February 20, 2020



BOARD OF TRUSTEES ROUDEBUSH HALL ROOM 212 OXFORD, OHIO 45056 (513) 529-6225 MAIN (513) 529-3911 FAX WWW.MIAMIOH.EDU

#### BOARD OF TRUSTEES MIAMI UNIVERSITY Minutes of the Finance and Audit Committee Meeting February 20, 2020 Room 180-6, Marcum Conference Center

Chair Michael Armstrong called the meeting to order at 1:30 p.m., with a majority of members present, constituting a quorum. Roll was called; attending with Chair Armstrong were Committee members; Trustees David Budig, Sandra Collins, Mark Ridenour, and Rod Robinson; and National Trustees Robert Coletti, and Mark Sullivan. Also attending were Trustees Zachary Haines, John Pascoe, Mary Schell, and Robert Shroder, along with National Trustee Diane Perlmutter, and Student Trustees Megan Cremeans and Will Kulis.

In addition to the Trustees, President Gregory Crawford, Provost Jason Osborne, Senior Vice President David Creamer, Senior Vice President Tom Herbert; Vice Presidents Jayne Brownell, David Seidl, Brent Shock (interim), Ron Scott, and Michele Sparks; General Counsel Robin Parker, and Director of Institutional Relations Randi Thomas, were present. Also present to address or assist the Committee were; David Ellis, Associate Vice President for Budgeting and Analysis; Cody Powell, Associate Vice President for Facilities Planning and Operations; Bruce Guiot, Chief Treasury Officer; and Ted Pickerill, Executive Assistant to the President, and Secretary to the Board of Trustees; along with many members of the Miami University community who were in attendance to observe, present and/or assist.

#### **Executive Session**

Trustee Robinson moved, Trustee Budig seconded, and by unanimous roll call vote, with eight voting in favor and none opposed, the Committee convened to Executive Session to consult with counsel, as provided by the Open Meetings Act, Ohio Revised Code Section 121.22.

#### **Public Business Session**

Chair Armstrong welcomed everyone and opened the meeting.

#### **Approval of the Minutes**

Trustee Ridenour moved, Trustee Robinson seconded and by unanimous voice vote, with all voting in favor and none opposed, the minutes from the prior meeting of the Finance and Audit Committee were approved.

#### **Advancement Report**

Senior Vice President Herbert update the Committee on campaign progress to date. He stated that this year, Advancement has currently raised over \$50 million, towards a \$100 million goal for the year. Last year, \$84.5 million was raised (the second-best calendar year ever), with over \$40 million in cash received,

He reviewed campaign drivers, which include:

- Honors College
- Clinical Health Building Board to consider on February 21, 2020 for approval
- Possible Alumni Center
- Possible Digital Innovation Center
- Farmer School of Business Dean's Search
- College of Engineering and Computing Dean's Search
- Training Deans for fundraising through a CASE conference
- Continued exploration of corporate partnerships, Cleveland Clinic, etc.

He concluded by summarizing the campaign volunteer structure.

Associated Materials are included as Attachment A.

#### **Budget Planning**

Chair Armstrong outlined many of the current challenges, including maintaining enrollment, net tuition revenue (NTR), and the potential impact of the coronavirus in China.

Senior Vice President Creamer then reviewed the current budget which illustrated Miami's dependence on tuition and fees, and the change in year-to-year increases in state aid and tuition, From the late 1970s to the 1990s, state appropriations to higher education increased by 10% annually, and tuition increased at 6%, these annual rates have slowed significantly, to 1.6% for the state and 0.2% for tuition from 2006 to 2019.

He reviewed the trends in enrollment, which have increased overall, with growth in the nonresident portion. However, the number of international students peaked in 2015 at over 600 in the entering class, and was under 200 for the Fall of 2019. While enrollment is up, scholarships awarded have risen as well, which has reduced the NTR per incoming student, creating challenges in achieving target overall NTR.

SVP Creamer then outlined potential future issues. Which included:

- Growing revenue (new degrees, optimal size, growing applications, selectivity vs. access)
- The organizational structure for the future
- The balance between higher education quality and price

• Preparing for the next recession

Associated materials are included as Attachment B.

#### **Capital Projects**

Senior Vice President Creamer reviewed new debt to fund the two anticipated major projects, the Clinical Health Sciences building, and a potential Digital Innovation building. Explained the process to issue bonds, which is several months long. He reviewed financing scenarios, and provided an overview of currently existing bond debt and service requirements. He also reviewed the 2020 Fitch rating, which is AA: Very High Credit Quality.

Capital projects were then reviewed and resolutions discussed for the construction of the Clinical Health Sciences and Wellness building and the issuance of debt to fund the construction.

Associated materials are included as Attachment C.

#### **Room and Board Ordinance**

Senior Vice President Creamer presented the proposed room and board rates for academic year 2020-2021. For those students already attending Miami, the Miami Promise applies and their rates remain unchanged. For entering students, the proposed room and board rates do not exceed 2% over those approved for the prior Fall's entering class.

Associated materials are included as Attachment D.

#### Quasi Endowment

Senior Vice President Creamer next explained a proposed quasi-endowment. He stated the quasi-endowment is to support the Ecology Research Center (ERC). A cellular phone tower is located at the Center, and it is recommended that the proceeds from a recently agreed upon lump sum, long-term lease with the cellular company, be invested for the ERC's use, through the quasi-endowment.

Associated materials are included as Attachment E.

#### **Patent Policy**

Senior Vice President Creamer explained that Miami's patent policy was last reviewed and amended in 1983. Recently, the research of Professor Andrew Jones in Methods of Production of Psilocybin, has generated considerable commercial interest and a provisional patent has been filed. The resolution authorizes the filing of a patent, and entering into licensing and other agreements for commercial development. And into agreements with Professor Jones and any other named inventors for the division of net royalties and other proceeds.

Associated materials are included as Attachment F.

#### **E-Sports**

Senior Vice President Creamer informed the Committee regarding the proposed esports resolution. The resolution would allow Miami to join an e-sports conference to compete on an intercollegiate basis with other universities in the Mid-American Conference. The resolution also allows for the President, or any other University employee, to serve on the conference board of directors.

Associated materials are included as Attachment G.

#### **Investment Subcommittee**

Subcommittee Chair Ridenour relayed that Strategic Investment group (SIG) provided the Subcommittee with an update, and reviewed the long-term capital portfolio investment performance, and stress tests.

He also informed the Committee that the Investment Subcommittee reviewed the proposed quasi-endowment resolution, and he recommends its approval.

The minutes from the meeting of the Investment Subcommittee are included as Attachment H.

#### **Ordinance and Resolutions**

Chair Armstrong proposed that all ordinances and resolutions before the Committee be considered in a single vote. Hearing no objections, a motion was made to recommend approval, was seconded, and by unanimous voice vote, with all in favor and none opposed, the Committee recommend approval of all ordinances and resolutions presented.

#### **Forward Agenda**

In June the committee will receive the FY2021 budget for consideration.

#### **Additional Reports**

The following written reports were provided for the Committee's information and review:

Financial Highlights, Attachment I Enrollment Update, Attachment J Internal Audit Reporting Update, Attachment K Cash and Investments, Attachment L Lean Project Update, Attachment M

#### **Adjournment**

With no more business to come before the Committee, following a motion, second, and unanimous voice vote, with all in favor and none opposed, the Committee adjourned at 4:30 p.m.

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Theodore O. Pickerill II Secretary to the Board of Trustees

## **University Advancement Report**

#### Tom Herbert, J.D.

Senior Vice President, University Advancement

President, Miami University Foundation



Attachment A

Overall Page 6 of 190

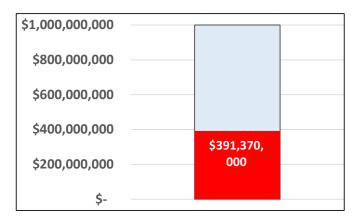
Attachment Page 1 of 12

## **\$1B Campaign Progress Report**

- » Goal: \$1 billion
- » Raised to date: \$391.4 million (39% of goal)



### **\$1B Campaign Progress Report**





## FY'20 Fundraising To Date

.....

- » Goal: \$100 million
- » Raised to date: \$52.2 million (51% of goal)
   » Last FY: \$25.5 million
- » Solicitation activity in FY20:
  - » 17 asks of \$1M+ (\$75 million)
  - » 381 asks of \$50-999k (\$45 million)
  - » In addition, expected close on \$48 million of previous asks



#### FY'20 Cash Received

- » Goal: \$40 million
- » Raised to date: \$26.6 million (67% of goal)
   » Last FY: \$25.3 million
- » Cash to Endowment: \$16.7 million
   » Last FY: \$9.7 million



Attachment A



- » Fundraising Commitments: \$84.5 million (second-best calendar year)
- » Cash Received: \$42.1 million (fourth-best calendar year)



Attachment Page 6 of 12

### Farmer School of Business Campaign

- » Seven year campaign for \$250 million
- » Timeline: July 1, 2016 June 30, 2023
- » Raised to date: \$73.8 million
- » Cash received: \$25.6 million



Attachment A

### **Campaign Drivers**

- » Honors College in refinement
- » Clinical Health Building schematics in hand
- » Alumni Center schematics in refinement; naming explored
- » Digital Innovation Center location in place; further schematics to be developed



Attachment A

### **Campaign Drivers**

- » Farmer School of Business Dean's Search
- » College of Engineering and Computing Dean's Search
- » Training Deans for fundraising through a CASE conference
- » Continued exploration of corporate partnerships
  - » Cleveland Clinic, etc.



Attachment Page 9 of 12

### **Campaign Volunteer Future Structure**

- » Early stages- fully in place when campaign "Goes Public"
  - » National Campaign Steering Committee
  - » Regional Campaign Committees
  - » Corporate and Foundation Committee



Attachment Page 10 of 12

### **Campaign Volunteers Now**

- » Working with the Foundation Board for high level prospect identification
- » Working with a Scholarship Task Force
- » Asking <u>all</u> board volunteers across Miami for a campaign gift and their contacts



Attachment A

## Thank you!





Overall Page 17 of 190

Attachment Page 12 of 12

# Background Information on Miami University's Budget

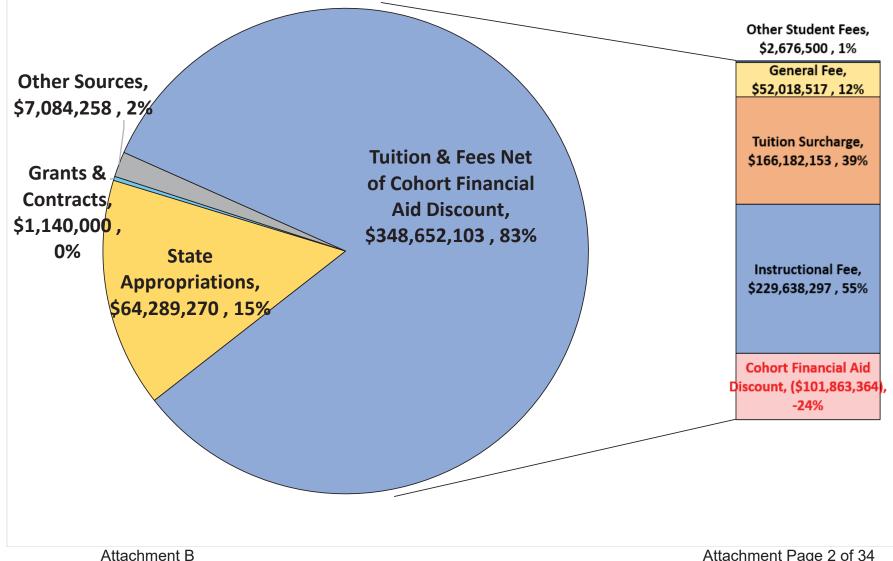


Attachment Page 1 of 34

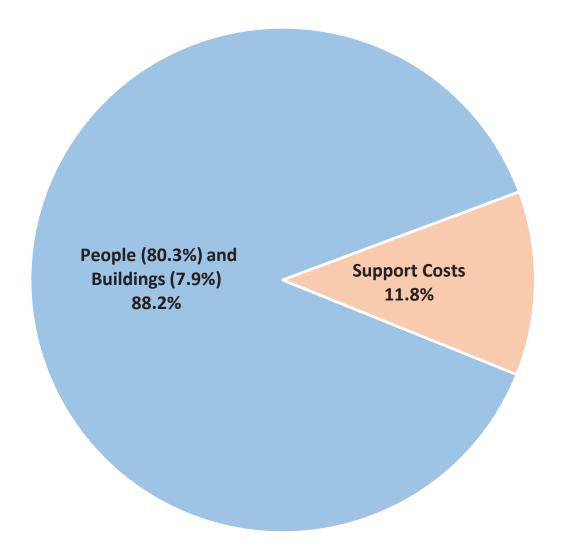
Attachment B

Overall Page 18 of 190

## Miami University 2019-2020 Budget **Oxford Campus General Fund Revenue** \$421,165,631



## Miami University - Oxford Campus 2019-2020 General Fund Expenditure Budget Excluding Scholarships and Fee Waivers



Annual

Rate

## Miami University- Oxford Campus General Fund Budget Comparison Fiscal Year 1997-80 to 2019-2020

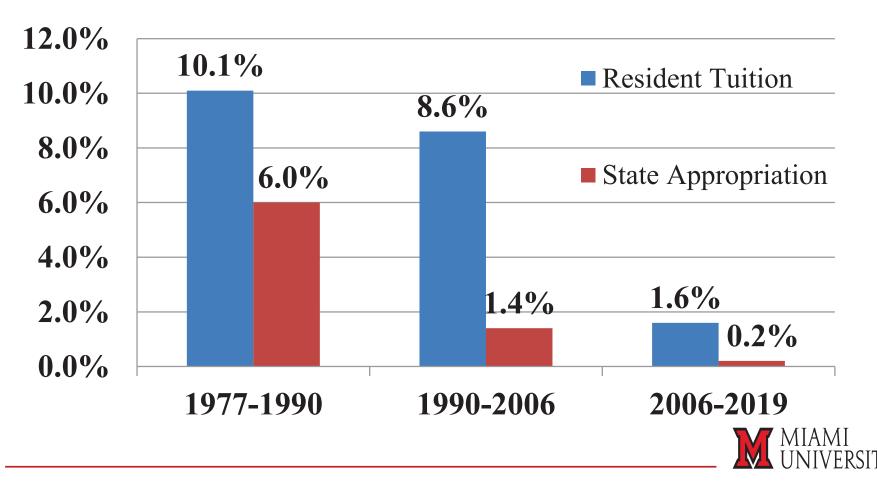
				Of
	<u>1979-80</u>	<u>2019-20</u>	<u>Growth</u>	<u>Growth</u>
Total Budget	\$53,275,475	\$515,285,630	9.7 times	5.9%
Tuition and Fees (Gross)	23,701,600	450,515,467	19.0 times	7.9%
State Appropriation	28,118,500	64,289,270	2.3 times	2.1%
Scholarships and Fee Waivers	536,000	120,177,042	224.2 times	14.5% (25.5%)
CPI	72.6	258	3.6 times	3.2%
Enrollment	14,758	19,716	1.3 times	0.9% (2.3%)



