestos removal is determined to be the most appropriate response under Federal and State asbestos guidelines. The removal project will include mechanical system reinsulation and reroofing in conformance with the local fire code.

ESTIMATED SCHEDULE

Project construction was completed during winter 2017.

COST CHANGE

Funds no longer needed in this project of \$3,146,000 in G.O. Bonds were reallocated to: Planned Lifecycle Asset Replacement: College (#P926659), \$1,861,000 in G.O. Bonds; Planning, Design, and Construction (#P906605), \$280,000 in G.O. Bonds; Roof Replacement: College (#P876664), \$937,000 in G.O. Bonds; and Elevator Modernization (#P056608), \$68,000 in G.O. Bonds.

PROJECT JUSTIFICATION

Science West was constructed in 1971. The building no longer adequately supports the educational programs and support functions housed in it. The College will coordinate the renovation of Science West with the construction of the Rockville Science Center. The Chemistry and Biology departments will relocate to the new Rockville Science Center when it is completed in FY11. The existing mechanical system is inadequate and will be replaced along with the existing lighting to create better illumination levels and greater energy efficiency. The funds requested will also provide for the reassignment, realignment, and renovation of space, including furniture and equipment; energy conservation; and handicapped modification measures. Relevant studies include the Collegewide Facilities Condition Assessment (12/13), a Collegewide Facilities Master Plan Update (1/15), and the Part I and 2 Program documentation submitted to the State for the Renovation/Addition to the Science East & Science West Buildings (5/06).

OTHER

FY19 Appropriation: -\$3,146,000 in G.O. Bonds. Additional funding Source: State Aid. State share of project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement.

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans,

as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Rockville Science Center (CIP No. P036600), Science East Building Renovation (CIP No. P076623)



Student Learning Support Systems (P076617)

Category Montgomery College **Date Last Modified** 05/18/18
SubCategory Higher Education **Administering Agency** Montgomery College
Planning Area Countywide **Status** Ongoing

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	6,336	3,647	289	2,400	400	400	400	400	400	400	-
Other	14,884	7,718	1,566	5,600	600	1,000	1,000	1,000	1,000	1,000	-
TOTAL EXPENDITURES	21,220	11,365	1,855	8,000	1,000	1,400	1,400	1,400	1,400	1,400	-

FUNDING SCHEDULE (\$000s)											
Current Revenue: General	20,858	11,003	1,855	8,000	1,000	1,400	1,400	1,400	1,400	1,400	-
Recordation Tax	362	362	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	21,220	11,365	1,855	8,000	1,000	1,400	1,400	1,400	1,400	1,400	-

OPERATING BUDGET IMPACT (\$000s)											
FULL TIME EQUIVALENT (FTE)					4	4	4	4	4	4	

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request			1,000		Year First Appropriation						FY07
Appropriation FY 20 Request			1,400		Last FY's Cost Estimate						18,820
Cumulative Appropriation			13,220								
Expenditure / Encumbrances			11,365								
Unencumbered Balance			1,855								

PROJECT DESCRIPTION

This project includes the installation, upgrading, and replacement of technology systems used to support teaching, learning and advising, to assess student outcomes, and to improve the effectiveness of College services to students. This includes technology to support students with disabilities, technology-based communication and collaboration systems, systems to provide students with access to electronic course materials, library resources, and other applications used by and for students and faculty, including both hardware, software and cloud services. The project funds four technical project and planning analyst positions to manage and support multiple academic support systems.

COST CHANGE

Increase is due to the addition of FY23 and FY24, partially offset by a FY19 reduction of \$400,000 due to County affordability constraints.

PROJECT JUSTIFICATION

It is essential that appropriate systems are in place to enhance learning as well as collaboration and communication. Increased attention to student retention and success has created a growing need to assess the effectiveness of the services and support provided to students and the impact on student success. Leveraging technology is fundamental to enabling student success. State-of-the-market hardware and software capabilities and cloud services are required to attract and serve students, faculty and staff, as well as to serve the business community by upgrading work force technology skills and providing a base for continued economic development in the county. Information technology directly enables the College's mission and is used to facilitate student success; to effectively and efficiently operate the College; and to support the College's growth, development, and community initiatives.