Attachment Page 4 of 34

## How has University Funding Changed Over Time?

## Annualized Rates of Increase in Historic Revenue Sources



# **Long-Term Budget Planning**



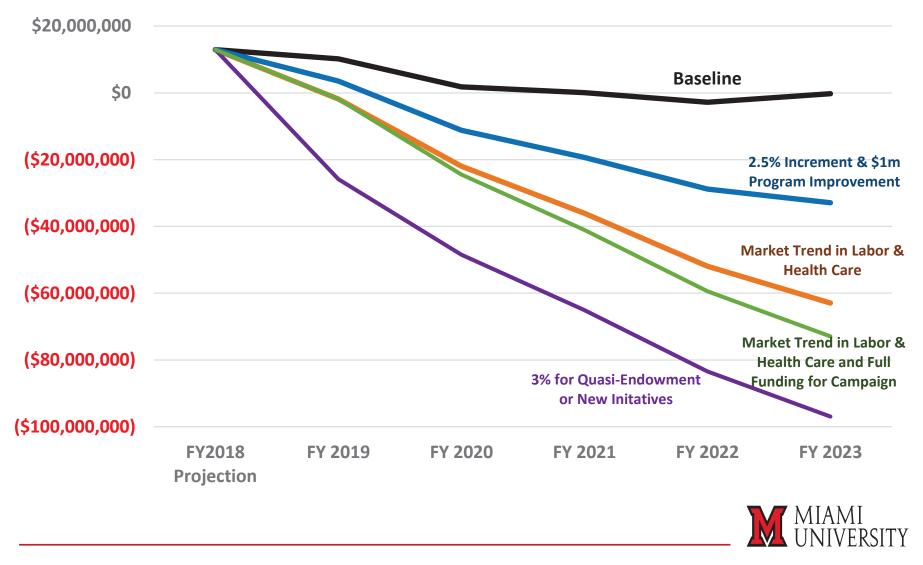
Attachment B

Attachment Page 6 of 34

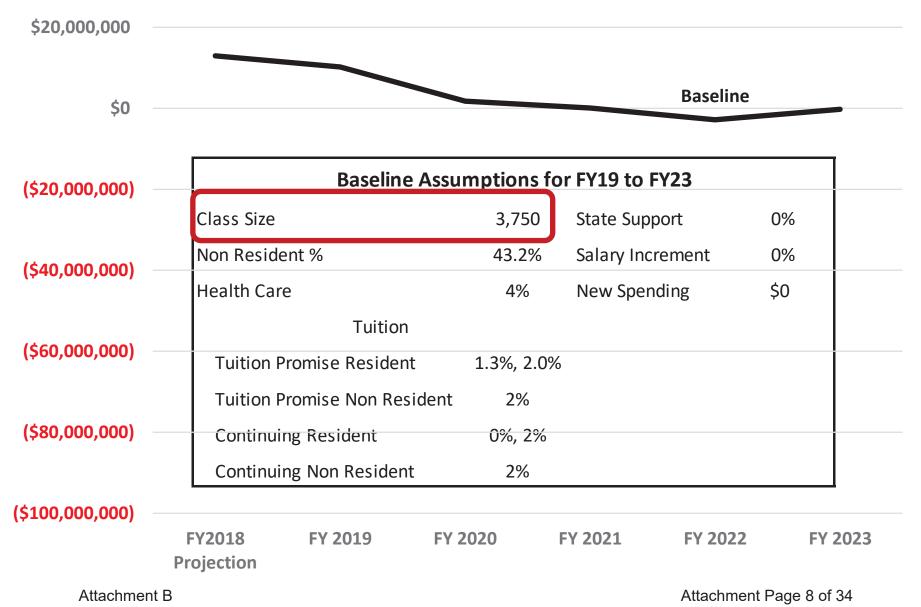
Overall Page 23 of 190

# **Budget Planning June 2017**

## **Oxford Campus Financial Forecast**

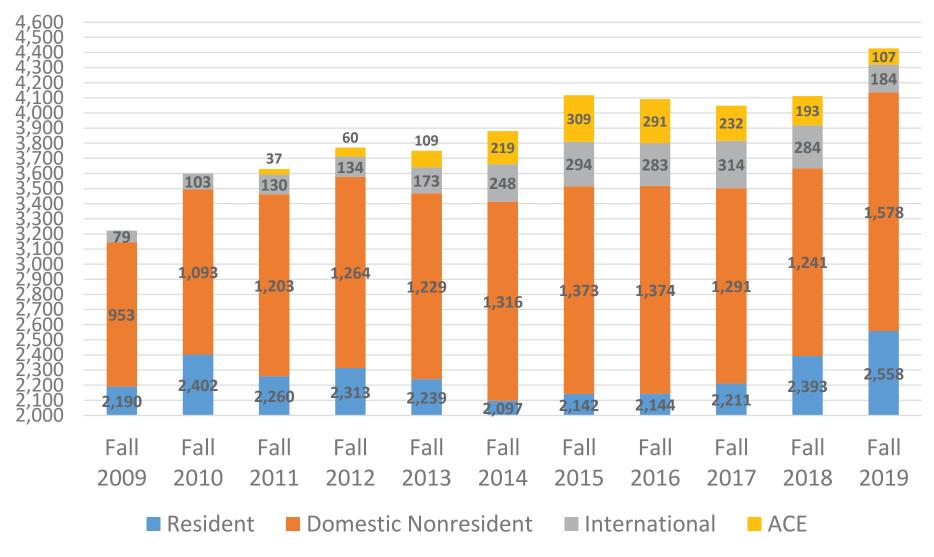


## **Oxford Campus Financial Forecast**

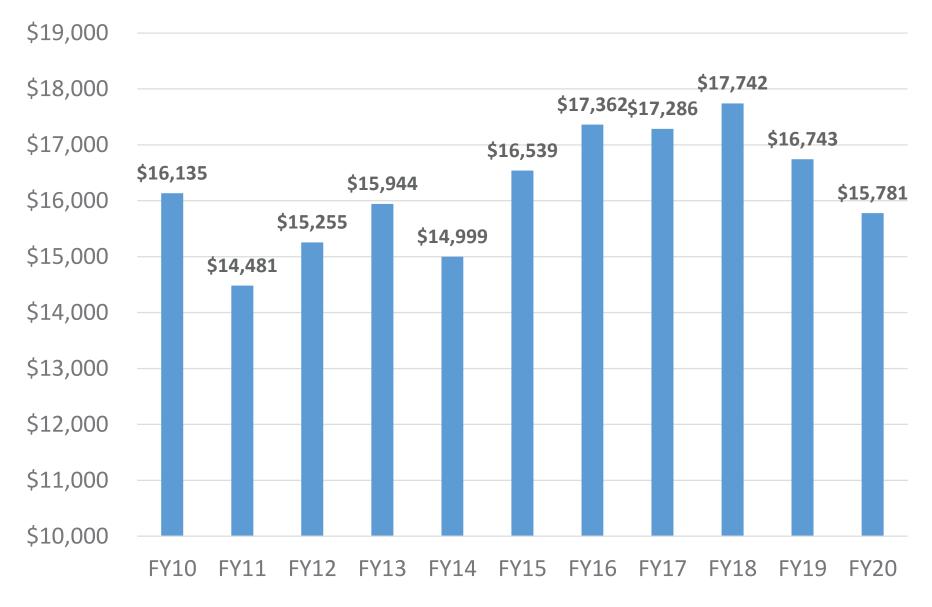


Overall Page 25 of 190

## Actual First Year Enrollment Trend Fall 20029 - Fall 2019



## NTR Per First Year Student



Attachment B

# Current Budget Outlook FY 2021 through FY 2025



Attachment B

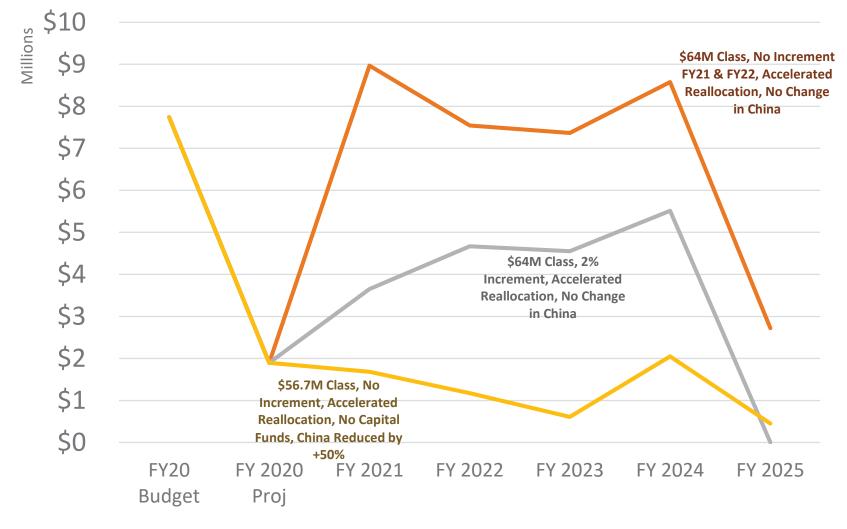
Attachment Page 11 of 34

Overall Page 28 of 190

Attachment B

Budget Planning SVP Creamer

## Oxford Campus Projected Financial Performance FY 2020 through FY 2025





Attachment B

## Revised Budget Plan Stacked & Accelerated Reallocations

Administrative Unit Reduction (10.5%)	FY20	FY21	FY22	FY23	FY24	Total
President's Office	\$166,139	\$621,456	\$165,542	\$89 <i>,</i> 595	\$88,251	\$1,130,983
Finance Business Services	\$237,775	\$1,380,870	\$0	\$0	\$0	\$1,618,645
Physical Facilities	\$509,230	\$2,157,331	\$0	\$0	\$800,000	\$3,466,561
Enrollment Mgmt & Student Success	\$251,883	\$1,043,246	\$314,575	\$0	\$104,979	\$1,714,683
Student Life	\$112,483	\$355,396	\$218,267	\$79,577		\$765,723
IT Services	\$244,501	\$481,667	\$474,442	\$233,663	\$230,158	\$1,664,432
University Advancement	\$221,506	\$1,286,385	\$0	\$0	\$0	\$1,507,891
CLAAS Departments	<u>\$278,320</u>	<u>\$1,662,502</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$1,940,822</u>
<b>Total Administrative Unit Reductions</b>	\$2,021,837	\$8,988,853	\$1,172,826	\$402,835	\$1,223,388	\$13,809,739
Provost Offices' Reduction (10.5%)	\$490,411	\$2,848,040	\$0	\$0	\$0	\$3,338,451
Academic Deans' Reduction (10.5%)	FY20	FY21	FY22	FY23	FY24	Total
CAS Dean's Office	\$59,410	\$345,022	\$0	\$0	\$0	\$404,432
EH&S Dean's Office	\$43,570	\$253,029	\$0	\$0	\$0	\$296,599
FSB Dean's Office	\$57,132	\$331,789	\$0	\$0	\$0	\$388,921
CEC Dean's Office	\$29,306	\$170,194	\$0	\$0	\$0	\$199,500
CCA Dean's Office	\$18,044	\$104,790	\$0	\$0	\$0	\$122,834
CLAAS Dean's Office	<u>\$43,621</u>	<u>\$263,287</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$306,908</u>
Total Deans' Reductions	\$251,083	\$1,468,111	\$0	\$0	\$0	\$1,719,194
Auxiliary Reductions (14.0%)	FY20	FY21	FY22	FY23	FY24	Total
Intercollegiate Athletics	\$382,588	\$749,873	\$734,876	\$360,089	\$352,887	\$2,580,314
Recreational Sports Center	\$78,566	\$451,312	\$0	\$0	\$0	\$529,878
Goggin Ice Center	\$9,436	\$54,205	\$0	\$0	\$0	\$63,642
Shriver Center	\$18,470	\$106,097	\$0	\$0	\$0	\$124,567
Transportation Services	\$4,334	\$24,897	\$0	\$0	\$0	\$29,232
Residence Life	\$34,137	\$95,097	\$71,033	\$36,227	\$11,494	\$247,988
Residence & Dining Halls	<u>\$262,273</u>	<u>\$535,038</u>	<u>\$545,739</u>	<u>\$278,327</u>	<u>\$283,893</u>	<u>\$1,905,270</u>
Total Auxiliary Reductions	\$789,805	\$2,016,519	\$1,351,647	\$674,642	\$648,274	\$5,480,889
Total Reductions for All Units	\$3,553,135	\$15,321,524	\$2,524,473	\$1,077,477	\$1,871,662	\$24,348,272



# Budget Planning for Fiscal Year 2021



Attachment Page 14 of 34

Attachment B

Overall Page 31 of 190

## **FY21 Budget Planning**

		Hamilton &			
FY 2021 Budget Assumptions	Oxford	Middletown			
Fall Class Tuition	\$56.7M - \$64M	\$6.5M - \$7.1M			
Fall Class - First Time Students	4,164 - 4,480	704 - 777			
Fall Class - Other Incoming Students	358 - 463	477 - 527			
Fall Enrollment Mix - Non-Resident	40.8%	N/A			
Tuition Increase - Tuition Promise Non-Resident	2.0%	2.0%			
Tuition Increase - Tuition Promise Resident (4% Cap)	2.0%	4.0%			
Tuition Increase - Continuing Non-Resident	2.0%	2.0%			
Tuition Increase - Continuing Resident (2% Cap)	2.0%	2.0%			
Tuition Increase - Non-Resident Lower / Upper Division	N/A	2.0%			
Tuition Increase - Resident Lower / Upper Division	N/A	2.0%			
Tuition Increase - Graduate Resident & Non-Resident	2.0%	2.0%			
State Share of Instruction - Change from FY20 Actuals	1%	1%			
Change in Investment Income	No Change	No Change			
Salary Increment Pool & Market Adjustments	0% to 2%	0% to 2%			
Staff Benefit Rate	38.5% - 39.5%	38.5% - 39.5%			
Utilities Trend	3.0%	2.0%			
Non-Personnel Inflation	2.0%	0.0%			
Undergraduate Cohort Scholarships Increase	\$12.9M - \$15.6M	N/A			
Vacancy Used to Balance Divisonal Budgets	\$6.1M	\$2.3M			
Strategic Priorities Initiatives					
New Revenue	\$1.2M	\$1.0M			
Budget Reallocation Targets	-\$13.4M	-\$1.9M			
Reserves for One-Time Severence Pay	\$250K	\$0			



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## **Future Issues**



Attachment B

Attachment Page 16 of 34

Overall Page 33 of 190

## Critical Questions to be Answered in Defining a 21<sup>st</sup> Century University

- How does the University grow revenue every year?
  - Will new in-demand academic programs assist with this goal?
  - What size is optimal for growing revenue?
  - How does Miami grow applications again and what markets will generate this growth?
  - What is the right balance between selectivity and access?
- If universities must be more flexible and nimble, what does the organization need to look like?
- If higher education is increasingly viewed as a commodity by families, what is the right balance between quality and efficiency?
- How does Miami University prepare for a recession that is likely to bring investment losses, enrollment loss, and cuts in state support?



# **Questions?**



Attachment B

Attachment Page 18 of 34

Oxford Campus Long Range Model - \$64M NIR Class, 2% Increment, Accelerated Reallocation													
	FY20 Budget	FY	2020 Proj		FY 2021		FY 2022		FY 2023		FY 2024		FY 2025
Revenue													
Undergraduate Net Instructional Revenue													
UG Total Instructional Fee	\$ 366,661,132		358,792,684	\$	370,172,413	\$	385,579,676	\$	398,356,895	\$	406,753,930	\$	407,963,94
Incoming Class Instructional Fee	\$ 99,358,542	\$	98,488,805	\$	103,841,861	\$	104,656,103	\$	105,286,547	\$	106,070,560	\$	106,797,68
Incoming Class Base Financial Aid	\$ 29,714,122		29,843,838	\$	38,594,183	\$	39,353,157	\$	40,017,238	\$	40,753,971	\$	41,458,39
Increased Price Incoming Class Financial Aid Increased Discount Incoming Class	\$ 1,199,409 \$ 4,657,420	\$ \$	1,119,529 5,821,514	\$ \$	771,884 492,579	\$ \$	787,063 467,186	\$ \$	800,345 469,312	\$ \$	815,079 465,508	\$ \$	829,16 468,03
Incoming Class Net Instructional Revenue	\$ 63,787,590		61,703,924	\$	63,983,215	\$	64,048,697	\$	63,999,652	\$	64,036,001	\$	64,042,09
Change in Incoming Class Net Instructional Revenue	\$ 05,707,550	Ψ	01,703,521	\$	2,279,291	φ \$	65,482	₽ \$	(49,045)		36,349	₽ \$	6,08
				Ψ	2/2/ 5/252	Ψ	007102		(15/615)	Ψ	00,010	Ψ	0,00
Returning Student Instructional Fee	\$ 267,302,590	\$ 2	260,303,878	\$	266,330,552	\$	280,923,573	\$	293,070,347	\$	300,683,371	\$	301,166,263
Returning Student Financial Aid	\$ 80,891,569	\$	80,097,738	\$	92,633,848	\$	107,624,743	\$	121,582,140	\$	126,124,410	\$	128,458,52
Returning Student Net Instructional Revenue	\$ 186,411,021	\$ 1	180,206,140	\$	173,696,704	\$	173,298,830	\$	171,488,207	\$	174,558,961	\$	172,707,74
UG Total Net Instructional Revenue	\$250,198,611	\$24	1,910,065	\$2	237,679,919	\$2	237,347,527	\$3	235,487,859	\$2	238,594,962	\$2	36,749,833
Graduate Net Instructional Revenue													
GR Total Instructional Fee	\$ 29,159,317	\$	28,848,767	\$	29,976,439	\$	30,443,425	\$	30,919,750	\$	31,538,145	\$	32,033,714
GR Total Financial Aid	\$ 24,133,713	\$	21,834,387	\$	24,424,892	\$	24,830,015	\$	25,243,241	\$	25,664,731	\$	26,094,65
GR Total Net Instructional Revenue	\$ 5,025,604	\$	7,014,380	\$	5,551,547	\$	5,613,409	\$	5,676,509	\$	5,873,414	\$	5,939,06
Total Net Instructional Revenue													
Total Instructional Fee	\$ 395,820,449	\$ 3	387,641,451	\$	400,148,852	\$	416,023,101	\$	429,276,645	\$	438,292,075	\$	439,997,66
Total Financial Aid	\$ 140,596,233	\$ 1	138,717,006	\$	156,917,386	\$	173,062,165	\$	188,112,276	\$	193,823,699	\$	197,308,76
Total Net Instructional Revenue	\$ 255,224,216	\$ 2	248,924,445	\$	243,231,465	\$	242,960,937	\$	241,164,368	\$	244,468,376	\$	242,688,89
Other Student Revenue													
UG General Fees	\$ 48,853,678	\$	47,931,545	\$	49,480,669	\$	51,462,300	\$	52,821,083	\$	53,893,720	\$	54,371,55
GR General Fees	\$ 3,164,838	\$	3,082,215	\$	3,246,088	\$	3,311,010	\$	3,377,230	\$	3,444,775	\$	3,513,67
State Support	\$ 64,289,270	\$	66,055,952	\$	66,716,512	\$	66,716,512	\$	66,716,512		66,716,512	\$	66,716,51
Investment Income	\$ 6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,00
Other Student Charges	\$ 2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,50
All other Revenue	\$ 1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,25
Total Revenue Sources	\$382,432,760		6,894,915	- · ·	373,575,493	<u> </u>	375,351,516	<u> </u>	374,979,951		379,424,141	<u> </u>	78,191,391
Expense	+///-	+++		- T -		- T -		- T		+-		- T -	
Salaries	\$ 203,664,513	\$ 2	203,664,513	\$	205,266,493	\$	209,689,960	\$	214,211,262	\$	218,832,932	\$	223,557,188
Budgeted Divisional Salary & Benefit Vacancy	\$ (11,613,980)		(11,613,980)		(6,097,086)	\$	(6,097,086)	\$	(6,097,086)		(6,097,086)	\$	(6,097,086
Promotion & Tenure and Market Adjustments	\$ 1,383,625	\$	1,383,625	\$	391,298	\$	399,123	\$	407,106		415,248	\$	423,553
Health Care	\$ 30,207,100		30,207,101		33,250,297	\$	34,520,054	\$	35,842,074		37,218,477	\$	38,651,469
Other Benefits	\$ 40,503,025		40,503,025		40,121,401	\$	40,558,399	\$	41,000,683		41,448,322	\$	41,901,390
Utilities	\$ 13,360,064		13,360,064	۹ \$	13,760,866	₽ \$	14,173,692	₽ \$		₽ \$	15,036,870	۹ \$	15,487,976
Non-Personnel Expenses	\$ 32,912,795	₽ \$		۹ \$	35,395,586	₽ \$	36,103,497	₽ \$	36,825,567		37,562,079	۹ \$	38,313,320
•			5,480,000	ې \$				· ·				₽ \$	
Capital Expense	\$ 5,480,000	\$			5,480,000	\$	5,480,000	\$	5,480,000	\$	5,480,000		5,480,000
Other Transfers	\$ 7,669,033	\$	8,984,320	\$	7,434,045	\$	7,434,045	\$	7,434,045	\$	7,434,045	\$	7,434,045
Debt Service	\$ 6,779,323	\$	6,779,323	\$	7,117,581	\$	7,112,037	\$	7,089,348	\$	7,090,636	\$	6,908,077
General Fee Allocation	\$ 51,876,802	-	50,872,043	\$	52,730,283	\$	54,776,835	\$	56,201,838	\$	57,342,020	\$	57,888,75
Sub-Total Expense	\$ 382,222,299		382,532,829	\$	394,850,764	\$	404,150,557	\$	412,993,740	\$	421,763,544	\$	429,948,68
Non Academic Affairs Commitments & Investments	\$ 3,872,204	\$	3,872,204	\$	-	\$	-	\$	-	\$	-	\$	-
Total Expense	\$386,094,503		6,405,033		394,850,764	<u> </u>	104,150,557		412,993,740		121,763,544		29,948,683
Surplus / (Deficit) before Adjustments	\$ (3,661,744)	_	9,510,118)	Ş	(21,275,271)	<b>\$</b>	(28,799,041)	\$	(38,013,789)	<b>\$</b> (	(42,339,404)	<b>\$</b>	[ <b>51,757,29</b> 1
Administrative Productivity Savings	\$2,596,808		\$2,596,808		\$9,069,868		\$10,242,694		\$10,645,529		\$11,868,917		\$11,868,91
Provost Offices Productivity Savings	\$490,411		\$490,411		\$3,338,451		\$3,338,451		\$3,338,451		\$3,338,451		\$3,338,45
Academic Dean's Offices Productivity Savings	\$207,462		\$207,462		\$1,412,286		\$1,412,286		\$1,412,286		\$1,412,286		\$1,412,28
Auxiliary Productivity Savings	\$610,429		\$610,429		\$2,677,090		\$3,957,705		\$4,596,121		\$5,232,901		\$5,232,90
One-Time Severance Pay					(\$250,000)								
Scholarship Offsets from Fundraising			\$0		\$1,181,225		\$2,241,065		\$3,331,385		\$4,500,000		\$5,668,61
Net Revenue Initiative Targest			\$0		\$0		\$4,777,288		\$11,744,219		\$13,999,447		\$16,741,26
Administrative Vacancy & Benefits (Capital Spending)	\$5,000,000		\$5,000,000		\$5,000,000		\$5,000,000		\$5,000,000		\$5,000,000		\$5,000,00
Academic Vacancy & Benefits (\$30.4 million)	\$0		\$0		\$0		\$0		\$0		\$0		\$
, , ,		1	\$2,500,000		\$2,500,000		\$2,500,000		\$2,500,000		\$2,500,000		\$2,500,00
Redirect Classroom Enhancement													
Redirect Classroom Enhancement Prior Savings Brought Forward	\$2,500,000		<i>42,500,000</i>		φ2,300,000		\$0		\$0		\$0		1 / /

Oxford Campus Long Range Model A	ssumptions	s - Goal Se	eek to \$64	4M NIR C	lass 2%	Incremer	t
	FY2020	FY2020					
	Budget	Proj	FY2021	FY2022	FY2023	FY2024	FY2025
Enrollment							
First Time Incoming Class Size	4,202	4,231	4,403	4,342	4,273	4,213	4,150
First Time Nursing Cohort Incoming Class Size	98	89	80	80	80	80	80
First Time Students from China	79	79	79	79	79	79	79
Total First Time Incoming Class Size	4,300	4,320	4,483	4,422	4,353	4,293	4,230
% Non Resident	41.0%	40.8%	40.8%	40.8%	40.9%	40.9%	40.9%
Relocate Incoming Class Size	178	159	159	159	159	159	159
Transfer Incoming Class Size	175	199	199	199	199	199	199
ACE Incoming Class Size	105	107	105	105	105	105	105
Total Undergraduate Enrollment	17,231	16,919	17,170	17,688	17,870	17,897	17,716
Overall Non Resident Percentage	43.5%	43.1%	41.7%	40.9%	40.8%	40.8%	40.8%
First Time Cohort Retention Rates:							
Term 1 to Term 3	91.7%	87.2%	87.2%	87.2%	87.2%	87.2%	87.2%
Term 1 to Term 5	82.3%	79.0%	79.0%	79.0%	79.0%		79.0%
Term 1 to Term 7	81.5%	76.2%	76.2%	76.2%	76.2%	76.2%	76.2%
Revenue	01.570	70.270	70.270	70.270	70.270	70.270	70.270
UG Tuition Promise New Cohort - Non-Resident	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Tuition Promise New Cohort - Resident							2.0%
OG TURION FIONISE NEW CONOR - Resident	4.0%	3.5%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Continuing Students - Non-Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Continuing Students - Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Cohort Discount Rate Growth	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Cross Campus Activity	\$5.7M	\$5.0M	\$5.0M	\$5.0M	\$5.0M	\$5.0M	\$5.0M
GR Students - Non-Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GR Students - Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
State Support	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
Investment Income	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M
Other Student Charges & Other Revenue	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Expense	010 / 0	010 /0	01070	01070	01070	01070	01070
Salary & Benefit Increment	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Health Care Trend	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Salary Equity & Benefits	\$1.4M	\$1.4M	0.0%	0.0%	0.0%	0.0%	0.0%
University Advancement Campaign Support	\$2.6M	\$2.6M	0.0%	0.0%	0.0%	0.0%	0.0%
Budgeted Vacancy to Balance Divisional Budgets	(\$11.6M)			(\$13.6M)			
		(\$11.6M)	(\$13.6M)		(\$13.6M)	(\$13.6M)	(\$13.6M)
Utilities Trend	0.0%	0.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Support Expense Inflation	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Productivity & Reallocation & Initiatives	4 50/	4 50/	4 504	4 504	4 504	4 50/	0.00/
Administrative Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Provost Offices Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Academic Dean's Offices Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Auxiliary Productivity Savings	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	0.0%
Scholarship Offsets from Fundraising	\$99K	\$99K	\$1.2M	\$2.2M	\$3.3M	\$4.5M	\$4.5M
Net Revenue Initiative Targest	0.0%	0.0%	0.0%	\$4.8M	\$11.7M	\$14M	\$14M
Academic Reallocation Assessment	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.0%

	FY20 Budget	FY 20	20 Proj		FY 2021		FY 2022		FY 2023		FY 2024		FY 2025
Revenue													
Undergraduate Net Instructional Revenue													
UG Total Instructional Fee	\$ 366,661,132		3,792,684	\$	370,172,413	\$	385,579,676	\$	398,356,895	\$	406,753,930	\$	407,963,946
Incoming Class Instructional Fee	\$ 99,358,542		3,488,805	\$	103,841,861	\$	104,656,103	\$	105,286,547	\$	106,070,560	\$	106,797,682
Incoming Class Base Financial Aid	\$ 29,714,122		9,843,838	\$	38,594,183	\$	39,353,157	\$	40,017,238	\$	40,753,971	\$	41,458,392
Increased Price Incoming Class Financial Aid	\$ 1,199,409		1,119,529	\$	771,884	\$	787,063	\$	800,345	\$	815,079	\$	829,168
Increased Discount Incoming Class	\$ 4,657,420		5,821,514	\$	492,579	\$	467,186	\$	469,312	\$	465,508	\$	468,032
Incoming Class Net Instructional Revenue	\$ 63,787,590	\$ 61	1,703,924	\$	63,983,215	\$	64,048,697	\$	63,999,652	\$	64,036,001	\$	64,042,091
Change in Incoming Class Net Instructional Revenue				\$	2,279,291	\$	65,482	\$	(49,045)	\$	36,349	\$	6,089
Returning Student Instructional Fee	\$ 267,302,590		),303,878	\$	266,330,552	\$	280,923,573	\$	293,070,347	\$	300,683,371	\$	301,166,263
Returning Student Financial Aid	\$ 80,891,569	\$80	0,097,738	\$	92,633,848	\$	107,624,743	\$	121,582,140	\$	126,124,410	\$	128,458,521
Returning Student Net Instructional Revenue	\$ 186,411,021	\$ 180	),206,140	\$	173,696,704	\$	173,298,830	\$	171,488,207	\$	174,558,961	\$	172,707,742
UG Total Net Instructional Revenue	\$250,198,611	\$241,	910,065	\$2	37,679,919	\$2	237,347,527	\$2	235,487,859	\$2	238,594,962	\$2	236,749,833
Graduate Net Instructional Revenue													
GR Total Instructional Fee	\$ 29,159,317	\$ 28	3,848,767	\$	29,976,439	\$	30,443,425	\$	30,919,750	\$	31,538,145	\$	32,033,714
GR Total Financial Aid	\$ 24,133,713	\$ 21	1,834,387	\$	24,424,892	\$	24,830,015	\$	25,243,241	\$	25,664,731	\$	26,094,651
GR Total Net Instructional Revenue	\$ 5,025,604	-	7,014,380	\$	5,551,547	\$	5,613,409	\$	5,676,509	\$	5,873,414	\$	5,939,063
Total Net Instructional Revenue							, , ,		, , ,		, , , ,		,,
Total Instructional Fee	\$ 395,820,449	\$ 387	7,641,451	\$	400,148,852	\$	416,023,101	\$	429,276,645	\$	438,292,075	\$	439,997,660
Total Financial Aid	\$ 140,596,233	\$ 138	3,717,006	\$	156,917,386	\$	173,062,165	\$	188,112,276	\$	193,823,699	\$	197,308,764
Total Net Instructional Revenue	\$ 255,224,216		3,924,445	\$	243,231,465	\$	242,960,937	\$	241,164,368	\$	244,468,376	\$	242,688,896
Other Student Revenue													
UG General Fees	\$ 48,853,678		7,931,545	\$	49,480,669	\$	51,462,300	\$	52,821,083	\$	53,893,720	\$	54,371,555
GR General Fees	\$ 3,164,838	\$ 3	3,082,215	\$	3,246,088	\$	3,311,010	\$	3,377,230	\$		\$	3,513,670
State Support	\$ 64,289,270	\$ 66	5,055,952	\$	66,716,512	\$	66,716,512	\$	66,716,512	\$	66,716,512	\$	66,716,512
Investment Income	\$ 6,390,000	\$ 6	5,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000
Other Student Charges	\$ 2,676,500	\$ 2	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500
All other Revenue	\$ 1,834,258	\$ 1	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258
Total Revenue Sources	\$382,432,760	\$376,	894,915	\$3	73,575,493	\$3	375,351,516	\$3	374,979,951	\$3	379,424,141	\$3	378,191,391
Expense													
Salaries	\$ 203,664,513	\$ 203	3,664,513	\$	201,303,482	\$	201,687,107	\$	205,951,900	\$	210,387,438	\$	214,922,930
Budgeted Divisional Salary & Benefit Vacancy	\$ (11,613,980)		1,613,980)		(6,097,086)		(6,097,086)		(6,097,086)		(6,097,086)		(6,097,086
Promotion & Tenure and Market Adjustments	\$ 1,383,625		1,383,625			\$	383,625	\$	391,298		399,123		407,106
Health Care	\$ 30,207,100		0,207,101		32,663,966	\$	33,321,052	\$	34,604,155	\$	35,928,066	\$	37,306,407
Other Benefits					39,361,716	₽ \$	39,400,308	· ·	40,200,129		40,637,932	\$	
				\$				\$		\$			41,081,028
Utilities	\$ 13,360,064		3,360,064		13,760,866	\$	14,173,692	\$	14,598,903		15,036,870	\$	15,487,976
Non-Personnel Expenses	\$ 32,912,795		2,912,795		35,395,586	\$	36,103,497	\$	36,825,567		37,562,079	\$	38,313,320
Capital Expense	\$ 5,480,000		5,480,000	\$	5,480,000	\$	5,480,000	\$	5,480,000	\$	5,480,000	\$	5,480,000
Other Transfers	\$ 7,669,033	\$ 8	3,984,320	\$	7,434,045	\$	7,434,045	\$	7,434,045	\$	7,434,045	\$	7,434,045
Debt Service	\$ 6,779,323	\$ 6	5,779,323	\$	7,117,581	\$	7,112,037	\$	7,089,348	\$	7,090,636	\$	6,908,077
General Fee Allocation	\$ 51,876,802	\$ 50	0,872,043	\$	52,730,283	\$	54,776,835	\$	56,201,838	\$	57,342,020	\$	57,888,751
Sub-Total Expense	\$ 382,222,299	\$ 382	2,532,829	\$	389,534,064	\$	393,775,111	\$	402,680,096	\$	411,201,124	\$	419,132,554
Non Academic Affairs Commitments & Investments	\$ 3,872,204	\$ 3	3,872,204	\$	-	\$	-	\$	-	\$	-	\$	-
Total Expense	\$386,094,503	\$386,	405,033	\$3	89,534,064	\$3	393,775,111	\$4	402,680,096	\$4	411,201,124	\$4	19,132,554
Surplus / (Deficit) before Adjustments	\$ (3,661,744)	\$ (9,	510,118)	\$(	(15,958,571)	\$	(18,423,595)	\$	(27,700,145)	\$	(31,776,983)	\$	(40,941,163
Administrative Productivity Savings	\$2,596,808	\$2	2,596,808		\$9,069,868		\$10,242,694		\$10,645,529		\$11,868,917		\$11,868,917
Provost Offices Productivity Savings	\$490,411		\$490,411		\$3,338,451		\$3,338,451		\$3,338,451		\$3,338,451		\$3,338,451
Academic Dean's Offices Productivity Savings	\$207,462		\$207,462		\$1,412,286		\$1,412,286		\$1,412,286		\$1,412,286		\$1,412,286
Auxiliary Productivity Savings	\$610,429		\$610,429		\$2,677,090		\$3,957,705		\$4,596,121		\$5,232,901		\$5,232,901
	φ010, <del>1</del> 29		4010, <del>4</del> 29				701,105,04		דדו'ייני'יילי		#J,232,901		01,232,901
One-Time Severence Pay			+0		(\$250,000)		40 044 0CT		40.004.005		#4 E00 000		AF (20 (1)
Scholarship Offsets from Fundraising			\$0		\$1,181,225		\$2,241,065		\$3,331,385		\$4,500,000		\$5,668,615
Net Revenue Initiative Targest			\$0		\$0		\$4,777,288		\$11,744,219		\$13,999,447		\$16,141,265
Administrative Vacancy & Benefits (Capital Spending)	\$5,000,000	\$5	5,000,000		\$5,000,000		\$0		\$0		\$0		\$0
Academic Vacancy & Benefits (\$30.4 million)	\$0		\$0		\$0		\$0		\$0		\$0		\$0
Redirect Classroom Enhancement	\$2,500,000	\$2	2,500,000		\$2,500,000		\$0		\$0		\$0		\$0
Neurieu Classiooni Ennancement	\$2,500,000	φ.	-//		1 / /								
Prior Savings Brought Forward Surplus/(Deficit) after Adjustments	\$2,500,000	φ-				_	\$0		\$0		\$0		

	FY2020	FY2020					
	Budget	Proj	FY2021	FY2022	FY2023	FY2024	FY2025
Enrollment							
First Time Incoming Class Size	4,202	4,231	4,403	4,342	4,273	4,213	4,150
First Time Nursing Cohort Incoming Class Size	98	89	80	80	80	80	80
First Time Students from China	79	79	79	79	79	79	79
Total First Time Incoming Class Size	4,300	4,320	4,483	4,422	4,353	4,293	4,230
% Non Resident	41.0%	40.8%	40.8%	40.8%	40.9%	40.9%	40.9%
Relocate Incoming Class Size	178	159	159	159	159	159	159
Transfer Incoming Class Size	175	199	199	199	199	199	199
ACE Incoming Class Size	105	107	105	105	105	105	105
Total Undergraduate Enrollment	17,231	16,919	17,170	17,688	17,870	17,897	17,716
Overall Non Resident Percentage	43.5%	43.1%	41.7%	40.9%	40.8%	40.8%	40.8%
First Time Cohort Retention Rates:							
Term 1 to Term 3	91.7%	87.2%	87.2%	87.2%	87.2%	87.2%	87.2%
Term 1 to Term 5	82.3%	79.0%	79.0%	79.0%	79.0%	79.0%	79.0%
Term 1 to Term 7	81.5%	76.2%	76.2%	76.2%	76.2%	76.2%	76.2%
Revenue							
UG Tuition Promise New Cohort - Non-Resident	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Tuition Promise New Cohort - Resident	4.0%	3.5%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Continuing Students - Non-Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Continuing Students - Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Cohort Discount Rate Growth	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Cross Campus Activity	\$5.7M	\$5.0M	\$5.0M	\$5.0M	\$5.0M	\$5.0M	\$5.0M
GR Students - Non-Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GR Students - Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
State Support	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
Investment Income	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M
Other Student Charges & Other Revenue	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Expense							
Salary & Benefit Increment	2.0%	2.0%	0.0%	0.0%	2.0%	2.0%	2.0%
Health Care Trend	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Salary Equity & Benefits	\$1.4M	\$1.4M	0.0%	0.0%	0.0%	0.0%	0.0%
University Advancement Campaign Support	\$2.6M	\$2.6M	0.0%	0.0%	0.0%	0.0%	0.0%
Budgeted Vacancy to Balance Divisional Budgets	(\$11.6M)	(\$11.6M)	(\$6.1M)	(\$6.1M)	(\$6.1M)	(\$6.1M)	(\$6.1M)
Utilities Trend	0.0%	0.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Support Expense Inflation	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Productivity & Reallocation & Initiatives							
Administrative Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Provost Offices Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Academic Dean's Offices Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Auxiliary Productivity Savings	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	0.0%
Scholarship Offsets from Fundraising	\$99K	\$99K	\$1.2M	\$2.2M	\$3.3M	\$4.5M	\$4.5M
Net Revenue Initiative Targest	0.0%	0.0%	0.0%	\$4.8M	\$11.7M	\$14M	\$14M
Academic Reallocation Assessment	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.0%

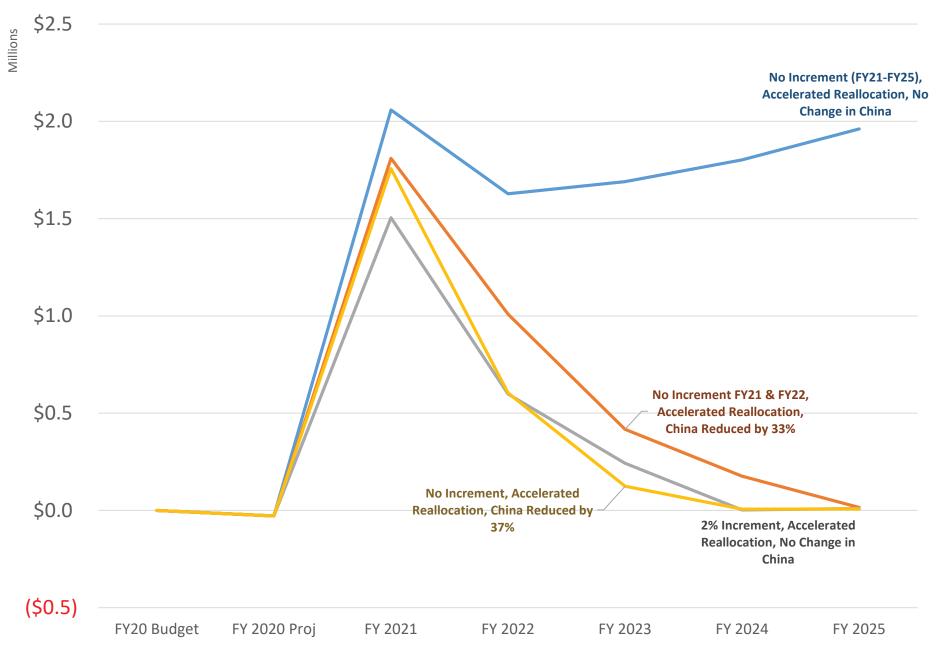
Revenue	FY20 Budget	FY 202	0 Proj		FY 2021		FY 2022		FY 2023	_	FY 2024		FY 2025
Undergraduate Net Instructional Revenue													
UG Total Instructional Fee	\$ 366,661,132	\$ 358,	792,684	\$	360,151,390	\$	366,312,438	\$	370,934,446	\$	371,918,784	\$	372,049,722
Incoming Class Instructional Fee	\$ 99,358,542		488,805	<u></u> \$	93,820,839	<u>₹</u>	94,514,174	<u></u> \$	95,241,444	<u>₹</u>	95,915,381	₹ \$	96,628,68
Incoming Class Base Financial Aid	\$ 29,714,122		843,838	₽ \$	36,024,104	₽ \$	36,648,433	₽ \$	37,352,368	₽ \$	38,013,449	э \$	38,717,022
Increased Price Incoming Class Financial Aid	\$ 1,199,409		119,529	Ф	720,482	э \$	732,969	₽ \$	747,047	э \$	760,269	э \$	774,340
Increased Discount Incoming Class	\$ 4,657,420		821,514	\$	379,015	\$	434,640	\$	437,653	\$	433,781	\$	436,662
Incoming Class Net Instructional Revenue	\$ 63,787,590		703,924	\$	56,697,238	\$	56,698,132	\$	56,704,376	\$	56,707,883	\$	56,700,663
Change in Incoming Class Net Instructional Revenue	+,,	+/		\$	(5,006,687)	\$	894	\$	6,244	\$	3,507	\$	(7,220
Returning Student Instructional Fee	\$ 267,302,590	\$ 260,	303,878	\$	266,330,552	\$	271,798,265	\$	275,693,002	\$	276,003,402	\$	275,421,034
Returning Student Financial Aid	\$ 80,891,569	\$ 80,	097,738	\$	92,633,848	\$	105,022,186	\$	116,430,193	\$	118,503,963	\$	120,751,693
Returning Student Net Instructional Revenue	\$ 186,411,021	\$ 180,	206,140	\$	173,696,704	\$	166,776,079	\$	159,262,809	\$	157,499,439	\$	154,669,341
UG Total Net Instructional Revenue	\$250,198,611	\$241,9	10.065	\$2	230,393,942	\$	223,474,211	\$2	215,967,184	\$2	214,207,322	\$2	211,370,004
Graduate Net Instructional Revenue	1 7 7 -					<u> </u>			-//	_	1 - 1 -		11
GR Total Instructional Fee	\$ 29,159,317	\$ 28,	848,767	\$	29,976,439	\$	30,443,425	\$	30,919,750	\$	31,538,145	\$	32,033,714
GR Total Financial Aid	\$ 24,133,713		834,387	\$	24,424,892	\$	24,830,015	\$	25,243,241	\$	25,664,731	\$	26,094,651
GR Total Net Instructional Revenue	\$ 5,025,604		014,380	\$	5,551,547	\$	5,613,409	\$	5,676,509	\$	5,873,414	\$	5,939,063
Total Net Instructional Revenue	- 0,020,001	+ ''		Ψ	0,001,017	Ŷ	0,010,000	Ψ	3,0. 0,000	Ψ	5,5, 5, 11	Ψ	5,555,005
Total Instructional Fee	\$ 395,820,449	\$ 387,	641,451	\$	390,127,829	\$	396,755,863	\$	401,854,196	\$	403,456,929	\$	404,083,435
Total Financial Aid	\$ 140,596,233		717,006	э \$	154,182,341	э \$	167,668,243	₽ \$	180,210,503	э \$	183,376,192	₽ \$	186,774,368
Total Net Instructional Revenue	\$ 255,224,216		924,445	<u></u> \$	235,945,488	<u></u> \$	229,087,620	<u>₹</u>	221,643,693	<u></u> \$	220,080,736	<u></u>	217,309,068
	\$ 255,224,210	<u></u> р 240,	924,445	₽	233,943,400	Þ	229,067,020	₽	221,043,093	Þ	220,000,730	₽	217,309,000
Other Student Revenue													
UG General Fees	\$ 48,853,678		931,545	\$	48,291,522	\$	49,188,114	\$	49,582,451	\$	49,774,087	\$	50,138,504
GR General Fees	\$ 3,164,838	\$3,	082,215	\$	3,246,088	\$	3,311,010	\$	3,377,230	\$	3,444,775	\$	3,513,670
State Support	\$ 64,289,270	\$ 66,	055,952	\$	66,716,512	\$	66,716,512	\$	66,716,512	\$	66,716,512	\$	66,716,512
Investment Income	\$ 6,390,000	\$ 6,	390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000	\$	6,390,000
Other Student Charges	\$ 2,676,500	\$ 2,	676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500	\$	2,676,500
All other Revenue	\$ 1,834,258	\$ 1,	834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258	\$	1,834,258
Total Revenue Sources	\$382,432,760	\$376,8	94,915	\$3	865,100,369	\$	359,204,013	\$3	352,220,645	\$3	350,916,868	\$3	848,578,511
Expense													
Salaries	\$ 203,664,513	\$ 203,	664.513	\$	201,303,482	\$	201.687.107	\$	202,070,732	\$	202,454,357	\$	202.837.982
Budgeted Divisional Salary & Benefit Vacancy	\$ (11,613,980)		613,980)	\$	(6,097,086)	\$	(6,097,086)	\$	(6,097,086)	\$	(6,097,086)	\$	(6,097,086
Promotion & Tenure and Market Adjustments	\$ 1,383,625		383,625	\$	383,625	\$	383,625	\$	383,625	\$	383,625	\$	383,625
Health Care	\$ 30,207,100			\$	32,663,966	\$	33,321,052	\$	33,991,278	\$	34,674,909	\$	35,372,213
Other Benefits	\$ 40,503,025			\$	39,361,716	\$	39,400,308	\$	39,438,900	\$	39,477,492	\$	39,516,083
Utilities	\$ 13,360,064			\$	13,760,866	\$	14,173,692	\$	14,598,903	\$	15,036,870	\$	15,487,976
Non-Personnel Expenses	\$ 32,912,795		912,795	\$	35,395,586	\$	36,103,497	\$	36,825,567	\$	37,562,079	\$	38,313,320
•				э \$		э \$		₽ \$		э \$		э \$	
Capital Expense		1 .1	480,000		5,480,000		5,480,000		5,480,000		5,480,000		5,480,000
Other Transfers	\$ 7,669,033		984,320	\$	7,434,045	\$	7,434,045	\$	7,434,045	\$	7,434,045	\$	7,434,045
Debt Service	\$ 6,779,323		779,323	\$	7,117,581	\$	7,112,037	\$	7,089,348	\$	7,090,636	\$	6,908,077
General Fee Allocation	\$ 51,876,802		872,043	\$	51,541,136	\$	52,502,649	\$	52,963,207	\$	53,222,387	\$	53,655,699
Sub-Total Expense	\$ 382,222,299		532,829	\$	388,344,917	\$	391,500,925	\$	394,178,518	\$	396,719,313	\$	399,291,935
Non Academic Affairs Commitments & Investments	\$ 3,872,204		872,204	\$	-	\$	-	\$	-	\$	-	\$	-
Total Expense	\$386,094,503	\$386,4	05,033	\$3	88,344,917	\$	391,500,925	\$3	394,178,518	\$3	396,719,313	\$3	899,291,935
Surplus / (Deficit) before Adjustments	\$ (3,661,744)	\$ (9,5	10,118)	\$(	(23,244,548)	\$	(32,296,912)	\$	(41,957,874)	\$	(45,802,446)	\$	(50,713,423
Administrative Productivity Savings	\$2,596,808	\$2,	596,808		\$9,069,868		\$10,242,694		\$10,645,529		\$11,868,917		\$11,868,917
Provost Offices Productivity Savings	\$490,411	\$	490,411		\$3,338,451		\$3,338,451		\$3,338,451		\$3,338,451		\$3,338,451
Academic Dean's Offices Productivity Savings	\$207,462	\$	207,462		\$1,412,286		\$1,412,286		\$1,412,286		\$1,412,286		\$1,412,286
Auxiliary Productivity Savings	\$610,429		610,429		\$2,677,090		\$3,957,705		\$4,596,121		\$5,232,901		\$5,232,901
One-Time Severance Pay	2010/125	4	,		(\$250,000)				+ .,		+=,_52,501		++,_02,501
Scholarship Offsets from Fundraising			\$0		\$1,181,225		\$2,241,065		\$3,331,385		\$4,500,000		\$5,668,615
Net Revenue Initiative Targest													
5	¢E 000 000	+F -	\$0		\$0 ¢E 000 000		\$4,777,288		\$11,744,219		\$13,999,447		\$16,141,265
Administrative Vacancy & Benefits (Capital Spending)	\$5,000,000	\$5,	000,000		\$5,000,000		\$5,000,000		\$5,000,000		\$5,000,000		\$5,000,000
	\$0		\$0		\$0		\$0		\$0		\$0		\$0
· · · · ·	1.1		1.1		1.5		1		1		1.0.00		1
Academic Vacancy & Benefits (\$30.4 million) Redirect Classroom Enhancement	\$2,500,000	\$2,	500,000		\$2,500,000		\$2,500,000		\$2,500,000		\$2,500,000		\$2,500,000
· · · · ·	1.1		1.1		1.5		\$2,500,000 \$0 <b>\$1,172,576</b>		\$2,500,000 \$0 <b>\$610,116</b>		\$2,500,000 \$0 <b>\$2,049,555</b>		\$2,500,000

Oxford Campus Long Range Model Assump			30.7M N	IR CIdSS	NO THCLE	ment, NO	Capital
	FY2020 Budget	FY2020 Proj	FY2021	FY2022	FY2023	FY2024	FY2025
Enrollment	Dudget		112021	112022	112025	112024	112023
First Time Incoming Class Size	4,202	4,231	4,084	4,027	3,972	3,915	3,861
First Time Nursing Cohort Incoming Class Size	98	89	80	80	80	80	80
First Time Students from China	79	79	79	79	79	79	79
Total First Time Incoming Class Size	4,300	4,320	4,164	4,107	4,052	3,995	3,941
% Non Resident	41.0%	40.8%			40.9%	41.0%	41.0%
Relocate Incoming Class Size	178	159	159	159	159	159	159
Transfer Incoming Class Size	175	199	199	199	199	199	199
ACE Incoming Class Size	105	107	0	0	0	0	0
Total Undergraduate Enrollment	17,231	16,919	16,746	16,890	16,754	16,477	16,269
Overall Non Resident Percentage	43.5%	43.1%			39.9%	39.5%	39.4%
First Time Cohort Retention Rates:	TJ.J 70	TJ.170	71.770	70.270	39.970	59.570	39.77
Term 1 to Term 3	91.7%	87.2%	87.2%	87.2%	87.2%	87.2%	87.2%
Term 1 to Term 5	82.3%	79.0%			79.0%	79.0%	79.0%
Term 1 to Term 7	81.5%	76.2%	76.2%	76.2%	76.2%	76.2%	76.2%
Revenue	2.00/	2.00/	2.00/	2.00/	2.00/	2.00/	2.00/
UG Tuition Promise New Cohort - Non-Resident	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Tuition Promise New Cohort - Resident	4.0%	3.5%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Continuing Students - Non-Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Continuing Students - Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
UG Cohort Discount Rate Growth	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Cross Campus Activity	\$5.7M	\$5.0M	\$5.0M	\$5.0M	\$5.0M	\$5.0M	\$5.0M
GR Students - Non-Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GR Students - Resident	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
State Support	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
Investment Income							
Other Student Charges & Other Revenue	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Expense	2.00/	2.00/	0.00/	0.00/	0.00/	0.00/	0.00/
Salary & Benefit Increment	2.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Health Care Trend	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Salary Equity & Benefits	\$1.4M	\$1.4M	0.0%	0.0%	0.0%	0.0%	0.0%
University Advancement Campaign Support	\$2.6M	\$2.6M	0.0%	0.0%	0.0%	0.0%	0.0%
Budgeted Vacancy to Balance Divisional Budgets	(\$11.6M)	(\$11.6M)	(\$6.1M)	(\$6.1M)	(\$6.1M)	(\$6.1M)	(\$6.1M)
Utilities Trend	0.0%	0.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Support Expense Inflation	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Productivity & Reallocation & Initiatives							
Administrative Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Provost Offices Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Academic Dean's Offices Productivity Savings	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	-1.5%	0.0%
Auxiliary Productivity Savings	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	-2.0%	0.0%
Scholarship Offsets from Fundraising	\$99K	\$99K	\$1.2M	\$2.2M	\$3.3M	\$4.5M	\$4.5M
Net Revenue Initiative Targest	0.0%	0.0%	0.0%	\$4.8M	\$11.7M	\$14M	\$14M
Academic Reallocation Assessment	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.0%