OTHER

FY19 Appropriation: \$1,000,000 (Current Revenue: General). FY20 Appropriation: \$1,400,000 (Current Revenue: General). The following fund reductions/transfers have occurred with this project: By County Council Resolution No. 16-1261, the cumulative appropriation was reduced by \$1,000,000 (Current Revenue: General) as part of the FY10 savings plan; and \$300,000 was transferred from the Information Technology project (#P856509) to this project in FY11.

DISCLOSURES

Expenditures will continue indefinitely.

COORDINATION

MC2020 Strategic Plan, Academic Master Plan (2015), Facilities Master Plan 2013-2023 (2/16), Information Technology Master Plan, Student Affairs Master Plan (draft), and campus building renovation projects. Expenditures are made in alignment with the priorities and guidelines established by these documents.



Takoma Park/Silver Spring Math & Science Center (P076607)

Category Montgomery College **Date Last Modified** 05/21/18
SubCategory Higher Education **Administering Agency** Montgomery College
Planning Area Silver Spring and Vicinity **Status** Planning Stage

	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
EXPENDITURE SCHEDULE (\$000s)											
Planning, Design and Supervision	10,276	-	1,500	8,776	4,582	4,194	-	-	-	-	-
Construction	68,502	-	-	68,502	-	8,514	27,506	20,482	12,000	-	-
Other	6,850	-	-	6,850	-	-	-	6,850	-	-	-
TOTAL EXPENDITURES	85,628	-	1,500	84,128	4,582	12,708	27,506	27,332	12,000	-	-

FUNDING SCHEDULE (\$000s)											
G.O. Bonds	42,814	-	750	42,064	2,291	6,354	13,753	13,666	6,000	-	-
State Aid	42,814	-	750	42,064	2,291	6,354	13,753	13,666	6,000	-	-
TOTAL FUNDING SOURCES	85,628	-	1,500	84,128	4,582	12,708	27,506	27,332	12,000	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)											
Appropriation FY 19 Request	-	Year First Appropriation									FY16
Appropriation FY 20 Request	68,502	Last FY's Cost Estimate									85,628
Cumulative Appropriation	10,276										
Expenditure / Encumbrances	-										
Unencumbered Balance	10,276										

PROJECT DESCRIPTION

This project provides funding for the design and construction of a new academic building (134,600 gross square feet) supporting science programs, such as biology, chemistry, computer science and cybersecurity, engineering, geology, physics, and the mathematics department, as described in the Collegewide Facilities Master Plan, 2013-2023 (2/16). The new math and science building will replace the Science South and Falcon Hall buildings, which will be demolished, and the new building will be constructed on this site.

COST CHANGE

Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project.

PROJECT JUSTIFICATION

Under the application of the State space guidelines, the enrollment growth on the Takoma Park/Silver Spring Campus has resulted in a significant instructional space deficit. The Takoma Park/Silver Spring Campus has a Fall 2016 laboratory space deficit of 62,480 NASF and a total space deficit of 25,398 NASF. The 2026 projected laboratory space deficit is 55,883 NASF and the total space deficit is anticipated to be 99,331 NASF. The construction of the math & science building will address this deficit as well as replace Science South and Falcon Hall, which are in exceedingly poor condition (as identified in the Collegewide Facilities Condition Assessment, 12/13). Relevant studies include the Collegewide Facilities Condition Assessment Update (12/13), and the Collegewide Facilities Master Plan 2013-2023 (2/16).

OTHER

FY19 Appropriation: 0 FY20 Appropriation: \$68,500,000; \$34,250,000 (G.O. Bonds), and \$34,250,000 (State Aid). Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$68,500,000) include: site improvement costs (\$6,334,000), building construction costs (\$62,166,000). The building construction cost per gross square foot equals \$462 (\$62,166,000/134,600).

DISCLOSURES

A pedestrian impact analysis has been completed for this project. Montgomery College asserts that this project conforms to the requirement of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

COORDINATION

Facility Planning: College (CIP No. P886686)

PART III: Capital Improvements Projects To Be Closed Out

The following capital projects are closed out effective June 30, 2018, and the appropriation for each project is decreased by the amount of the project's unencumbered balance.

Project Number	Project Name
P056603	Bioscience Education Center
P046602	Computer Science Alterations
P076623	Science East Building Renovation
P076622	Science West Building Renovation