Business Session Item 3d

# Regional Budget Model

#### **Regional Budget Forecast**



5	College of		d Applied Sciend		-		
Five year	budget forecast		ement, Accelera	ted Reallocatio	n		
		Projection					
	FY20	FY20	FY21	FY22	FY23	FY24	FY25
Revenue:							
UG Instructional Revenue							
Total UG Instructional Fee	\$32,868,843	\$32,376,019	\$32,226,654	\$31,767,519	\$31,730,053	\$32,260,437	\$33,039,755
Total UG Financial Aid	\$2,092,658	\$1,746,769	\$2,087,869	\$2,140,344	\$2,172,799	\$2,204,004	\$2,236,084
Total UG Net Instructional Revenue	\$30,776,185	\$30,629,251	\$30,138,785	\$29,627,175	\$29,557,254	\$30,056,432	\$30,803,671
Total GR Instructional Fee	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total GR Financial Aid	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total GR Net Instructional Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	1-	1.	1 -	1.5	1.5	1.5	1.5
Other Student Fees							
UG General Fees	\$1,545,291	\$1,553,608	\$1,545,562	\$1,544,852	\$1,566,421	\$1,610,434	\$1,664,515
GR General Fees	\$0	\$1,555,666	\$1,515,562	\$0	\$1,500,121	\$1,010,151	\$0
Other Student Fees	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200	\$0 \$274,200	\$274,200
State Share in Instruction	\$10,883,076	\$11,045,152	\$274,200	\$11,155,604	\$274,200	\$11,155,604	\$11,155,604
Other from State (PSEOP)	\$952,730	\$1,047,292	\$1,059,628	\$1,068,391	\$1,068,939	\$1,068,747	\$1,068,747
All Other Revenue	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902
Total Other Revenue	\$13,845,200	\$14,110,155	\$14,224,896	\$14,232,949	\$14,255,066	\$14,298,887	\$14,352,968
Total Revenue	\$44,621,385	\$44,739,405	\$44,363,681	\$43,860,123	\$43,812,320	\$44,355,320	\$45,156,639
Expenditures							
Salaries	\$26,945,035	\$26,945,035	\$27,824,809	\$28,423,388	\$29,034,235	\$29,657,263	\$30,292,715
Promotion & Tenure	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
Allowance for Unspent Salaries	(\$1,580,267)	(\$1,580,267)	(\$1,612,154)	(\$1,645,024)	(\$1,678,653)	(\$1,713,094)	(\$1,748,388)
Staff Benefits	\$5,310,096	\$5,310,096	\$5,547,208	\$5,674,030	\$5,803,503	\$5,935,552	\$6,070,228
Allowance for Unspent Benefits	(\$719,335)	(\$719,335)	(\$733,722)	(\$748,396)	(\$763,364)	(\$778,632)	(\$794,204)
Anticipated Benefit Redistribution	(\$281,250)	(\$281,250)	(\$210,938)	(\$158,203)	(\$118,652)	(\$88,989)	(\$66,742)
Healthcare	\$4,104,773	\$4,104,773	\$4,268,964	\$4,439,723	\$4,617,312	\$4,802,004	\$4,994,084
Operating Expense	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705
Utilities	\$1,029,000	\$1,029,000	\$1,049,580	\$1,070,572	\$1,091,983	\$1,113,823	\$1,136,099
Other Transfers	\$1,027,676	\$1,044,479	\$871,143	\$900,748	\$905,221	\$931,797	\$968,091
Debt Service	\$61,741	\$61,741	\$61,651	\$61,646	\$61,331	\$61,331	\$61,331
Branch Campus Indirect Charge	\$3,222,347	\$3,222,347	\$3,144,947	\$3,112,758	\$3,111,645	\$3,151,853	\$3,210,191
Subtotal Expenses	\$45,155,521	\$45,172,324	\$46,247,193	\$47,166,946	\$48,100,266	\$49,108,614	\$50,159,111
New commitments & investments	\$404,770	\$404,770	\$0	\$0	\$0	\$0	\$0
Total Expenditures	\$45,560,291	\$45,577,094	\$46,247,193	\$47,166,946	\$48,100,266	\$49,108,614	\$50,159,111
Surplus/(Deficit) before Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,883,512)	(\$3,306,823)	(\$4,287,946)	(\$4,753,294)	(\$5,002,472)
Transfer from Fund Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Surplus/(Deficit) after Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,883,512)	(\$3,306,823)	(\$4,287,946)	(\$4,753,294)	(\$5,002,472)
Sublease or Sell Greentree Health Science Academy	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Increase allowance for unspent salaries/benefits	\$288,136	\$288,136	\$298,856	\$309,636	\$320,615	\$351,471	\$556,625
Productivity	\$322,057	\$322,057	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,730
National Pathways Program (net of expense)	\$277,887	\$47,692	\$281,700	\$284,646	\$288,074	\$291,535	\$295,028
National Pathways Program General Fee	\$71,755	\$71,755	\$72,760	\$73,778	\$74,811	\$75,858	\$76,920
National Pathways Program General Fee Transfer	(\$71,755)	(\$71,755)	(\$72,760)	(\$73,778)	(\$74,811)	(\$75,858)	(\$76,920)
Increased Oxford Nursing Students (net of expense)	(\$286,942)	(\$346,250)	(\$225,319)	\$88,060	\$553,912	\$691,670	\$698,276
5 ( 1 )							\$950,817
Expand ELC program to Hamilton (net of expense)	\$222,966	\$460,437	\$555,//3	\$/2/,28/	\$864,841	\$912,657	220,011
	\$222,966 \$114,802	\$460,437 \$36,875	\$555,773 \$229,399	\$727,287 \$247,521	\$864,841 \$255,675	\$912,657 \$260,154	
Expand ELC program to Hamilton (net of expense) Early Childhood Education (net of expense) Total Opportunities	\$222,966 \$114,802 <b>\$938,906</b>	\$460,437 \$36,875 <b>\$808,946</b>	\$555,773 \$229,399 <b>\$3,388,139</b>	\$727,287 \$247,521 \$3,904,880	\$864,841 \$255,675 <b>\$4,530,847</b>	\$912,657 \$260,154 <b>\$4,755,217</b>	\$950,817 \$264,108 \$5,012,585

#### Miami University - Regionals College of Liberal Arts and Applied Science Five year budget forecast assumptions with 2% Increment, Accelerated Reallocation

The year budget forecast		FY20					
	FY20	Projection	FY21	FY22	FY23	FY24	FY25
Assumptions							ĺ
Continuing Student Instructional Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student Out of State Surcharge % Change	0.0%	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student General Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Tuition Promise Instructional Fee % Change	4.0%	3.5%	4.0%	4.0%	4.0%	4.0%	4.0%
Tuition Promise Out of State Surcharge % Change	0.0%	0.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Tuition Promise General Fee % Change	2.0%	2.0%	4.0%	4.0%	4.0%	4.0%	4.0%
ELC Contract Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Incoming Cohorts - Fall Only							
First Time	753	777	777	777	777	777	777
Transfer	211	204	204	204	204	204	204
Relocate	34	9	9	9	9	9	9
College Credit Plus	168	157	157	157	157	157	157
Other Non-ELC	3	8	8	8	8	8	8
ELC	150	149	149	149	149	149	149
Total Incoming Cohorts	1,319	1,304	1,304	1,304	1,304	1,304	1,304
Total Continuing Students	2,473	2,483	2,399	2,290	2,205	2,178	2,166
Total UG Students	3,792	3,787	3,703	3,594	3,509	3,482	3,470
State Share of Instruction	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
Cross Campus True Up	\$5,665,798	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Increment	2%	2%	2%	2%	2%	2%	2%
Healthcare	2%	2%	2%	2%	2%	2%	2%
Benefit Redistribution	-25%	-25%	-25%	-25%	-25%	-25%	-25%
Operating Expense	0%	0%	0%	0%	0%	0%	0%
Utilities	0%	0%	2%	2%	2%	2%	2%
Branch Campus Indirect Charge	7%	7%	7%	7%	7%	7%	7%

		University Liberal Arts and	- Regionals	се			
Five year budget forecas					n, Reduced Chi	na	
		Projection	,		,	-	
	FY20	FY20	FY21	FY22	FY23	FY24	FY25
Revenue:				· · · · · · · · · · · · · · · · · · ·			
UG Instructional Revenue							
Total UG Instructional Fee	\$32,868,843	\$32,376,019	\$32,015,818	\$31,438,156	\$31,437,394	\$32,008,267	\$32,828,464
Total UG Financial Aid	\$2,092,658	\$1,746,769	\$2,087,869	\$2,140,344	\$2,172,799	\$2,204,004	\$2,236,084
Total UG Net Instructional Revenue	\$30,776,185	\$30,629,251	\$29,927,949	\$29,297,812	\$29,264,595	\$29,804,263	\$30,592,380
Total GR Instructional Fee	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total GR Financial Aid	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total GR Net Instructional Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Student Fees							
UG General Fees	\$1,545,291	¢1 EE2 609	\$1,545,562	\$1,524,950	\$1,542,617	\$1,586,972	¢1 641 277
GR General Fees	\$1,545,291	\$1,553,608 \$0	\$1,545,562	\$1,524,950	\$1,542,617	\$1,586,972	\$1,641,377 \$0
Other Student Fees		1.1	1.1	1.5	1.5	1.5	1.1
	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200
State Share in Instruction	\$10,883,076	\$11,045,152	\$11,155,604	\$11,155,604	\$11,155,604	\$11,155,604	\$11,155,604
Other from State (PSEOP)	\$952,730	\$1,047,292	\$1,059,628	\$1,068,391	\$1,068,939	\$1,068,747	\$1,068,747
All Other Revenue	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902
Total Other Revenue	\$13,845,200	\$14,110,155	\$14,224,896	\$14,213,046	\$14,231,262	\$14,275,425	\$14,329,829
Total Revenue	\$44,621,385	\$44,739,405	\$44,152,845	\$43,510,859	\$43,495,857	\$44,079,687	\$44,922,209
Expenditures							
Salaries	\$26,945,035	\$26,945,035	\$27,270,823	\$27,303,497	\$27,891,946	\$28,492,128	\$29,104,277
Promotion & Tenure	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
Allowance for Unspent Salaries	(\$1,580,267)	(\$1,580,267)	(\$1,574,786)	(\$1,569,540)		(\$1,634,561)	
Staff Benefits	\$5,310,096	\$5,310,096	\$5,435,521	\$5,448,101	(\$1,601,660) \$5,573,055	\$5,700,495	(\$1,668,284) \$5,830,470
Allowance for Unspent Benefits							
Anticipated Benefit Redistribution	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335)	(\$733,722)	(\$748,396)	(\$763,364
-	(\$281,250)	(\$281,250)	(\$210,938)	(\$158,203)	(\$118,652)	(\$88,989)	(\$66,742
Healthcare	\$4,104,773	\$4,104,773	\$4,186,869	\$4,270,606	\$4,441,430	\$4,619,088	\$4,803,851
Operating Expense	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705
Utilities	\$1,029,000	\$1,029,000	\$1,049,580	\$1,070,572	\$1,091,983	\$1,113,823	\$1,136,099
Other Transfers	\$1,027,676	\$1,044,479	\$888,197	\$915,296	\$916,557	\$944,177	\$981,512
Debt Service	\$61,741	\$61,741	\$61,651	\$61,646	\$61,331	\$61,331	\$61,331
Branch Campus Indirect Charge	\$3,222,347	\$ <u>3,222,347</u>	\$3,130,189	\$3,088,310	\$ <u>3,089,493</u>	\$3,132,559	\$3,193,781
Subtotal Expenses	\$45,155,521	\$45,172,324	\$45,553,477	\$45,746,653	\$46,647,466	\$47,627,359	\$48,648,636
New commitments & investments	\$404,770	\$404,770	\$0	\$0	\$0	\$0	\$0
Total Expenditures	\$45,560,291	\$45,577,094	\$45,553,477	\$45,746,653	\$46,647,466	\$47,627,359	\$48,648,636
Surplus/(Deficit) before Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,400,631)	(\$2,235,794)	(\$3,151,609)	(\$3,547,672)	(\$3,726,427)
Transfer from Fund Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Surplus/(Deficit) after Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,400,631)	(\$2,235,794)	(\$3,151,609)	(\$3,547,672)	(\$3,726,427)
Sublease or Sell Greentree Health Science Academy	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Increase allowance for unspent salaries/benefits	\$288,136	\$288,136	\$298,856	\$309,636	\$320,615	\$331,471	\$336,625
Productivity	\$322,057	\$322,057	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,730
National Pathways Program (net of expense)	\$277,887	\$47,692	\$281,700	\$284,646	\$288,074	\$291,535	\$295,028
National Pathways Program General Fee	\$71,755	\$71,755	\$72,760	\$73,778	\$74,811	\$75,858	\$76,920
National Pathways Program General Fee Transfer	(\$71,755)	(\$71,755)	(\$72,760)	(\$73,778)	(\$74,811)	(\$75,858)	(\$76,920
Increased Oxford Nursing Students (net of expense)	(\$286,942)	(\$346,250)	(\$225,319)	\$88,060	\$553,912	\$691,670	\$698,276
Expand ELC program to Hamilton (net of expense)	\$222,966	\$460,437	\$377,815	\$67,237	(\$97,030)	(\$98,728)	(\$100,459
Early Childhood Education (net of expense)	\$114,802	\$36,875	\$229,399	\$247,521	\$255,675	\$260,154	\$264,108
Total Opportunities	\$938,906	\$808,946	\$3,210,181	\$3,244,830	\$3,568,976	\$3,723,832	\$3,741,308
Net Adjusted Surplus / (Deficit)	(\$0)	(\$28,742)	\$1,809,549	\$1,009,036	\$417,366	\$176,160	\$14,881

M	iami Univ	/ersity - R	egionals				
Colleg	ge of Libera	I Arts and A	pplied Scier	nce			
Five year budget forecast assumptions with	h No Increi	ment in FY2	1 & FY22, A	ccelerated	Reallocatio	n, Reduced	China
7 5 1		FY20	,			,	
	FY20	Projection	FY21	FY22	FY23	FY24	FY25
Assumptions		-					
Continuing Student Instructional Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student Out of State Surcharge % Change	0.0%	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student General Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Tuition Promise Instructional Fee % Change	4.0%	3.5%	4.0%	4.0%	4.0%	4.0%	4.0%
Tuition Promise Out of State Surcharge % Change	0.0%	0.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Tuition Promise General Fee % Change	2.0%	2.0%	4.0%	4.0%	4.0%	4.0%	4.0%
ELC Contract Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Incoming Cohorts - Fall Only							
First Time	753	777	777	777	777	777	777
Transfer	211	204	204	204	204	204	204
Relocate	34	9	9	9	9	9	9
College Credit Plus	168	157	157	157	157	157	157
Other Non-ELC	3	8	8	8	8	8	8
ELC	150	149	100	115	115	115	115
Total Incoming Cohorts	1,319	1,304	1,255	1,270	1,270	1,270	1,270
Total Continuing Students	2,473	2,483	2,399	2,244	2,149	2,123	2,115
Total UG Students	3,792	3,787	3,654	3,514	3,419	3,393	3,385
State Share of Instruction	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
Cross Campus True Up	\$5,665,798	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Increment	2%	2%	0%	0%	2%	2%	2%
Healthcare	2%	2%	2%	2%	2%	2%	2%
Benefit Redistribution	-25%	-25%	-25%	-25%	-25%	-25%	-25%
Operating Expense	0%	0%	0%	0%	0%	0%	0%
Utilities	0%	0%	2%	2%	2%	2%	2%
Branch Campus Indirect Charge	7%	7%	7%	7%	7%	7%	7%

Five vea	r budget forecas		d Applied Science ment, Accelera		n		
	<b>_</b>	Projection	,				
	FY20	FY20	FY21	FY22	FY23	FY24	FY25
Revenue:		-					
UG Instructional Revenue							
Total UG Instructional Fee	\$32,868,843	\$32,376,019	\$32,091,871	\$31,393,555	\$31,033,303	\$31,173,763	\$31,516,760
Total UG Financial Aid	\$2,092,658	\$1,746,769	\$2,087,869	\$2,140,344	\$2,172,799	\$2,204,004	\$2,236,084
Total UG Net Instructional Revenue	\$30,776,185	\$30,629,251	\$30,004,003	\$29,253,210	\$28,860,504	\$28,969,759	\$29,280,676
Total GR Instructional Fee	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total GR Financial Aid	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total GR Net Instructional Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0
							· · · ·
Other Student Fees							
UG General Fees	\$1,545,291	\$1,553,608	\$1,536,204	\$1,516,119	\$1,515,613	\$1,534,057	\$1,559,171
GR General Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Student Fees	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200
State Share in Instruction	\$10,883,076	\$11,045,152	\$11,155,604	\$11,155,604	\$11,155,604	\$11,155,604	\$11,155,604
Other from State (PSEOP)	\$952,730	\$1,047,292	\$1,059,628	\$1,068,391	\$1,068,939	\$1,068,747	\$1,068,747
All Other Revenue	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902
Total Other Revenue	\$13,845,200	\$14,110,155	\$14,215,538	\$14,204,215	\$14,204,258	\$14,222,509	\$14,247,624
Total Revenue	\$44,621,385	\$44,739,405	\$44,219,540	\$43,457,426	\$43,064,762	\$43,192,268	\$43,528,300
Expenditures							
Salaries	\$26,945,035	\$26,945,035	\$27,270,823	\$27,303,497	\$27,336,280	\$27,368,843	\$27,401,181
Promotion & Tenure	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
Allowance for Unspent Salaries	(\$1,580,267)	(\$1,580,267)	(\$1,574,786)	(\$1,569,540)	(\$1,564,292)	(\$1,559,077)	(\$1,553,923
Staff Benefits	\$5,310,096	\$5,310,096	\$5,435,521	\$5,448,101	\$5,460,722	\$5,473,259	\$5,485,709
Allowance for Unspent Benefits	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335
Anticipated Benefit Redistribution	(\$281,250)	(\$281,250)	(\$210,938)	(\$158,203)	(\$118,652)	(\$88,989)	(\$66,742
Healthcare	\$4,104,773	\$4,104,773	\$4,186,869	\$4,270,606	\$4,356,018	\$4,443,139	\$4,532,001
Operating Expense	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705
Utilities	\$1,029,000	\$1,029,000	\$1,049,580	\$1,070,572	\$1,091,983	\$1,113,823	\$1,136,099
Other Transfers	\$1,027,676	\$1,044,479	\$878,839	\$906,465	\$906,608	\$925,712	\$951,502
Debt Service	\$61,741	\$61,741	\$61,651	\$61,646	\$61,331	\$61,331	\$61,331
Branch Campus Indirect Charge	\$3,222,347	\$3,222,347	\$3,134,857	\$3,084,569	\$3,059,316	\$3,070,440	\$3,096,207
Subtotal Expenses	\$45,155,521	\$45,172,324	\$45,548,787	\$45,734,081	\$45,905,684	\$46,124,850	\$46,359,735
New commitments & investments	\$404,770	\$404,770	\$0	\$0	\$0	\$0	\$0
Total Expenditures	\$45,560,291	\$45,577,094	\$45,548,787	\$45,734,081	\$45,905,684	\$46,124,850	\$46,359,735
Surplus/(Deficit) before Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,329,247)	(\$2,276,656)	(\$2,840,922)	(\$2,932,582)	(\$2,831,435
Transfer from Fund Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Surplus/(Deficit) after Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,329,247)	(\$2,276,656)	(\$2,840,922)	(\$2,932,582)	(\$2,831,435
Sublease or Sell Greentree Health Science Academy	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Increase allowance for unspent salaries/benefits	\$288,136	\$288,136	\$298,856	\$309,636	\$320,615	\$331,471	\$336,625
Productivity	\$322,057	\$322,057	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,730
National Pathways Program (net of expense)	\$277,887	\$47,692	\$281,700	\$284,646	\$288,074	\$291,535	\$295,028
National Pathways Program General Fee	\$71,755	\$71,755	\$72,760	\$73,778	\$74,811	\$75,858	\$76,920
National Pathways Program General Fee Transfer	(\$71,755)	(\$71,755)	(\$72,760)	(\$73,778)	(\$74,811)	(\$75,858)	(\$76,920
Increased Oxford Nursing Students (net of expense)	(\$286,942)	(\$346,250)	(\$225,319)	\$88,060	\$553,912	\$691,670	\$698,276
Expand ELC program to Hamilton (net of expense)	\$222,966	\$460,437	\$555,773	\$727,287	\$864,841	\$912,657	\$950,817
Early Childhood Education (net of expense)	\$114,802	\$36,875	\$229,399	\$247,521	\$255,675	\$260,154	\$264,108
Total Opportunities	\$938,906	\$808,946	\$3,388,139	\$3,904,880	\$4,530,847	\$4,735,217	\$4,792,585
Net Adjusted Surplus / (Deficit)	(\$0)	(\$28,742)	\$2,058,892	\$1,628,224	\$1,689,925	\$1,802,636	\$1,961,150

#### Miami University - Regional Campuses College of Liberal Arts and Applied Science Five year budget forecast assumptions with No Increment, Accelerated Reallocation

, ,	FY20	FY20 Projection	FY21	FY22	FY23	FY24	FY25
Assumptions							
Continuing Student Instructional Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student Out of State Surcharge % Change	0.0%	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student General Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Tuition Promise Instructional Fee % Change	4.0%	3.5%	2.0%	2.0%	2.0%	2.0%	2.0%
Tuition Promise Out of State Surcharge % Change	0.0%	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Tuition Promise General Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
ELC Contract Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Incoming Cohorts - Fall Only							
First Time	753	777	777	777	777	777	777
Transfer	211	204	204	204	204	204	204
Relocate	34	9	9	9	9	9	9
College Credit Plus	168	157	157	157	157	157	157
Other Non-ELC	3	8	8	8	8	8	8
ELC	150	149	149	149	149	149	149
Total Incoming Cohorts	1,319	1,304	1,304	1,304	1,304	1,304	1,304
Total Continuing Students	2,473	2,483	2,399	2,290	2,205	2,178	2,166
Total UG Students	3,792	3,787	3,703	3,594	3,509	3,482	3,470
State Share of Instruction	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
Cross Campus True Up	\$5,665,798	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Increment	2%	2%	0%	0%	0%	0%	0%
Healthcare	2%	2%	2%	2%	2%	2%	2%
Benefit Redistribution	-25%	-25%	-25%	-25%	-25%	-25%	-25%
Operating Expense	0%	0%	0%	0%	0%	0%	0%
Utilities	0%	0%	2%	2%	2%	2%	2%
Branch Campus Indirect Charge	7%	7%	7%	7%	7%	7%	7%

Attachment B

#### Budget Planning SVP Creamer

			ional Campu d Applied Scien				
Five year budget fore					ed Reallocation		
		Projection		,			
	FY20	FY20	FY21	FY22	FY23	FY24	FY25
Revenue:							
UG Instructional Revenue							
Total UG Instructional Fee	\$32,868,843	\$32,376,019	\$31,766,171	\$30,532,217	\$29,813,092	\$29,751,411	\$30,019,52
Total UG Financial Aid	\$2,092,658	\$1,746,769	\$2,087,869	\$2,140,344	\$2,172,799	\$2,204,004	\$2,236,084
Total UG Net Instructional Revenue	\$30,776,185	\$30,629,251	\$29,678,302	\$28,391,873	\$27,640,293	\$27,547,407	\$27,783,436
Total GR Instructional Fee	\$0	\$0	\$0	\$0	\$0	\$0	\$
Total GR Financial Aid	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Total GR Net Instructional Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Other Student Fees							
UG General Fees	\$1,545,291	\$1,553,608	\$1,536,204	\$1,494,877	\$1,481,863	\$1,494,080	\$1,516,50
GR General Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$
Other Student Fees	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200	\$274,200	\$274,20
State Share in Instruction	\$10,883,076	\$11,045,152	\$11,155,604	\$11,155,604	\$11,155,604	\$11,155,604	\$11,155,60
Other from State (PSEOP)	\$952,730	\$1,047,292	\$1,059,628	\$1,068,391	\$1,068,939	\$1,068,747	\$1,068,74
All Other Revenue	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902	\$189,902
Total Other Revenue	\$13,845,200	\$14,110,155	\$14,215,538	\$14,182,974	\$14,170,508	\$14,182,533	\$14,204,962
Total Revenue	\$44,621,385	\$44,739,405	\$43,893,840	\$42,574,847	\$41,810,800	\$41,729,940	\$41,988,398
Expenditures	#2C 04E 02E	40C 04E 02E	¢27.270.022	407 202 407	417 22C 200	477 2C0 042	407 401 10
Salaries	\$26,945,035	\$26,945,035	\$27,270,823	\$27,303,497	\$27,336,280	\$27,368,843	\$27,401,18
Promotion & Tenure	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
Allowance for Unspent Salaries	(\$1,580,267)	(\$1,580,267)	(\$1,574,786)	(\$1,569,540)	(\$1,564,292)	(\$1,559,077)	(\$1,553,92
Staff Benefits	\$5,310,096	\$5,310,096	\$5,435,521	\$5,448,101	\$5,460,722	\$5,473,259	\$5,485,70
Allowance for Unspent Benefits	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,335)	(\$719,33
Anticipated Benefit Redistribution	(\$281,250)	(\$281,250)	(\$210,938)	(\$158,203)	(\$118,652)	(\$88,989)	(\$66,74
Healthcare	\$4,104,773	\$4,104,773	\$4,186,869	\$4,270,606	\$4,356,018	\$4,443,139	\$4,532,00
Operating Expense	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,705	\$5,993,70
Utilities	\$1,029,000	\$1,029,000	\$1,049,580	\$1,070,572	\$1,091,983	\$1,113,823	\$1,136,09
Other Transfers	\$1,027,676	\$1,044,479	\$878,839	\$885,223	\$872,857	\$885,736	\$908,839
Debt Service	\$61,741	\$61,741	\$61,651	\$61,646	\$61,331	\$61,331	\$61,33
Branch Campus Indirect Charge	\$ <u>3,222,347</u>	\$ <u>3,222,347</u>	\$ <u>3,112,058</u>	\$ <u>3,022,789</u>	\$ <u>2,971,539</u>	\$ <u>2,968,077</u>	\$ <u>2,988,41</u> 4
Subtotal Expenses	\$45,155,521	\$45,172,324	\$45,525,988	\$45,651,059	\$45,784,156	\$45,982,510	\$46,209,280
New commitments & investments	\$404,770	\$404,770	\$0	\$0	\$0	\$0	\$0
Total Expenditures	\$45,560,291	\$45,577,094	\$45,525,988	\$45,651,059	\$45,784,156	\$45,982,510	\$46,209,280
Surplus/(Deficit) before Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,632,148)	(\$3,076,212)	(\$3,973,356)	(\$4,252,571)	(\$4,220,882
Transfer from Fund Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Surplus/(Deficit) after Transfer from Fund Balance	(\$938,906)	(\$837,689)	(\$1,632,148)	(\$3,076,212)	(\$3,973,356)	(\$4,252,571)	(\$4,220,882
Sublease or Sell Greentree Health Science Academy	\$0	\$0	\$0 ¢200.056	\$0	\$0	\$0	\$(
Increase allowance for unspent salaries/benefits	\$288,136	\$288,136	\$298,856	\$309,636	\$320,615	\$331,471	\$336,625
Productivity	\$322,057	\$322,057	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,730	\$2,247,73
National Pathways Program (net of expense)	\$277,887	\$47,692	\$281,700	\$284,646	\$288,074	\$291,535	\$295,028
National Pathways Program General Fee	\$71,755	\$71,755	\$72,760	\$73,778	\$74,811	\$75,858	\$76,92
National Pathways Program General Fee Transfer	(\$71,755)	(\$71,755)	(\$72,760)	(\$73,778)	(\$74,811)	(\$75,858)	(\$76,92
Increased Oxford Nursing Students (net of expense)	(\$286,942)	(\$346,250)	(\$225,319)	\$88,060	\$553,912	\$691,670	\$698,27
Expand ELC program to Hamilton (net of expense)	\$222,966	\$460,437	\$556,304	\$502,249	\$431,568	\$436,872	\$386,50
Early Childhood Education (net of expense)	\$114,802	\$36,875	\$229,399	\$247,521	\$255,675	\$260,154	\$264,108
Total Opportunities	\$938,906	\$808,946	\$3,388,670	\$3,679,842	\$4,097,574	\$4,259,432	\$4,228,273
Net Adjusted Surplus / (Deficit)	(\$0)	(\$28,742)	\$1,756,521	\$603,629	\$124,217	\$6,861	\$7,391

Attachment Page 33 of 34

Miam	i Universit	v - Regior	al Camp	IISES			
	ege of Libera						
Five year budget forecast with					orated Dea	llocation	
Five year budget forecast with		FY20	, NO INCIEL	nent, Accel	eraleu kea		
	FY20	Projection	FY21	FY22	FY23	FY24	FY25
Assumptions							
Continuing Student Instructional Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student Out of State Surcharge % Change	0.0%	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Continuing Student General Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Tuition Promise Instructional Fee % Change	4.0%	3.5%	4.0%	2.0%	2.0%	2.0%	2.0%
Tuition Promise Out of State Surcharge % Change	0.0%	0.0%	0.9%	2.0%	2.0%	2.0%	2.0%
Tuition Promise General Fee % Change	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
ELC Contract Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Incoming Cohorts - Fall Only							
First Time	753	777	777	777	777	777	777
Transfer	211	204	204	204	204	204	204
Relocate	34	9	9	9	9	9	9
College Credit Plus	168	157	157	157	157	157	157
Other Non-ELC	3	8	8	8	8	8	8
ELC	150	149	94	94	94	94	89
Total Incoming Cohorts	1,319	1,304	1,249	1,249	1,249	1,249	1,244
Total Continuing Students	2,473	2,483	2,399	2,239	2,123	2,079	2,062
Total UG Students	3,792	3,787	3,648	3,488	3,372	3,328	3,306
State Share of Instruction	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
Cross Campus True Up	\$5,665,798	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Increment	2%	2%	0%	0%	0%	0%	0%
Healthcare	2%	2%	2%	2%	2%	2%	2%
Benefit Redistribution	-25%	-25%	-25%	-25%	-25%	-25%	-25%
Operating Expense	0%	0%	0%	0%	0%	0%	0%
Utilities	0%	0%	2%	2%	2%	2%	2%
Branch Campus Indirect Charge	7%	7%	7%	7%	7%	7%	7%

#### Funding Plan for New Academic Buildings

Project or Source	<u>Cost</u>
Clinical Health Science Building	\$96,000,000
Digital Innovation Building	<u>60,000,000</u>
Total Commitment	\$156,000,000
Exisitng Source of Funding:	
Previous Funding	\$5,000,000
Ohio Appropriation	21,000,000
Current Tri-Health Commitment	3,000,000
Funds Designated for Health Center Renovation	<u>4,500,000</u>
Current Unmet Cost of Construction	\$ 122,500,000
New Debt	<u>125,000,000</u>
Funds Available for Contingency or Other Projects	<u>\$2,500,000</u>



Attachment Page 1 of 93

#### New Building Financing Scenarios

<u>Description</u>	Risk Assumptions	Base Case	Best Case	Worst Case
Plan A-Issue Debt Spring 2020	Lowest Interest Rate Volatility but Highest Carrying Cost			
-Annual Debt Service Assumption		\$7.0 million	\$6.75 million	\$7.25 million
-Draw Against Reserves or New Revenue		\$26.04 million	\$13.27 million	\$54.42 million
-Philanthropy/Sponsorships		\$25 million	\$50 million	\$-0-
Plan B-Delay Debt Unitl Spring 2021	Greatest Interest Rate Volatility but Lower Carrying Cost			
-Annual Debt Service Assumption		\$7.0 million	\$6.50 million	\$7.50 million
-Draw Against Reserves or New Revenue		\$19.04 million	\$6.02 million	\$47.54 million
-Philanthropy/Sponsorships		\$25 million	\$50 million	\$-0-
			_	



Attachment Page 2 of 93

Debt Service Analysis Plan A- Base Case (Millions)											
	FY	FY	FY	FY	FY	FY	FY	FY			
<u>Sources</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>			
New Costs:											
Debt Service	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0			
Health Science Operating Cost			0.72	0.72	0.72	0.72	0.72	0.72			
Digital Building Operating Cost				0.48	0.48	0.48	0.48	0.48			
Subtotal	\$7.0	\$7.0	\$7.7	\$8.2	\$8.2	\$8.2	\$8.2	\$8.2			
Funding Sources: Philanthropy/Partnerships (\$25 million Pledge) Retired Debt Service Provost from New Revenue		\$5.0	\$5.0	\$5.0	\$5.0	\$5.0 2.3	2.3	6.8			
or Existing Reserves	7.0	2.0	2.72	3.2	3.2	.9	5.76	1.26			
Facility Savings							0.14	0.14			
Subtotal	7.0	7.0	7.72	8.2	8.2	8.2	8.2	8.2			
Budget Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			



Attachment Page 3 of 93

Debt Service Analysis Plan A- Best Case (Millions)												
	FY	FY	FY	FY	FY	FY	FY	FY				
<u>Sources</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>				
New Costs:												
Debt Service	\$6.75	\$6.75	\$6.75	\$6.75	\$6.75	\$6.75	\$6.75	\$6.75				
Health Sceince Operating Cost			0.72	0.72	0.72	0.72	0.72	0.72				
Digital Building Operating Cost				0.48	0.48	0.48	0.48	0.48				
Subtota	\$6.75	\$6.75	7.47	\$7.95	\$7.95	\$7.95	\$7.95	\$7.95				
Funding Sources: Philanthropy/Partnerships (\$50 million Pledge) Retired Debt Service Provost from New Revenue or Existing Reserves	6.75	\$10.0 0	\$10.0 0	\$10.0 0	\$10.0 0	\$10.0 2.3 0.0	2.3 5.51	6.8 1.01				
Facility Savings							0.14	0.14				
Subtota	6.75	10.0	10.0	10.0	10.0	12.3	7.95	7.95				
Budget Variance/Available for Other Capital Projects	\$0	\$3.25	\$2.53	\$2.05	\$2.05	\$4.35	\$0	\$0				



Attachment Page 4 of 93

Debt Service Analysis
Plan A- Worst Case
(Millions)

		<b>\</b>		/				
	FY							
<u>Sources</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>
New Costs:								
Debt Service	\$7.25	\$7.25	\$7.25	\$7.25	\$7.25	\$7.25	\$7.25	\$7.25
Health Sceince Operating Cost			0.72	0.72	0.72	0.72	0.72	0.72
Digital Building Operating Cost				0.48	0.48	0.48	0.48	0.48
Subtotal	\$7.25	\$7.25	\$7.97	\$8.45	\$8.45	\$8.45	\$8.45	\$8.45
Funding Sources:								
Philanthropy/Partnerships								
(\$0 million Pledge)		\$0	\$0	\$0	\$0	\$0		
Retired Debt Service						2.3	2.3	6.8
Provost from New Revenue								
or Existing Reserves	7.25	7.25	7.97	8.45	8.45	6.15	6.01	1.51
Facility Savings							0.14	0.14
Subtotal	7.25	7.25	7.97	8.45	8.45	8.45	8.45	8.45
Budget Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Attachment Page 5 of 93

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	Debt Service Analysis Plan B- Base Case												
F	Jan				e								
(Millions)													
	FY	FY	FY	FY	FY	FY	FY	FY					
<u>Sources</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>					
New Costs:													
Debt Service	\$0.0	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0	\$7.0					
Health Sceince Operating Cost			0.72	0.72	0.72	0.72	0.72	0.72					
Digital Building Operating Cost				0.48	0.48	0.48	0.48	0.48					
Subtotal_	\$0.0	\$7.0	\$7.7	\$8.2	\$8.2	\$8.2	\$8.2	\$8.2					
Funding Sources:													
Philanthropy/Partnerships													
(\$25 million Pledge)		\$5.0	\$5.0	\$5.0	\$5.0	\$5.0							
Retired Debt Service		7 - 1 -		1	1	2.3	2.3	6.8					
Provost from New Revenue													
or Existing Reserves	0.0	2.0	2.72	3.2	3.2	0.9	5.76	1.26					
Facility Savings							0.14	0.14					
Subtotal	0.0	7.0	7.72	8.2	8.2	8.2	8.2	8.2					
Budget Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					



Attachment Page 6 of 93

Debt Service Analysis Plan B- Best Case (Millions)											
	FY	FY	FY	FY	FY	FY	FY	FY			
Sources	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>			
New Costs:											
Debt Service	\$0.0	\$6.5	\$6.5	\$6.5	\$6.5	\$6.5	\$6.5	\$6.5			
Health Sceince Operating Cost			0.72	0.72	0.72	0.72	0.72	0.72			
Digital Building Operating Cost	40.0			0.48	0.48	0.48	0.48	0.48			
Subtotal_	\$0.0	\$6.5	\$7.22	\$7.7	\$7.7	\$7.7	\$7.7	\$7.7			
Funding Sources: Philanthropy/Partnerships (\$50 million Pledge) Retired Debt Service Provost from New Revenue		\$10.0	\$10.0	\$10.0	\$10.0	\$10.0 2.3	2.3	6.8			
or Existing Reserves	0.0	0.0	0.0	0.0	0.0	0.0	5.26	0.76			
Facility Savings							0.14	0.14			
Subtotal_	0.0	10.0	10.0	10.0	10.0	12.3	7.7	7.7			
Budget Variance/Available for Other Capital Projects	\$0	\$3.5	\$2.78	\$2.78	\$2.3	\$4.6	\$0	\$0 IAMI			

Attachment Page 7 of 93

	Debt Service Analysis Plan B- Worst Case (Millions)										
	FY	<b>、</b> FY	FY	, FY	FY	FY	FY	FY			
<u>Sources</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>			
New Costs:											
Debt Service	\$0.0	\$7.5	\$7.5	\$7.5	\$7.5	\$7.5	\$7.5	\$7.5			
Health Sceince Operating Cost			0.72	0.72	0.72	0.72	0.72	0.72			
Digital Building Operating Cost				0.48	0.48	0.48	0.48	0.48			
Subtotal_	\$0.0	\$7.5	\$8.22	\$8.2	\$8.7	\$8.7	\$8.7	\$8.7			
Funding Sources: Philanthropy/Partnerships (\$0 million Pledge) Retired Debt Service Provost from New Revenue or Existing Reserves	0.0	\$0.0 7.5	\$0.0 8.22	\$0.0 8.7	\$0.0 8.7	\$0.0 2.3 6.4	2.3 6.26	6.8 1.76			
Facility Savings	0.0	7.5	0.22	0.7	0.7	0.4	0.20	0.14			
Subtotal	0.0	7.5	8.22	8.7	8.7	8.7	8.7	8.7			

**Budget Variance** 



\$0

\$0

\$0

\$0

\$0

\$0

\$0

Attachment Page 8 of 93

\$0

Capital Projects and Bond Funding SVP Creamer

February 20, 2020

Business Session Item 5e



## Debt Capacity and Market Opportunities Update

September 12, 2019

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Attachment C

Overall Page 60 of 190

Attachment Page 9 of 93

#### Table of Contents

Page

Section I.	Debt Profile Update	3
Section II.	Moody's Credit Update & Peer Comps	8
Section III.	Market Update	17
Section IV.	Market Update	25
Section V.	New General Receipts Revenue Bonds	32
Section VI.	Refunding Opportunities	43





## I. Debt Profile Update

Attachment C

Summary

## **Debt Profile Summary**



#### Miami University Summary of Outstanding Debt as of September 1, 2019

											Lead			
Delivery		Original	Par Amount	Par Amount	Final	Remaining	Bond			Premium	Underwriter		Bond	Financial
Date	Issue	Par Amount	as of 6/30/2019	as of 9/1/2019	Maturity	Interest Rates	Insurance	Purpose & Type	1st Call	at 1st Call	(Purchaser)	Co-Managers	Counsel	Advisor
	Receipts Revenue Bonds													
2/14/2017	General Receipts Revenue and	\$154,635,000	\$146,065,000	\$139,260,000	9/1/2041	4.000 -	-	Various New Money	9/1/2026	100%	Barclays	Fifth Third	Dinsmore	
	Refunding Bonds, Series 2017					5.000%		& Adv. Refunding of Series 2007				Stifel Wells Fargo	& Shohl	Capital Advisors
7/30/2015	General Receipts Revenue and Refunding Bonds, Series 2015	52,335,000	32,130,000	27,020,000	9/1/2024	1.880%	-	Current Refunding Series 2005	None	-	Huntington Bank	-	Dinsmore & Shohl	Blue Rose Capital
	(Direct Bank Purchase)							Series 2005			(Purchaser)		& Shohi	Advisors
6/5/2014	General Receipts Revenue and	135,035,000	121,300,000	116,895,000	9/1/2039	3.500 -	-	Various	9/1/2024;	100%	Barclays	Wells Fargo	Dinsmore	JSV &
	Refunding Bonds, Series 2014					5.000%		New Money	9/1/2020 (2036 only)			Fifth Third Edward Jones	& Shohl	Company
11/27/2012	General Receipts Revenue Bonds,	116,065,000	98,735,000	93,845,000	9/1/2037	3.000 -	-	Various	9/1/2022;	100%	Fifth Third	Barclays	Peck	JSV &
	Series 2012					5.000%		New Money	3/1/2018		Securities	Morgan Stanley	Shaffer	Company
									(2037 only)			Stifel Nicolaus		
12/21/2011	General Receipts Revenue and	148,775,000	114,400,000	107,820,000	9/1/2036	4.000 -	-	Various New Money	9/1/2021	100%	Morgan	Barclays	Peck	JSV &
	Refunding Bonds, Series 2011					5.000%		& Adv. Refunding of Series 2003			Stanley	Fifth Third Stifel Nicolaus	Shaffer	Company
12/22/2010	General Receipts Revenue Bonds,	105,445,000	97,735,000	93,680,000	9/1/2035	5.413 -	-	Various	Anytime	Make-Whole	Morgan	-	Peck	JSV &
	Series 2010A (Build America Bonds)					6.772%		New Money		Price	Stanley		Shaffer	Company

General Receipts Revenue Bonds Total: \$712,290,000 \$610,365,000 \$578,520,000

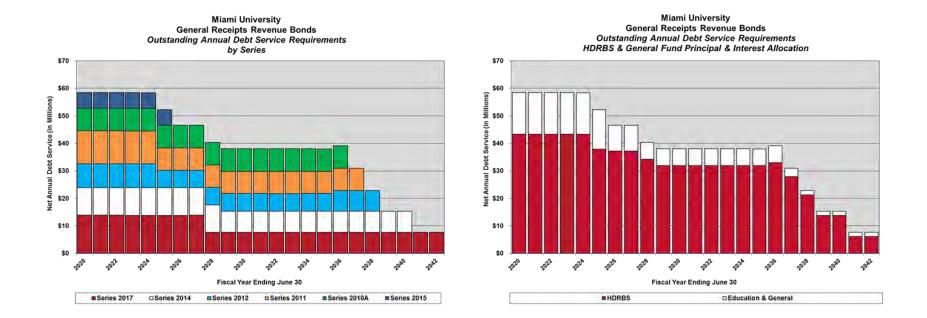
Capital	Leases Payable											
-	Capital Leases Payable <sup>1</sup>	-	\$1,880,000	\$1,880,000	-	-	-	-	-	-		-
	Grand Total:	-	\$612,245,000	\$580,400,000								

<sup>1</sup> Outstanding balances for capital leases are shown as of June 30, 2019.





#### **Debt Service Cash Flow Graphs**



- Net Maximum Annual DS (FY2020) = \$58,482,723
- Average Annual DS (FY2020-2025):
  - > All Bonds = \$57,405,771
  - ➢ HDRBS = \$42,396,676
- Weighted Average Maturity = 9.9 years





#### Debt Service Cash Flows – Series by Series

Table A1

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Miami University General Receipts Revenue Bonds

Summary of Outstanding Net Debt Service Requirements - by Series (Annual)

							Gross	Ser. 2010A	Net	
Fiscal Year	Series	Series	Series	Series	Series	Series	Combined	U.S. Govt Interest	Combined	Principal
Ending	2017 <sup>1</sup>	2015 <sup>1</sup>	2014 <sup>1</sup>	2012 <sup>1</sup>	2011 <sup>1</sup>	2010A 1	Debt Service	Subsidy <sup>2</sup>	Debt Service	Outstanding
6/30/2020	13,879,875	5,666,010	9,997,988	8,700,288	11,974,163	10,326,602	60,544,924	(2,062,202)	58,482,723	578,520,000
6/30/2021	13,871,125	5,664,049	9,997,113	8,699,613	11,962,038	10,249,891	60,443,828	(1,990,885)	58,452,943	545,315,000
6/30/2022	13,874,625	5,660,302	9,999,613	8,697,363	11,972,663	10,162,296	60,366,860	(1,910,986)	58,455,874	510,625,000
6/30/2023	13,849,875	5,659,722	9,999,863	8,701,613	11,957,013	10,071,601	60,239,685	(1,825,126)	58,414,559	474,435,000
6/30/2024	13,851,000	5,657,262	9,997,363	8,701,938	11,960,613	9,972,124	60,140,298	(1,729,787)	58,410,511	436,680,000
6/30/2025	13,836,750	5,667,781	9,996,488	6,348,538	8,132,738	9,861,588	53,843,881	(1,625,865)	52,218,016	403,625,000
6/30/2026	13,836,125		9,996,488	6,350,238	8,131,363	9,747,311	48,061,524	(1,517,418)	46,544,106	374,855,000
6/30/2027	13,866,875		9,996,613	6,350,638	8,133,363	9,625,180	47,972,667	(1,403,090)	46,569,577	344,655,000
6/30/2028	7,632,625		9,996,113	6,351,463	8,124,463	9,499,220	41,603,883	(1,282,561)	40,321,321	319,420,000
6/30/2029	7,631,125		7,732,238	6,350,788	8,134,063	9,362,082	39,210,294	(1,156,704)	38,053,590	295,325,000
6/30/2030	7,629,875		7,735,113	6,351,388	8,130,313	9,220,041	39,066,729	(1,024,292)	38,042,436	270,085,000
6/30/2031	7,633,250		7,735,988	6,350,825	8,132,563	9,071,960	38,924,585	(884,950)	38,039,635	243,655,000
6/30/2032	7,630,750		7,731,363	6,348,563	8,130,063	8,914,918	38,755,656	(739,364)	38,016,292	215,995,000
6/30/2033	7,631,875		7,731,331	6,348,163	8,129,781	8,753,068	38,594,218	(587,253)	38,006,964	187,025,000
6/30/2034	7,631,000		7,732,425	6,349,563	8,133,750	8,585,393	38,432,131	(428,285)	38,003,846	156,675,000
6/30/2035	7,632,500		7,731,175	6,348,544	8,133,500	8,406,049	38,251,767	(262,179)	37,989,589	124,895,000
6/30/2036	7,630,750		7,727,700	7,464,225	8,130,375	8,219,187	39,172,237	(88,657)	39,083,580	90,535,000
6/30/2037	7,630,000		7,734,100	7,460,625	8,133,375		30,958,100		30,958,100	62,970,000
6/30/2038	7,631,125		7,734,600	7,463,363			22,829,088		22,829,088	42,540,000
6/30/2039	7,633,500		7,733,900				15,367,400		15,367,400	28,845,000
6/30/2040	7,629,875		7,731,600				15,361,475		15,361,475	14,530,000
6/30/2041	7,634,375						7,634,375		7,634,375	7,445,000
6/30/2042	7,631,125						7,631,125		7,631,125	
6/30/2043										
6/30/2044										
6/30/2045										
6/30/2046										
6/30/2047										
6/30/2048										
6/30/2049										
	005 0 10 000	00.075.400	100 700 100	105 303 301	105 500 101				000 007 105	
	225,340,000	33,975,126	182,769,169	135,737,731	165,536,194	160,048,509	903,406,729	(20,519,604)	882,887,125	

<sup>1</sup> Principal comes due on the preceding September 1.

<sup>2</sup> U.S. Government interest subsidy calculated at a rate of 32.83% assuming 6.2% federal sequestration for the 9/1/19 payment (U.S. FY 2019) and 32.935% assuming 5.9% federal sequestration thereafter.





## DS Cash Flows – HDRBS and E&G Allocation

#### Miami University

General Receipts Revenue Bonds

Summary of Outstanding Net Debt Service Requirements - Principal & Interest (Annual)

			HDRBS	S Allocation					Education & O	Seneral Allocation			Aggregate
			Gross	Ser. 2010A	Net				Gross	Ser. 2010A	Net		Net
Fiscal Year			Combined	U.S. Govt Interest	Combined	Principal			Combined	U.S. Govt Interest	Combined	Principal	Combined
Ending	Principal <sup>1</sup>	Interest	Debt Service	Subsidy <sup>2</sup>	Debt Service	Outstanding	Principal <sup>1</sup>	Interest	Debt Service	Subsidy <sup>2</sup>	Debt Service	Outstanding	Debt Service
6/30/2020	21,809,550	22,822,077	44,631,627	(1,299,187)	43,332,440	459,708,000	10,035,450	5,877,848	15,913,298	(763,015)	15,150,283	118,812,000	58,482,723
6/30/2021	22,830,950	21,735,482	44,566,432	(1,254,258)	43,312,175	436,877,050	10,374,050	5,503,346	15,877,396	(736,627)	15,140,768	108,437,950	58,452,943
6/30/2022	23,955,500	20,565,911	44,521,411	(1,203,921)	43,317,490	412,921,550	10,734,500	5,110,949	15,845,449	(707,065)	15,138,384	97,703,450	58,455,874
6/30/2023	25,098,200	19.346.953	44,445,153	(1,149,829)	43.295.323	387,823,350	11,091,800	4,702,732	15,794,532	(675,297)	15,119,235	86,611,650	58,414,559
6/30/2024	26,274,800	18,108,933	44,383,733	(1,089,766)	43,293,967	361,548,550	11,480,200	4,276,365	15,756,565	(640,021)	15,116,544	75,131,450	58,410,511
6/30/2025	21,906,550	16,946,408	38,852,958	(1,024,295)	37,828,663	339,642,000	11,148,450	3,842,473	14,990,923	(601,570)	14,389,353	63,983,000	52,218,016
6/30/2026	22,318,000	15,839,835	38,157,835	(955,973)	37,201,861	317,324,000	6,452,000	3,451,689	9,903,689	(561,445)	9,342,244	57,531,000	46,544,106
6/30/2027	23,413,550	14,683,207	38,096,757	(883,947)	37,212,810	293,910,450	6,786,450	3,089,460	9,875,910	(519,143)	9,356,767	50,744,550	46,569,577
6/30/2028	21,446,100	13,572,898	35,018,998	(808,014)	34,210,985	272,464,350	3,788,900	2,795,984	6,584,884	(474,548)	6,110,337	46,955,650	40,321,321
6/30/2029	20,130,900	12,543,727	32,674,627	(728,724)	31,945,903	252,333,450	3,964,100	2,571,567	6,535,667	(427,981)	6,107,687	42,991,550	38,053,590
6/30/2030	21,088,400	11,496,179	32,584,579	(645,304)	31,939,275	231,245,050	4,151,600	2,330,550	6,482,150	(378,988)	6,103,162	38,839,950	38,042,436
6/30/2031	22,078,550	10,417,573	32,496,123	(557,519)	31,938,604	209,166,500	4,351,450	2,077,012	6,428,462	(327,432)	6,101,031	34,488,500	38,039,635
6/30/2032	23,102,100	9,284,174	32,386,274	(465,799)	31,920,475	186,064,400	4,557,900	1,811,482	6,369,382	(273,565)	6,095,817	29,930,600	38,016,292
6/30/2033	24,196,150	8,088,399	32,284,549	(369,970)	31,914,580	161,868,250	4,773,850	1,535,818	6,309,668	(217,284)	6,092,385	25,156,750	38,006,964
6/30/2034	25,348,850	6,835,073	32,183,923	(269,819)	31,914,104	136,519,400	5,001,150	1,247,058	6,248,208	(158,465)	6,089,743	20,155,600	38,003,846
6/30/2035	26,540,100	5,529,564	32,069,664	(165,173)	31,904,492	109,979,300	5,239,900	942,203	6,182,103	(97,006)	6,085,097	14,915,700	37,989,589
6/30/2036	28,870,950	4,189,267	33,060,217	(55,854)	33,004,363	81,108,350	5,489,050	622,970	6,112,020	(32,803)	6,079,217	9,426,650	39,083,580
6/30/2037	24,892,350	2,994,409	27,886,759		27,886,759	56,216,000	2,672,650	398,691	3,071,341		3,071,341	6,754,000	30,958,100
6/30/2038	19,211,000	2,091,863	21,302,863		21,302,863	37,005,000	1,219,000	307,225	1,526,225		1,526,225	5,535,000	22,829,088
6/30/2039	12,413,000	1,427,700	13,840,700		13,840,700	24,592,000	1,282,000	244,700	1,526,700		1,526,700	4,253,000	15,367,400
6/30/2040	12,968,000	867,500	13,835,500		13,835,500	11,624,000	1,347,000	178,975	1,525,975		1,525,975	2,906,000	15,361,475
6/30/2041	5,668,000	439,500	6,107,500		6,107,500	5,956,000	1,417,000	109,875	1,526,875		1,526,875	1,489,000	7,634,375
6/30/2042	5,956,000	148,900	6,104,900		6,104,900		1,489,000	37,225	1,526,225		1,526,225		7,631,125
6/30/2043													
6/30/2044													
6/30/2045													
6/30/2046													
6/30/2047													
6/30/2048													
6/30/2049													
	481,517,550	239,975,532	721,493,082	(12,927,351)	708,565,731		128,847,450	53,066,197	181,913,647	(7,592,254)	174,321,394		882,887,125

<sup>1</sup> Principal comes due on the preceding September 1.

<sup>2</sup> U.S. Government interest subsidy calculated at a rate of 32.83% assuming 6.2% federal sequestration for the 9/1/19 payment (U.S. FY 2019) and 32.935% assuming 5.9% federal sequestration thereafter.

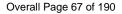






# II. Moody's Credit Update & Peer Comps

Attachment C



Attachment Page 16 of 93

## Recent Moody's Rating Update

- In May, Moody's affirmed Miami's Aa3 rating on its outstanding debt. The outlook remains stable.
- In affirming the rating, Moody's continued to cite consistent credit strengths of the University, including the following:
  - Strong absolute wealth of > \$1 billion between the University and foundation, providing strong coverage of debt and operating expenses
  - > Significant monthly liquidity of 285 days cash on hand, well above that of similarly rated peers
  - Excellent operational performance, with a 6<sup>th</sup> straight year with an operating cash flow margin above 20%.
- Offsetting credit factors mentioned include the following:
  - Elevated total debt to operating revenue of 0.9x, indicating a relatively high debt burden.
  - > Significant pension obligations through the state of Ohio's two state-administered pension plans.
  - Limited geographic diversity, a potential challenge given the stagnating number of high school graduates in Ohio
  - A 2018 4-year freeze on increases to tuition, fees, room, and board, potentially limiting net tuition revenue growth going forward.





## Miami U Credit Trend Analysis

			Miami University (Aa3)			<b>CA CD</b>	Desired
	2015	2016	2017	2018	2019	CAGR	Trend
Total Debt (\$, in Millions)	\$622	\$597	\$674	\$644	\$612	-0.4%	$\downarrow$
Total Cash & Investments (\$, in Millions)	\$1,177	\$1,188	\$1,293	\$1,387	\$1,442	5.2%	$\uparrow$
Spendable Cash & Investments (\$, in Millions)	\$895	\$904	\$992	\$1,069	\$1,125	5.9%	$\uparrow$
Operating Revenue (\$, in Millions)	\$632	\$650	\$670	\$692	\$690	2.2%	$\uparrow$
Operating Expenses (\$, in Millions)	\$539	\$559	\$578	\$602	\$614	3.3%	$\checkmark$
Monthly Days Cash on Hand (x)	266x	284x	295x	285x	298x	2.9%	$\uparrow$
Total FTE Enrollment (#)	21,077	21,769	21,894	22,243	Unavailable	1.8%	$\uparrow$
Net Tuition per Student (\$)	\$16,072	\$16,720	\$16,962	\$17,485	\$16,849	1.2%	$\uparrow$
Spendable Cash & Investments to Total Debt (x)	1.44x	1.51x	1.47x	1.66x	1.84x	6.3%	$\uparrow$
Total Cash & Investments to Total Debt (x)	1.89x	1.99x	1.92x	2.15x	2.36x	5.6%	$\uparrow$
Total Debt to Cash Flow (x)	3.79x	3.68x	3.91x	3.66x	3.70x	-0.6%	$\checkmark$
Total Debt to Operating Revenue (x)	0.98x	0.92x	1.01x	0.93x	0.89x	-2.6%	$\checkmark$
Operating Cash Flow Margin (%)	26.0%	24.9%	25.8%	25.5%	24.0%	-2.0%	$\uparrow$
Debt Service to Operating Expenses (%)	9.2%	8.6%	9.2%	9.4%	9.4%	0.6%	$\checkmark$
Spendable Cash & Investments to Operating Expenses (x)	1.66x	1.62x	1.72x	1.77x	1.83x	2.5%	$\uparrow$
Annual Debt Service Coverage (x)	3.3x	3.4x	3.2x	3.1x	2.9x	-3.5%	$\uparrow$
Maximum Single Contribution (%)	76.1%	76.6%	76.5%	75.7%	75.3%	-0.3%	$\downarrow$
Source: Moody's Investor Services MERA Database as of Sentember 201	9 Miami University EV 2019 Draft A	dit as of September 2, 2010			← MU Trend = Positive		← MU Trend = Negat

Source: Moody's Investor Services MFRA Database as of September 2019, Miami University FY 2019 Draft Audit as of September 3, 2019.

\*FY 2019 calculations for Miami are estimates based on Moody's methodology - some metrics may change slightly as a result of Moody's adjustments and additional data not available in the draft audit.

- The University's operating performance and cash flow remain significant strengths, and Miami has been able to consistently maintain stable, strong cash flow margins over an extended period of time.
- Cash and liquidity metrics, another credit strength, have continued to grow steadily in recent years.
- Enrollment has held fairly steady and even improved each year, a positive given growing competition for students both in Ohio and nationally within the higher education sector.



10

## Miami U vs. Moody's Medians (FY 2018)

	Miami Unive	rsity (Aa3)	Aa2 Medians	Aa3 Medians	A1 Medians	
	FY 2018	FY 2019		FY 2018		
Total Debt (\$, in Millions)	\$644	\$612	\$875	\$441	\$155	
Total Cash & Investments (\$, in Millions)	\$1,387	\$1,442	\$1,966	\$726	\$216	
Spendable Cash & Investments (\$, in Millions)	\$1,069	\$1,125	\$1,307	\$523	\$164	
Operating Revenue (\$, in Millions)	\$692	\$690	\$1,487	\$697	\$247	
Operating Expenses (\$, in Millions)	\$602	\$614	\$1,389	\$661	\$241	
Annual Change in Operating Revenue (%)	3.2%	-0.3%	4.5%	2.6%	1.7%	
Monthly Days Cash on Hand (x)	285x	298x	156x	154x	171x	
Total FTE Enrollment (#)	22,243	Unavailable	38,151	20,439	10,981	
Net Tuition per Student (\$)	\$17,485	\$16,849	\$10,710	\$10,822	\$8,818	
Spendable Cash & Investments to Total Debt (x)	1.66x	1.84x	1.3x	1.3x	1.2x	
Total Cash & Investments to Total Debt (x)	2.15x	2.36x	1.9x	1.7x	1.6x	
Total Debt to Cash Flow (x)	3.66x	3.70x	4.7x	5.3x	5.6x	
Total Debt to Operating Revenue (x)	0.93x	0.89x	0.6x	0.6x	0.6x	
Operating Cash Flow Margin (%)	25.5%	24.0%	11.6%	10.5%	11.8%	
Debt Service to Operating Expenses (%)	9.4%	9.4%	3.9%	4.4%	4.8%	
Spendable Cash & Investments to Operating Expenses (x)	1.77x	1.83x	0.7x	0.7x	0.7x	
Annual Debt Service Coverage (x)	3.1x	2.9x	3.0x	2.7x	2.2x	
Maximum Single Contribution (%)	75.7%	75.3%	45.9%	51.4%	57.6%	
Median Population Size	-		30	45	45	

Source: Moody's Investor Services MFRA Database as of September 2019, Miami University FY 2019 Draft Audit as of September 3, 2019.

\*FY 2019 calculations for Miami are estimates based on Moody's methodology - some metrics may change slightly as a result of Moody's adjustments and additional data not available in the draft audit.

- The University's operating performance continues to dramatically exceed all median results across the sector.
- Revenue diversity, a credit challenge highlighted by Moody's in 2016, remains quite limited compared to similarlyrated institutions.
- Debt service accounts for a very high percentage of Miami's operating expenses although this is partially due the University's strong efforts to reduce overall costs, it is one potential limiting factor on the University's debt capacity from a credit rating perspective.
- The University's cash and liquidity metrics remain very strong compared to other Aa3-rated institutions.





## Moody's Scorecard Analysis

Miami University Historical Moody's Scorecard Analysis

			Fiscal Year		'ear	Fiscal '		Fi	scal Year	Fiscal '	
	Factor	201	5	201	6	201	7		2018	201	.9
Factor 1: Market Profile (30%)	Weight	Factor	Score	Factor	Score	Factor	Score	Factor	Score	Factor	Score
Operating Revenue (\$, in Millions)	15%	632	4.2	650	4.2	670	4.1	6	92 4.1	690	4.1
Annual Change in Operating Revenue (%)	5%	5.40%	5.4	2.90%	9.2	3.10%	8.9	3.20	0% 8.7	(0.30%)	13.7
Strategic Positioning <sup>1</sup>	10%	Qualitative	4.0	Qualitative	4.0	Qualitative	4.0	Qualitativ	e 4.0	Qualitative	4.0
Factor 2: Operating Performance (25%)											
Operating Cash Flow Margin (%)	10%	26.0%	0.5	24.9%	0.5	25.8%	0.5	25.5	5% 0.5	24.0%	0.7
Maximum Single Contribution (%)	15%	76.1%	11.0	76.6%	11.2	76.5%	11.1	75.7	7% 10.8	75.3%	10.6
Factor 3: Wealth & Liquidity (25%)											
Total Cash & Investments (\$, in Millions)	10%	1,177	3.2	1,188	3.1	1,293	3.0	1,3	87 2.9	1,442	2.8
Spendable C&I to Operating Expenses (x)	10%	1.66x	0.8	1.62x	0.9	1.72x	0.8	1.1	77x 0.7	1.83x	0.7
Monthly Days Cash on Hand (x)	5%	266x	1.3	284x	0.9	295x	0.6	28	35x 0.9	298x	0.5
Factor 4: Leverage (20%)											
Spendable C&I to Total Debt (x)	10%	1.44x	3.6	1.51x	3.5	1.47x	3.5	1.6	6x 3.3	1.84x	3.1
Total Debt-to-Cash Flow (x)	10%	3.79x	1.4	3.68x_	1.4	3.91x	1.5	3.6	66x <u>1.4</u>	3.70x	1.4
Weight	ed Total Score:		3.96		4.15		4.10		4.00		4.19
Estimated Scorecard Ra	ting Outcome:		Aa3		Aa3		Aa3		Aa3		Aa3
Current M	loody's Rating:		Aa3		Aa3		Aa3		Aa3		Aa3

<sup>1</sup>The Strategic Positioning factor incorporates qualitative evaluation of broad criteria related to an institution's ability to maintain its market relevance and protect and strengthen its reputation. In this analysis, the University is assigned the score of its current Aa3 Moody's Rating.

Source: Moody's Investor Services MFRA Database as of September 2019, Miami University FY 2019 Draft Audit as of September 3, 2019.

- The University's indicative scorecard results have remained consistently within a narrow band over the past 5 years, showing Miami as stably within the Aa3 category on an indicative basis.
- There have been few significant swings in performance for the University within the scorecard metrics, with perhaps the most relatively notable being a minor decline in operating revenue for FY 2019.





### Moody's Peer Scorecard Comparison (FY 2018)

Moody's Scorecard Comparison to Public	c Peers	Mian	ni	India	na	Ohio S	State	Clem	son	Michigar	State	Ball S	tate
	Factor	Universit	y (OH)	Univer	University		University (OH)		ty (SC)	Universi	ty (MI)	Universi	ty (IN)
Factor 1: Market Profile (30%)	Weight	Factor	Score	Factor	Score	Factor	Score	Factor	Score	Factor	Score	Factor	Score
Operating Revenue (\$, in Millions)	15%	692	4.1	3,152	0.5	6,709	0.5	1,032	3.7	2,512	1.7	502	4.4
Annual Change in Operating Revenue (%)	5%	3.20%	8.7	2.80%	9.3	5.40%	5.4	4.50%	6.8	2.70%	9.5	3.30%	8.6
Strategic Positioning <sup>1</sup>	10%	Qualitative	4.0	Qualitative	1.0	Qualitative	2.0	Qualitative	3.0	Qualitative	3.0	Qualitative	4.0
Factor 2: Operating Performance (25%)													
Operating Cash Flow Margin (%)	10%	25.5%	0.5	9.8%	5.1	15.2%	3.1	13.7%	3.6	9.7%	5.1	10.5%	4.7
Maximum Single Contribution (%)	15%	75.7%	10.8	51.8%	4.8	54.1%	5.2	59.3%	6.1	49.2%	4.3	56.5%	5.6
Factor 3: Wealth & Liquidity (25%)													
Total Cash & Investments (\$, in Millions)	10%	1,387	2.9	4,282	0.8	7,904	0.5	1,064	3.3	3,711	1.0	527	4.0
Spendable C&I to Operating Expenses (x)	10%	1.77x	0.7	0.90x	2.1	1.00x	1.5	0.70x	3.3	1.20x	1.3	0.90x	2.1
Monthly Days Cash on Hand (x)	5%	285x	0.9	210x	2.7	211x	2.7	221x	2.5	252x	1.7	221x	2.5
Factor 4: Leverage (20%)													
Spendable C&I to Total Debt (x)	10%	1.66x	3.3	2.80x	1.8	2.00x	2.8	1.10x	4.0	2.50x	2.2	1.40x	3.6
Total Debt-to-Cash Flow (x)	10%	3.66x	1.4	3.00x	1.3	3.10x	1.3	4.50x	1.8	4.80x	1.9	6.30x	2.7
Weighted To	otal Score:		4.00		2.60		2.39		3.83		2.92		4.16
Estimated Scorecard Rating	Outcome:		Aa3		Aa2		Aa1		Aa3		Aa2		Aa3
Current Mood	v's Rating:		Aa3		Aaa		Aa1		Aa2		Aa2		Aa3

#### Miami University

Moody's Scorecard Comparison to Public	Peers	Mian	ni	Kent S	tate	Ohi	0	Univers	ity of	Bowling	Green	Univers	ity of
	Factor	Universit	ty (OH)	Universit	y (OH)	Universi	ty (OH)	Cincinna	ti (OH)	State Unive	rsity (OH)	Toledo	(OH)
Factor 1: Market Profile (30%)	Weight	Factor	Score	Factor	Score	Factor	Score	Factor	Score	Factor	Score	Factor	Score
Operating Revenue (\$, in Millions)	15%	692	4.1	634	4.2	743	4.1	1,222	3.4	362	4.8	850	3.9
Annual Change in Operating Revenue (%)	5%	3.20%	8.7	(7.30%)	17.3	(4.40%)	15.7	2.60%	9.6	1.90%	10.7	(1.40%)	14.2
Strategic Positioning <sup>1</sup>	10%	Qualitative	4.0	Qualitative	4.0	Qualitative	4.0	Qualitative	4.0	Qualitative	5.0	Qualitative	5.0
Factor 2: Operating Performance (25%)													
Operating Cash Flow Margin (%)	10%	25.5%	0.5	6.9%	6.4	15.5%	3.0	14.1%	3.5	9.0%	5.4	3.8%	8.1
Maximum Single Contribution (%)	15%	75.7%	10.8	63.4%	6.9	63.5%	6.9	49.3%	4.4	67.9%	7.8	44.7%	3.4
Factor 3: Wealth & Liquidity (25%)													
Total Cash & Investments (\$, in Millions)	10%	1,387	2.9	682	3.8	1,019	3.4	1,564	2.7	396	4.1	564	3.9
Spendable C&I to Operating Expenses (x)	10%	1.77x	0.7	0.90x	2.1	1.10x	1.4	0.70x	3.3	0.80x	2.7	0.50x	4.5
Monthly Days Cash on Hand (x)	5%	285x	0.9	271x	1.2	237x	2.1	148x	4.3	214x	2.6	73x	6.7
Factor 4: Leverage (20%)													
Spendable C&I to Total Debt (x)	10%	1.66x	3.3	1.40x	3.6	1.30x	3.8	0.70x	4.8	1.00x	4.2	1.40x	3.6
Total Debt-to-Cash Flow (x)	10%	3.66x	1.4	10.40x	4.7	5.30x	2.2	7.30x	3.2	9.00x	4.0	9.90x	4.5
Weighted To	tal Score:		4.00		5.04		4.30		4.00		5.11		5.11
Estimated Scorecard Rating	Outcome:		Aa3		A1		Aa3		Aa3		A1		A1
Current Mood	/'s Rating:		Aa3		Aa3		Aa3		Aa3		A1		A1

<sup>1</sup>The Strategic Positioning factor incorporates qualitative evaluation of broad criteria related to an institution's ability to maintain its market relevance and protect and strengthen its reputation. In this analysis, each institution is assigned the score of their current Moody's rating.

Source: Moody's Investor Services MFRA Database as of September 2019. All results are based on FY 2018 operating data.



Attachment C

13

## Moody's Peer & Medians Comparison

	Miami University ng Aa3 Aa3		Indiana University	Ohio State University	Aa2 Medians	Clemson University	Michigan State University
Moody's Rating	Aa3	Aa3	Aaa	Aa1	-	Aa2	Aa2
Fiscal Year Ended	2018	2019	2018	2018	2018	2018	2018
Total Debt (\$, in Millions)	\$644	\$612	\$936	\$3,164	\$875	\$644	\$1,180
Total Cash & Investments (\$, in Millions)	\$1,387	\$1,442	\$4,282	\$7,904	\$1,966	\$1,064	\$3,711
Spendable Cash & Investments (\$, in Millions)	\$1,069	\$1,125	\$2,639	\$6,352	\$1,307	\$684	\$3,000
Operating Revenue (\$, in Millions)	\$691.8	\$689.9	\$3,151.8	\$6,708.8	\$1,486.8	\$1,031.7	\$2,511.9
Annual Change in Operating Revenue (%)	3.2%	-0.3%	2.8%	5.4%	4.5%	4.5%	2.7%
Operating Expenses (\$, in Millions)	\$602.3	\$614.2	\$3,032.2	\$6,207.3	\$1,389.1	\$970.5	\$2,573.0
Monthly Days Cash on Hand (x)	284.7x	298.3x	210.4x	210.9x	156.4x	221.4x	251.8x
Total FTE Enrollment (#)	22,243	Unavailable	81,870	62,214	38,151	22,944	46,025
Net Tuition per Student (\$)	\$17,485	\$16,849	\$15,491	\$14,487	\$10,710	\$20,028	\$18,887
Spendable Cash & Investments to Total Debt (x)	1.7x	1.8x	2.8x	2.0x	1.3x	1.1x	2.5x
Total Cash & Investments to Total Debt (x)	2.2x	2.4x	4.6x	2.5x	1.9x	1.7x	3.1x
Total Debt to Cash Flow (x)	3.7x	3.7x	3.0x	3.1x	4.7x	4.5x	4.8x
Operating Cash Flow (\$, in Millions)	\$176	\$166	\$309	\$1,021	\$209	\$142	\$244
Operating Cash Flow Margin (%)	25.5%	24.0%	9.8%	15.2%	11.6%	13.7%	9.7%
Debt Service to Operating Expenses (%)	9.4%	9.4%	3.5%	4.2%	3.9%	4.4%	2.7%
Spendable Cash & Investments to Operating Expenses (x)	1.8x	1.8x	0.9x	1.0x	0.7x	0.7x	1.2x
Annual Debt Service Coverage (x)	3.1x	2.9x	2.9x	3.9x	3.0x	3.3x	3.5x
Maximum Single Contribution (%)	75.7%	75.3%	51.8%	54.1%	45.9%	59.3%	49.2%
Median Population Size	-		-	-	30	-	-

Source: Moody's Investor Services MFRA Database as of September 2019, Miami University FY 2019 Draft Audit as of September 3, 2019.





### Moody's Peer Comparison (continued)

	Miam Univers Aa3		Aa3 Medians	Ball State University	Kent State University	Ohio University	University of Cincinnati
Moody's Rating	Aa3	Aa3	-	Aa3	Aa3	Aa3	Aa3
Fiscal Year Ended	2018	2019	2018	2018	2018	2018	2018
Total Debt (\$, in Millions)	\$644	\$612	\$441	\$332	\$455	\$610	\$1,260
Total Cash & Investments (\$, in Millions)	\$1,387	\$1,442	\$726	\$527	\$682	\$1,019	\$1,564
Spendable Cash & Investments (\$, in Millions)	\$1,069	\$1,125	\$523	\$448	\$618	\$776	\$868
Operating Revenue (\$, in Millions)	\$691.8	\$689.9	\$697.1	\$502.0	\$634.4	\$743.2	\$1,222.5
Annual Change in Operating Revenue (%)	3.2%	-0.3%	2.6%	3.3%	-7.3%	-4.4%	2.6%
Operating Expenses (\$, in Millions)	\$602.3	\$614.2	\$661.2	\$487.2	\$661.2	\$709.1	\$1,214.4
Monthly Days Cash on Hand (x)	284.7x	298.3x	154.3x	221.1x	270.6x	237.2x	148.3x
Total FTE Enrollment (#)	22,243	Unavailable	20,439	18,501	30,232	28,875	39,950
Net Tuition per Student (\$)	\$17,485	\$16,849	\$10,822	\$11,197	\$10,817	\$12,349	\$12,212
Spendable Cash & Investments to Total Debt (x)	1.7x	1.8x	1.3x	1.4x	1.4x	1.3x	0.7x
Total Cash & Investments to Total Debt (x)	2.2x	2.4x	1.7x	1.6x	1.5x	1.7x	1.2x
Total Debt to Cash Flow (x)	3.7x	3.7x	5.3x	6.3x	10.4x	5.3x	7.3x
Operating Cash Flow (\$, in Millions)	\$176	\$166	\$80	\$53	\$44	\$115	\$173
Operating Cash Flow Margin (%)	25.5%	24.0%	10.5%	10.5%	6.9%	15.5%	14.1%
Debt Service to Operating Expenses (%)	9.4%	9.4%	4.4%	5.0%	6.1%	6.2%	7.1%
Spendable Cash & Investments to Operating Expenses (x)	1.8x	1.8x	0.7x	0.9x	0.9x	1.1x	0.7x
Annual Debt Service Coverage (x)	3.1x	2.9x	2.7x	2.2x	1.1x	2.6x	2.0x
Maximum Single Contribution (%)	75.7%	75.3%	51.4%	56.5%	63.4%	63.5%	49.3%
Median Population Size	-		45	-	-	-	-

Source: Moody's Investor Services MFRA Database as of September 2019, Miami University FY 2019 Draft Audit as of September 3, 2019.





### Moody's Peer Comparison (continued)

	Mia Unive		A1 Medians	Bowling Green State University	University of Toledo
Moody's Rating	Aa3	Aa3	-	A1	A1
Fiscal Year Ended	2018	2019	2018	2018	2018
Total Debt (\$, in Millions)	\$644	\$612	\$155	\$294	\$321
Total Cash & Investments (\$, in Millions)	\$1,387	\$1,442	\$216	\$396	\$564
Spendable Cash & Investments (\$, in Millions)	\$1,069	\$1,125	\$164	\$299	\$440
Operating Revenue (\$, in Millions)	\$691.8	\$689.9	\$246.6	\$362.2	\$850.1
Annual Change in Operating Revenue (%)	3.2%	-0.3%	1.7%	1.9%	-1.4%
Operating Expenses (\$, in Millions)	\$602.3	\$614.2	\$241.2	\$374.2	\$887.2
Monthly Days Cash on Hand (x)	284.7x	298.3x	171.2x	214.3x	72.6x
Total FTE Enrollment (#)	22,243	Unavailable	10,981	16,395	17,433
Net Tuition per Student (\$)	\$17,485	\$16,849	\$8,818	\$9,934	\$11,057
Spendable Cash & Investments to Total Debt (x)	1.7x	1.8x	1.2x	1.0x	1.4x
Total Cash & Investments to Total Debt (x)	2.2x	2.4x	1.6x	1.3x	1.8x
Total Debt to Cash Flow (x)	3.7x	3.7x	5.6x	9.0x	9.9x
Operating Cash Flow (\$, in Millions)	\$176	\$166	\$27	\$33	\$32
Operating Cash Flow Margin (%)	25.5%	24.0%	11.8%	9.0%	3.8%
Debt Service to Operating Expenses (%)	9.4%	9.4%	4.8%	4.6%	3.1%
Spendable Cash & Investments to Operating Expenses (x)	1.8x	1.8x	0.7x	0.8x	0.5x
Annual Debt Service Coverage (x)	3.1x	2.9x	2.2x	1.9x	1.2x
Maximum Single Contribution (%)	75.7%	75.3%	57.6%	67.9%	44.7%
Median Population Size	-		45	-	-

Source: Moody's Investor Services MFRA Database as of September 2019, Miami University FY 2019 Draft Audit as of September 3, 2019.





# III. Debt Capacity Study

Attachment C

## Overview of Debt Capacity Methodology

- As Miami considers issuing debt to finance new money projects, both in the short term (calendar year 2020) and over a longer-term capital plan, it will be important to consider how such new issuance(s) may impact the University's credit ratings.
- Due to the availability and transparency of Moody's quantitative weightings for various financial metrics through their scorecard model, we have elected to utilize a Moody's-based framework for our initial examination of the University's debt capacity.
- Our model provides a tailored stress test of six key Moody's metrics that are responsive to additional debt.
  - This provides a more responsive barometer of the impact of new borrowing than Moody's scorecard model, which only weights debt and leverage as 20% of the overall score outcome.
  - All scenarios assume a conservative 2% annual growth rate for both total and spendable cash and investments.All scenarios except Scenario 3 assume stable operations (0% growth in operating revenue and expenses).
- This model is structured to allow for significant customization, with the option to project the impact of a single debt issue or a series of issues over time while simultaneously factoring in potential growth or deterioration in operational performance, cash and investments, and liquidity.



## **Debt Capacity Scenarios**

- Initially, given the likelihood of additional borrowing in 2020, we ran 3 spot scenarios showing the impact of \$100M, \$150M, and \$200M of new level debt service borrowing in March 2020 on the University's debt-based ratios.
- For additional context, we then expanded the analysis to consider a longer-term capital planning horizon, assuming \$150M of new money in 2020 and then similar \$150M new money issues each 3 years thereafter (2023 and 2026).
- Finally, we elected to run a "stress test" scenario relating to the longer-term capital plan.
  - This scenario examines the effect of a deterioration in Miami's operating performance, assuming a 4% reduction in operating cash flow margin in FY 2020 and 2021 until it stabilizes at 16% (down from an estimated 24% in FY 2019) and maintains that level going forward.
- The results of these scenarios are shown on the following slides, with the projected impacts on each financial metric shown on an annual basis along with a weighted overall score, similar conceptually to that generated by the Moody's scorecard.



## Scenario IA: \$100M Issuance in FY 2020

			Moody's Public Higher Education Medians Fiscal Year 2018							+\$1		Jniversity Money in FY	2020				
Key Capital Ratios	Desired Trend	Aa1	Aa2	Aa3	A1	A2	A3	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Spendable Cash & Investments to Total Deb	t ↑	2.20	1.30	1.30	1.20	0.50	0.80	1.84	1.74	1.87	2.02	2.20	2.42	2.64	2.88	3.16	3.45
Total Cash & Investments to Total Debt (x)	$\uparrow$	2.90	1.90	1.70	1.60	0.70	1.20	1.44	1.37	1.47	1.59	1.73	1.90	2.08	2.26	2.48	2.71
Total Debt to Cash Flow (x)	$\checkmark$	3.30	4.70	5.30	5.60	8.70	8.90	3.70	3.99	3.78	3.57	3.34	3.10	2.89	2.71	2.52	2.36
Annual Debt Service Coverage (x)	$\uparrow$	3.90	3.00	2.70	2.20	1.70	1.90	2.86	2.82	2.64	2.60	2.60	2.60	2.88	3.19	3.19	3.63
Total Debt to Operating Revenue (x)	$\checkmark$	0.40	0.60	0.60	0.60	0.90	0.70	0.89	0.96	0.91	0.86	0.80	0.74	0.69	0.65	0.60	0.57
Debt Service to Operating Expenses (%)	$\checkmark$	3.40	3.90	4.40	4.80	6.30	4.60	9.43	9.54	10.14	10.35	10.37	10.40	9.41	8.51	8.53	7.52
						Wei	ghted Score	5.24	5.35	5.54	5.55	5.48	5.35	4.84	4.45	4.44	4.11
Median Population Size (#)		12	30	47	50	21	11										

•Unsurprisingly, the addition of \$100M of additional debt does not significantly stress Miami's debt capacity given its strong balance sheet and the rapid pace at which the University amortizes its existing debt portfolio.





## Scenario IB: \$150M Issuance in FY 2020

			Moody's Public Higher Education Medians Fiscal Year 2018							+\$1		Jniversity Money in FY	2020				
Key Capital Ratios	Desired Trend	Aa1	Aa2	Aa3	A1	A2	A3	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Spendable Cash & Investments to Total Deb	ot ↑	2.20	1.30	1.30	1.20	0.50	0.80	1.84	1.64	1.76	1.90	2.06	2.25	2.45	2.66	2.91	3.16
Total Cash & Investments to Total Debt (x)	$\uparrow$	2.90	1.90	1.70	1.60	0.70	1.20	1.44	1.29	1.38	1.49	1.62	1.77	1.93	2.09	2.29	2.48
Total Debt to Cash Flow (x)	$\checkmark$	3.30	4.70	5.30	5.60	8.70	8.90	3.70	4.23	4.02	3.80	3.57	3.33	3.12	2.93	2.73	2.57
Annual Debt Service Coverage (x)	$\uparrow$	3.90	3.00	2.70	2.20	1.70	1.90	2.86	2.82	2.56	2.50	2.50	2.50	2.76	3.04	3.04	3.44
Total Debt to Operating Revenue (x)	$\checkmark$	0.40	0.60	0.60	0.60	0.90	0.70	0.89	1.01	0.97	0.91	0.86	0.80	0.75	0.70	0.66	0.62
Debt Service to Operating Expenses (%)	$\checkmark$	3.40	3.90	4.40	4.80	6.30	4.60	9.43	9.54	10.43	10.73	10.76	10.78	9.80	8.90	8.92	7.92
						Wei	ghted Score	5.24	5.44	5.72	5.77	5.70	<b>5.63</b>	<b>5.09</b>	4.64	4.58	4.26
Median Population Size (#)		12	30	47	50	21	11										

# •\$150M of added debt begins to add a bit more pressure to the University's financial metrics, with the weighted score increasing from 5.24 in FY 2019 to a peak of 5.77 in FY 2022.



## Scenario IC: \$200M Issuance in FY 2020

			Moody's	Public High Fiscal Y	er Educatio ear 2018	on Medians					+\$2		University Money in F	<b>(</b> 2020			
Key Capital Ratios	Desired Trend	Aa1	Aa2	Aa3	A1	A2	A3	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Spendable Cash & Investments to Total Deb	ot ↑	2.20	1.30	1.30	1.20	0.50	0.80	1.84	1.55	1.66	1.79	1.93	2.11	2.29	2.48	2.70	2.92
Total Cash & Investments to Total Debt (x)	↑	2.90	1.90	1.70	1.60	0.70	1.20	1.44	1.22	1.30	1.40	1.52	1.66	1.80	1.95	2.12	2.30
Total Debt to Cash Flow (x)	$\checkmark$	3.30	4.70	5.30	5.60	8.70	8.90	3.70	4.46	4.26	4.04	3.80	3.56	3.34	3.15	2.95	2.78
Annual Debt Service Coverage (x)	↑	3.90	3.00	2.70	2.20	1.70	1.90	2.86	2.82	2.49	2.40	2.41	2.41	2.64	2.91	2.91	3.26
Total Debt to Operating Revenue (x)	$\checkmark$	0.40	0.60	0.60	0.60	0.90	0.70	0.89	1.07	1.02	0.97	0.91	0.85	0.80	0.76	0.71	0.67
Debt Service to Operating Expenses (%)	$\checkmark$	3.40	3.90	4.40	4.80	6.30	4.60	9.43	9.54	10.72	11.11	11.13	11.16	10.19	9.29	9.31	8.31
						Wei	ghted Score	5.24	5.58	5.92	6.00	5.94	5.87	5.38	4.93	4.79	4.40
Median Population Size (#)		12	30	47	50	21	11										

•The University's already highly leveraged debt portfolio begins to show additional strain under \$200M of additional debt, with Total Debt to Operating Revenue exceeding 1.0x in 2020 and 2021 and Debt Service to Operating Expenses surpassing 11% in 2022-2024.



### Scenario 2: \$150M Issuances in FY 2020, 2023, and 2026

			Moody's Public Higher Education Medians Fiscal Year 2018					Scenario	2 - Capital P	lan w/ \$150N		University Iew Money I	Issuances in	FY 2020, 202	3, and 2026		
Key Capital Ratios	Desired Trend	Aa1	Aa2	Aa3	A1	A2	A3	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Spendable Cash & Investments to Total Deb	t 个	2.20	1.30	1.30	1.20	0.50	0.80	1.84	1.64	1.76	1.90	1.71	1.85	2.00	1.80	1.92	2.06
Total Cash & Investments to Total Debt (x)	$\uparrow$	2.90	1.90	1.70	1.60	0.70	1.20	1.44	1.29	1.38	1.49	1.35	1.45	1.57	1.41	1.51	1.61
Total Debt to Cash Flow (x)	$\downarrow$	3.30	4.70	5.30	5.60	8.70	8.90	3.70	4.23	4.02	3.80	4.29	4.05	3.83	4.35	4.14	3.95
Annual Debt Service Coverage (x)	$\uparrow$	3.90	3.00	2.70	2.20	1.70	1.90	2.86	2.82	2.56	2.50	2.50	2.29	2.44	2.67	2.43	2.61
Total Debt to Operating Revenue (x)	$\downarrow$	0.40	0.60	0.60	0.60	0.90	0.70	0.89	1.01	0.97	0.91	1.03	0.97	0.92	1.04	0.99	0.95
Debt Service to Operating Expenses (%)	$\checkmark$	3.40	3.90	4.40	4.80	6.30	4.60	9.43	9.54	10.43	10.73	10.76	11.64	10.95	10.06	10.95	10.24
						Weig	ghted Score	5.24	5.44	5.72	5.77	5.88	6.22	5.84	5.59	5.91	5.55
Median Population Size (#)		12	30	47	50	21	11										

•While this scenario of graduated debt issuance does not increase the University's weighted score as rapidly as Scenario IC, it remains elevated for an extended period of time compared to FY 2019 levels.

•Miami's rapid amortization of principal allows for relative stability in absorbing the new debt at this pace – while the sheer level of added debt makes a negative rating outlook or a single downgrade possible, further rating deterioration is unlikely under this scenario.





### Scenario 3: \$150M Issuances in FY 2020, 2023, and 2026 with Deteriorating Operating Performance

			Moody's Public Higher Education Medians Fiscal Year 2018 S				Sconario 3	- \$150M Nov	w Money Iss	iances in EV		Jniversity	sumes One	rating Cash F	low Deterio	rates to 16%)	
Key Capital Ratios	Desired Trend	Aa1	Aa2	Aa3	A1	A2	A3	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Spendable Cash & Investments to Total Deb	t 个	2.20	1.30	1.30	1.20	0.50	0.80	1.84	1.64	1.76	1.90	1.71	1.85	2.00	1.80	1.92	2.06
Total Cash & Investments to Total Debt (x)	$\uparrow$	2.90	1.90	1.70	1.60	0.70	1.20	1.44	1.29	1.38	1.49	1.35	1.45	1.57	1.41	1.51	1.61
Total Debt to Cash Flow (x)	$\checkmark$	3.30	4.70	5.30	5.60	8.70	8.90	3.70	5.20	6.30	5.95	6.72	6.34	5.99	6.81	6.48	6.18
Annual Debt Service Coverage (x)	$\uparrow$	3.90	3.00	2.70	2.20	1.70	1.90	2.86	2.29	1.64	1.59	1.60	1.46	1.56	1.70	1.55	1.66
Total Debt to Operating Revenue (x)	$\checkmark$	0.40	0.60	0.60	0.60	0.90	0.70	0.89	1.04	1.01	0.95	1.08	1.02	0.96	1.09	1.04	0.99
Debt Service to Operating Expenses (%)	$\downarrow$	3.40	3.90	4.40	4.80	6.30	4.60	9.43	9.33	9.95	10.24	10.26	11.11	10.44	9.59	10.45	9.77
						Wei	ghted Score	5.24	5.82	6.98	<mark>6.97</mark>	7.30	7.49	7.05	7.01	7.24	6.78
Median Population Size (#)		12	30	47	50	21	11										

•With 3 additional \$150M debt issues along with (relatively) deteriorating credit performance, Miami's debt service coverage and cash flow metrics are drastically impacted relatively to current norms.

•In this hypothetical downside scenario, a rating downgrade is almost certain, with the potential for a second notch downgrade depending on the severity of the downturn and the effectiveness of the University's efforts to mitigate the negative credit developments.







# **VI. Refunding Opportunities**

Attachment C

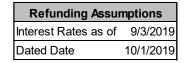
# **Refunding Opportunities**

- Tax-exempt advance refundings are currently prohibited as a result of 2017 tax reform.
- In the current low-yield environment, taxable advance refundings are generating attractive debt service savings for many issuers.

Refunding Opportunities to Consider												
Series	Outstanding Par (\$000s)	Call Date(s)	Final Maturity									
2011	114,400	9/1/2021	9/1/2036									
2012	98,735	9/1/2022; 3/1/2018 (2037)	9/1/2037									
2014	121,300	9/1/2024; 9/1/2020 (2036)	9/1/2039									



efunding Opp						
Series	Call Date	Maturity Date	Coupon		PV Savings (\$000s)	PV Savings %
2011	9/1/2021	9/1/2022	4.00%	3,270	(16)	-0.50%
2011	9/1/2021	9/1/2022	5.00%	4,340	\$63	1.44%
2011	9/1/2021	9/1/2023	4.00%	5,300	65	1.23%
2011	9/1/2021	9/1/2023	5.00%	2,660	110	4.13%
2011	9/1/2021	9/1/2024	5.00%	4,415	282	6.38%
2011	9/1/2021	9/1/2025	5.00%	4,640	386	8.31%
2011	9/1/2021	9/1/2026	5.00%	4,880	481	9.85%
2011	9/1/2021	9/1/2027	4.00%	5,095	346	6.78%
2011	9/1/2021	9/1/2031	5.00%	23,050	3,102	13.46%
2011	9/1/2021	9/1/2032	4.38%	3,950	414	10.49%
2011	9/1/2021	9/1/2033	5.00%	9,245	1,131	12.23%
2011	9/1/2021	9/1/2036	5.00%	22,800	3,418	14.99%
2012	9/1/2022	9/1/2023	4.00%	5,915	-91	-1.54%
2012	9/1/2022	9/1/2024	4.00%	3,755	-11	-0.30%
2012	9/1/2022	9/1/2025	4.00%	3,910	33	0.85%
2012	9/1/2022	9/1/2026	4.00%	4,070	78	1.92%
2012	9/1/2022	9/1/2027	3.00%	1,365	-8	-0.61%
2012	9/1/2022	9/1/2027	4.00%	2,865	83	2.91%
2012	9/1/2022	9/1/2028	4.00%	4,395	168	3.83%
2012	9/1/2022	9/1/2029	4.00%	4,575	214	4.67%
2012	9/1/2022	9/1/2030	3.13%	4,740	49	1.02%
2012	9/1/2022	9/1/2031	4.00%	4,910	302	6.16%
2012	9/1/2022	9/1/2032	4.00%	5,110	348	6.81%
2012	9/1/2022	9/1/2033	4.00%	5,320	394	7.41%
2012	9/1/2022	9/1/2034	3.25%	5,515	168	3.05%
2012	Current	9/1/2037	3.50%	21,255	1,637	7.70%
2014	9/1/2024	9/1/2025	5.00%	5,945	-230	-3.86%
2014	9/1/2024	9/1/2026	5.00%	6,250	-133	-2.13%
2014	9/1/2024	9/1/2027	5.00%	6,570	-35	-0.54%
2014	9/1/2024	9/1/2028	5.00%	4,585	43	0.94%
2014	9/1/2024	9/1/2029	3.50%	400	-9	-2.23%
2014	9/1/2024	9/1/2029	5.00%	4,420	102	2.30%
2014	9/1/2024	9/1/2030	5.00%	5,065	180	3.56%
2014	9/1/2024	9/1/2031	5.00%	5,320	251	4.72%
2014	9/1/2024	9/1/2032	3.75%	435	1	0.33%
2014	9/1/2024	9/1/2032	5.00%	5,155	298	5.78%
2014	9/1/2024	9/1/2033	5.00%	5,875	397	6.75%
2014	9/1/2024	9/1/2034	5.00%	6,175	472	7.64%
2014	9/1/2020	9/1/2036	4.00%	10,040	886	8.83%
2014	9/1/2024	9/1/2039	4.00%	25,005	1,036	4.14%
TOTAL	0/1/2024	5/ 1/2005	4.0070	20,000	\$16,405	י, דו אי
IUTAL					a 10,400	





# **Cashflow Savings**

- Cashflow savings generated from these refundings could provide relief in the operating budget to ease the debt service impact of a new money borrowing.
- However, the University will want to be strategic about executing its call options at the most advantageous opportunity.

		Series 2011			Series 2012	1		Series 2014				
FY	New DS	Old DS <sup>1</sup>	CF Savings	New DS	Old DS <sup>1</sup>	CF Savings	New DS	Old DS <sup>1</sup>	CF Savings	<b>Total CF Savings</b>	Scen. 2 Pro Forma DS	Difference
2020	971	2,260	1,289	833	1,453	619	1,103	2,100	997	2,906	2,525	-381
2021	3,612	4,521	909	2,628	2,905	277	4,066	4,200	134	1,320	6,060	4,740
2022	3,610	4,521	911	2,630	2,905	275	3,849	4,200	351	1,537	6,060	4,523
2023	11,049	11,957	908	2,627	2,905	278	3,845	4,200	355	1,540	6,060	4,520
2024	11,051	11,961	909	8,425	8,702	277	3,851	4,200	349	1,535	6,060	4,524
2025	7,224	8,133	908	6,072	6,349	277	3,851	4,200	349	1,534	6,060	4,526
2026	7,223	8,131	908	6,072	6,350	278	9,735	9,996	261	1,447	6,060	4,612
2027	7,226	8,133	908	6,071	6,351	279	9,739	9,997	257	1,444	6,060	4,615
2028	7,216	8,124	909	6,070	6,351	281	9,739	9,996	257	1,447	6,060	4,613
2029	7,224	8,134	910	6,069	6,351	282	7,445	7,732	287	1,479	6,060	4,581
2030	7,220	8,130	910	6,071	6,351	280	7,449	7,735	286	1,477	6,060	4,583
2031	7,223	8,133	909	6,073	6,351	278	7,455	7,736	281	1,468	6,060	4,592
2032	7,222	8,130	908	6,066	6,349	282	7,453	7,731	279	1,469	6,060	4,591
2033	7,222	8,130	908	6,073	6,348	275	7,452	7,731	279	1,462	6,060	4,598
2034	7,225	8,134	909	6,070	6,350	279	7,455	7,732	278	1,466	6,060	4,594
2035	7,221	8,134	912	6,073	6,349	276	7,457	7,731	275	1,463	6,060	4,597
2036	7,222	8,130	908	7,337	7,464	127	7,429	7,728	299	1,334	6,060	4,726
2037	7,223	8,133	910	7,337	7,461	123	7,442	7,734	292	1,326	6,060	4,734
2038				7,337	7,463	127	7,534	7,735	200	327	6,060	5,733
2039							7,536	7,734	198	198	6,060	5,862
2040							7,536	7,732	195	195	6,060	5,865

<sup>1</sup>Old DS excludes debt service on existing bonds



28

Attachment C

### About the Blue Rose / Disclaimer



#### About the Blue Rose

The blue rose, which does not exist in nature, symbolizes that which is rare and difficult to obtain. The color blue represents opportunities and new beginnings, and so the blue rose conveys the excitement and possibilities of a new venture. Blue also is the color associated with those who are analytical, intelligent, responsible, optimistic and practical, traits we value and encourage in our professionals. At Blue Rose Capital Advisors, it is our goal to seek out new opportunities for our clients, and with meticulous and enthusiastic service, help them create optimal solutions and overcome their most formidable challenges.

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# **Fitch**Ratings

### Fitch Affirms Miami University, OH Revs at 'AA'; Outlook Stable

Fitch Ratings - New York - 11 February 2020:

Fitch has assigned an Issuer Default Rating (IDR) of 'AA' to Miami University, and has affirmed the 'AA' ratings on approximately \$578.5 million of the university's outstanding general receipts revenue bonds.

The Rating Outlook is Stable.

#### SECURITY

General receipts revenue bonds are secured by a pledge of the university's general receipts, which are primarily composed of tuition and fees, net auxiliary revenues, revenues from educational activities, unrestricted gifts and investment income.

#### ANALYTICAL CONCLUSION

The 'AA' IDR and bond rating reflect Fitch's expectation that Miami will maintain very strong credit quality despite slowing revenue growth trends that are expected to continue. The university has very strong demand with a broad student draw, excellent cost management resulting in robust cash flow, and decreasing capex needs after a period of heightened campus and strategic investment. These strengths give Miami ample flexibility to address revenue challenges including unfavorable population growth trends in key markets and constraints on tuition rate increases. MU's financial profile also supports the 'AA' rating; the university has a strong leverage position for its operating profile, and a large resource base offsets its relatively high debt load.

#### **KEY RATING DRIVERS**

#### Revenue Defensibility:: 'a'

Very Strong Demand but Slowing Revenue Growth

Miami has very strong student demand with generally stable enrollment, a wide draw and very high student quality. However, unfavorable regional population trends and limitations on tuition increases for Ohio residents will constrain revenue growth. Strategic investment in new programs and Miami's nearly 40% non-resident student base should support continued but more modest revenue growth compared to robust historical trends.

Other funding sources add stability to Miami's revenue base but would not fully counter potential volatility in net student fees, which account for 78% of revenues.

Operating Risk:: 'aa'

Robust Cash Flow Supports Capital and Debt Costs

Fitch expects the university will maintain robust cash flow, which should support capital and strategic investments while limiting new debt. Miami has a track record of exceptional cost management and is currently accelerating a longer-term cost reduction strategy to offset the expected slowdown in revenue growth. Capital spending needs are manageable and should not drive an increase in leverage. The university invested heavily in campus facilities in recent years and now has good flexibility to address most spending requirements from cash flow.

#### Financial Profile:: 'aa'

Large Resource Base Supports Debt Load

Miami's financial position has improved steadily over time, and its resource base provides a strong cushion to weather changes in its business environment. Available funds (cash and investments across the university and foundation, less certain restricted net assets and unspent bond proceeds) equal a strong 74% of adjusted debt (including Fitch-adjusted pension liabilities). Fitch expects Miami's leverage position will hold generally steady due to slowing capital debt issuance, front-loaded principal amortization and efforts by the state to contain costs and liabilities related to its defined benefit pension plans.

#### Asymmetric Additional Risk Considerations

No asymmetric additional risk considerations affected the ratings.

#### **RATING SENSITIVITIES**

Developments That May, Individually or Collectively, Lead to a Negative Rating Action:

--Intensifying pricing constraints or pressure driving sustained declines in net tuition-per-FTE or total net student revenues could weaken financial performance and the rating over time if not offset by development of new revenue sources and continued proactive cost management. A decline in cash flow margins toward the 12%-15% range or lower could also trigger negative rating action.

--Deterioration of Miami's leverage position such that available funds-to-adjusted debt falls sustainably below about 55%, potentially driven by a notable and unexpected expansion of capital and/or debt plans without commensurate resource growth.

Developments That May, Individually or Collectively, Lead to a Positive Rating Action:

--Although unlikely in the medium term, improvement in the university's leverage position such that available funds-to-adjusted debt would consistently exceed 100% or better through a stress scenario could support positive rating action over time.

#### CREDIT PROFILE

MU is the second oldest public university in the state of Ohio, opened in 1824. The university serves nearly 20,000 students, primarily traditional full-time undergraduates and approximately 40% from outside Ohio, at its well-maintained main campus in Oxford, OH. The university serves over 24,000 students in total at Oxford, at its two regional campuses in Hamilton and Middletown, OH, learning center in West Chester, OH and campus in Luxembourg.

#### **Revenue Defensibility**

The university maintains generally stable enrollment, with fall 2019 FTE totaling 22,094 at all campuses and 18,642 at Oxford. Enrollment at Oxford, which drives financial results, fell slightly (less than 1%) in fall 2019, after a long trend of incremental growth, due to softer international enrollment and an increasing trend of early graduations. However, Fitch expects continued stable enrollment over time based on larger incoming classes and strong retention.

A strong enrollment track record drives Fitch's opinion of very strong student demand despite more moderate admissions metrics including acceptance and matriculation rates around 80% and 20%, respectively. These metrics reflect some self-selection among applicants due to Miami's strong reputation and differentiated role within Ohio as a well-known liberal arts institution, as well as competition for non-resident students with other highly regarded institutions. In addition, the university has maintained a trend of larger incoming classes in recent years while maintaining very high student quality and retention rates.

Miami's very strong market position along with strategic program development should support generally stable enrollment despite a shrinking traditional student population in Ohio and in certain key out-of-state regions. Key strategies to offset unfavorable demographic trends include developing new programs and tracks, offering fouryear degrees at the regional campuses and diversifying the school's international student draw.

Incremental growth in new programs and continued moderate tuition increases should drive continued though slower growth in net student revenues, which account for 78% of operating revenue. Growth in in-state student fees is constrained somewhat by the Miami Tuition Promise program, which guarantees flat tuition, room and board and other fees for four years for first-time undergraduates and ties increases between cohorts to inflation. The regulatory environment also limits pricing power, as the legislature has in recent years imposed explicit

freezes or in-practice constraints on tuition and fee rates that would have applied to Miami had it not already implemented a four-year price guarantee. Other sources including state appropriations (11% of revenue), gifts and investment returns (including a sustainable endowment draw) help stabilize Miami's revenue base. However, these sources are unlikely to fully counter potential volatility in net student fee revenues.

Miami has produced robust and very consistent operating cash flow margins ranging from 19% to 22% over the past five years. Margins may compress slightly in coming years as revenue growth slows, but Fitch expects the university will maintain very strong financial performance based on its demonstrated cost management capabilities and effective financial planning. To align expense growth with expectations for slower revenue growth going forward, the university recently accelerated a previously five-year plan to achieve further cost savings and maintain operating flexibility.

The university has invested heavily in capital improvements over the past five years, especially in replacing and renovating housing and dining facilities to support its freshman and sophomore residency requirement. Capital investment has totaled 270% of depreciation over this period, driving Miami's average age of plant down toward 12 years in 2019 compared to 14 years in 2015. After accelerating certain debt-funded projects for its housing and dining master plan as part of the series 2017 issuance, the pace of debt issuance is now set to slow. Work to address deferred maintenance needs, including further needs related to the housing and dining master plan, will continue, but MU has made substantial progress and now has flexibility to cover annual spending requirements largely from cash flow.

#### **Financial Profile**

Miami's resource base has grown over time from retained cash flow, fundraising and investment returns. Available funds totaled \$902 million at June 30, 2019, up approximately 21% since 2015 despite heavy capital investment over that period. These resources provide a sound cushion relative to adjusted debt of 74%. The university's adjusted debt was \$1.2 billion in 2019, effectively flat to 2015 levels due to significant amortization that offset the series 2017 new money issuance. Adjusted debt consists of \$659 million of general receipts bonds, premium and capital leases, and approximately \$554 million of Fitch-adjusted net pension liability.

Fitch expects the university's leverage position will remain generally stable due to continued strong cash flow and fundraising efforts, an expected slower rate of capital debt issuance and an aggressive amortization schedule for existing debt. Potential new money debt plans over the next two years are moderate, related to academic projects expected to total around \$150 million. Miami does not expect material drawdowns of available funds for capital or strategic projects, and Fitch does not expect the university's participation in two of Ohio's statewide multiemployer plans to affect its overall leverage position materially. Plan reforms in recent years, including eliminating COLAs, lowering benefits and shifting statutory contributions to pensions from OPEB, have contained liabilities and raised the likelihood of funding improvement if assumptions are met.

Liquidity and debt service coverage are sound and present no asymmetric risk to the university's financial profile. Available funds covered operating expenses by a strong 138% in fiscal 2019, and Miami's robust cash flow generates solid debt service coverage consistently above 2x despite its front-loaded principal amortization and resulting higher carrying costs.

In addition to the sources of information identified in Fitch's applicable criteria specified below, this action was informed by information from Lumesis.

#### **ESG Considerations**

Unless otherwise disclosed in this section, the highest level of ESG credit relevance is a score of 3 - ESG issues are credit neutral or have only a minimal credit impact on the entity, either due to their nature or the way in which they are being managed by the entity.

For more information on Fitch's ESG Relevance Scores, visit www.fitchratings.com/esg.

	RATING ACTIONS	
ENTITY/DEBT	RATING	PRIOR
Miami University (OH)	LT IDR AA <b>O</b> New Rating	
Miami University (OH) /General Revenues/1 LT	LT AA <b>●</b> Affirmed	AA <b>O</b>

Additional information is available on www.fitchratings.com

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#### **Applicable Criteria**

U.S. Public Finance College and University Rating Criteria (pub. 03 Jun 2019) Public Sector, Revenue-Supported Entities Rating Criteria (pub. 07 Nov 2019)

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## **New Debt Authorization**



Attachment C

Overall Page 97 of 190

Attachment Page 46 of 93

### Funding Plan for New Academic Buildings

Project or Source	<u>Cost</u>
Clinical Health Science Building	\$96,000,000
Digital Innovation Building	<u>60,000,000</u>
Total Commitment	\$156,000,000
Exisitng Source of Funding:	
Previous Funding	\$5,000,000
Ohio Appropriation	21,000,000
Current Tri-Health Commitment	3,000,000
Funds Designated for Health Center Renovation	<u>4,500,000</u>
Current Unmet Cost of Construction	\$ 122,500,000
New Debt	<u>125,000,000</u>
Funds Available for Contingency or Other Projects	<u>\$2,500,000</u>



Attachment C

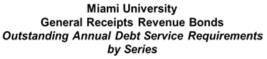
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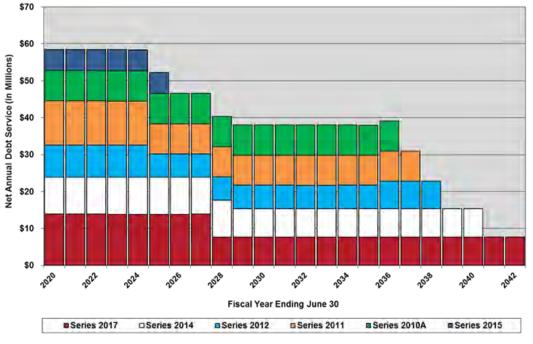
### **New Building Financing Scenarios**

	Base	Best	Worst
Risk Assumptions Lowest Interest Rate	Case	Case	Case
Volatility but Highest Carrying Cost			
	\$7.0 million	\$6.75 million	\$7.25 million
	\$26.04 million	\$13.27 million	\$54.42 million
	\$25 million	\$50 million	\$-0-
Greatest Interest Rate Volatility but Lower Carrying Cost			
	\$7.0 million	\$6.50 million	\$7.50 million
	\$19.04 million	\$6.02 million	\$47.54 million
	\$25 million	\$50 million	\$-0- MIAMI UNIVERSITY
	Lowest Interest Rate Volatility but Highest Carrying Cost Greatest Interest Rate Volatility	Risk Assumptions       Case         Lowest Interest Rate	Risk Assumptions Lowest Interest Rate Volatility but Highest Carrying CostCase \$7.0 million\$6.75 million\$7.0 million\$6.75 million\$26.04 million\$13.27 million\$25 million\$50 million\$25 million\$50 million\$7.0 million\$6.50 million\$7.0 million\$6.50 million\$19.04 million\$6.02 million

Overall Page 99 of 190

Attachment Page 48 of 93

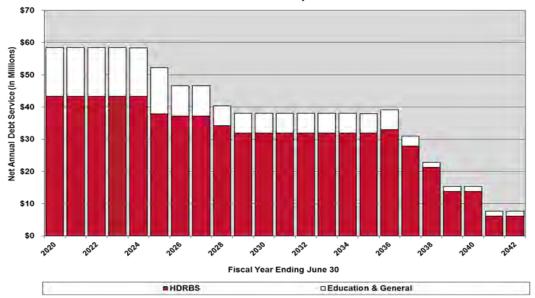






Attachment Page 49 of 93

#### Miami University General Receipts Revenue Bonds Outstanding Annual Debt Service Requirements HDRBS & General Fund Principal & Interest Allocation





#### Capital Projects and Bond Funding SVP Creamer

Prepared By Blue Rose Capital Advisors, LLC

			Moody's Public Higher Education Medians Fiscal Year 2018							+\$1		Jniversity Money in FY	2020				
Key Capital Ratios	Desired Trend	Aai	Aa2	Aa3	A1	A2	A3	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Spendable Cash & Investments to Total Debt (x)	Ŷ	2.20	1.30	1.30	1.20	0.50	0.80	1.84	1.64	1.76	1.90	2.06	2.25	2.45	2.66	2.91	3.16
Total Cash & investments to Total Debt (x)	Ť	2.90	1.90	1.70	1.60	0.70	1.20	2.36	2.10	2.25	2.43	2.64	2.89	3.15	3.41	3.73	4.06
Total Debt to Cash Flow (x)	¥	3.30	4.70	5.30	5.60	8.70	8.90	3.70	4.23	4.02	3.80	3.57	3.33	3.12	2.93	2.73	2.57
Annual Debt Service Coverage (x)	Ŷ	3.90	3.00	2.70	2.20	1.70	1.90	2.86	2.82	2.56	2.50	2.50	2.50	2.76	3.04	3.04	3.44
Total Debt to Operating Revenue (x)	Ŷ	0.40	0.60	0.60	0.60	0.90	0.70	0.89	1.01	0.97	0.91	0.86	0.80	0.75	0.70	0.66	0.62
Debt Service to Operating Expenses (%)	¥	3.40	3.90	4.40	4.80	6.30	4.60	9.43	9.54	10.43	10.73	10.76	10.78	9.80	8.90	8.92	7.92
						Wei	ghted Score	4.95	5.14	5.41	5.50	5.48	5.46	4.99	4.60	4.58	4.26
Median Population Size (#)		12	30	47	50	21	11										

\*In some cases, the Aa2 and A3 median ratios do not follow the same linear progression as the other rating medians. Therefore when estimating the rating outcome, a subjective view was implemented. Median data is sourced from Moody's MFRA database as of September 2019.



Attachment Page 51 of 93

#### Capital Projects and Bond Funding SVP Creamer

Prepared By Blue Rose Capital Advisors, LLC

			Moody's	Public High Fiscal Y	er Educatio ear 2018	n Medians					+\$1		Jniversity Money in FY	2020			
Key Capital Ratios	Desired Trend	Aai	Aa2	Aa3	A1	A2	A3	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Spendable Cash & Investments to Total Debt (x	1	2.20	1.30	1.30	1.20	0.50	0.80	1.84	1.74	1.87	2.02	2.20	2.42	2.64	2.88	3.16	3.45
Total Cash & investments to Total Debt (x)	↑	2.90	1.90	1.70	1.60	0.70	1.20	2.36	2.23	2.39	2.59	2.82	3.10	3.39	3.69	4.05	4.42
Total Debt to Cash Flow (x)	Ŷ	3.30	4.70	5.30	5.60	8.70	8.90	3.70	3.99	3.78	3.57	3.34	3.10	2.89	2.71	2.52	2.36
Annual Debt Service Coverage (x)	Ŷ	3.90	3.00	2.70	2.20	1.70	1.90	2.86	2.82	2.64	2.60	2.60	2.60	2.88	3.19	3.19	3.63
Total Debt to Operating Revenue (x)	¥	0.40	0.60	0.60	0.60	0.90	0.70	0.89	0.96	0.91	0.86	0.80	0.74	0.69	0.65	0.60	0.57
Debt Service to Operating Expenses (%)	Ŷ	3.40	3.90	4.40	4.80	6.30	4.60	9.43	9.54	10.14	10.35	10.37	10.40	9.41	8.51	8.53	7.52
						We	ighted Score	4.95	5.04	5.26	5.32	5.30	5.23	4.80	4.45	4,44	4.11
Median Population Size (#)		12	30	47	50	21	11										

\*In some cases, the Aa2 and A3 median ratios do not follow the same linear progression as the other rating medians. Therefore when estimating the rating outcome, a subjective view was implemented. Median data is sourced from Moody's MFRA database as of September 2019.



Attachment Page 52 of 93

### Miami University Fitch Rating February 2020

- AA Stable Outlook
- "Miami will maintain a very strong credit quality despite slowing revenue growth."
- "Robust cash flow supports capital and debt costs. Resource base provides a strong cushion to weather changes."
- "Intensifying pricing constraints or pressure driving sustained declines in net tuition revenue per FTE or total net student revenues could weaken financial performance and the rating over time."



Attachment C

### Miami University History of Total Issuance Cost Rates Maturity = 25 years

<u>2011</u>	<u>2012</u>	<u>2014</u>	<u>2017</u>	<u>2020</u>
4.266%	3.130%	3.570%	3.638%	2.750%

Estimate of Insurance Cost = 53 basis points times proceeds for issuance of \$125 million

Opportunity Cost =

6.5 % to 7.5% rate of return on non-endowment long-term pool



Attachment C

### New Debit Authorization Issues to Consider in Timing New Debt

- Cash Flow Requirements
  - As early as summer 2020 or as late as spring 2021
  - Carry costs for early issuance due to low short-term rates
- Market Risks
  - Rates very near historic low
  - Enrollment declines across higher education could affect the outlook for the industry and Miami specifically
  - Artificially low rates are more vulnerable to market changes
- Other Factors
  - Refunding opportunities
  - Debt service impact on reserves
  - Size of the issue(s) and impact on issuance costs



# **Questions?**



Attachment C

Overall Page 107 of 190

Attachment Page 56 of 93

### Finance & Audit Committee Presentation

### February 20, 2020



Attachment C

Overall Page 108 of 190

Attachment Page 57 of 93

# **Capital Projects**



Attachment C

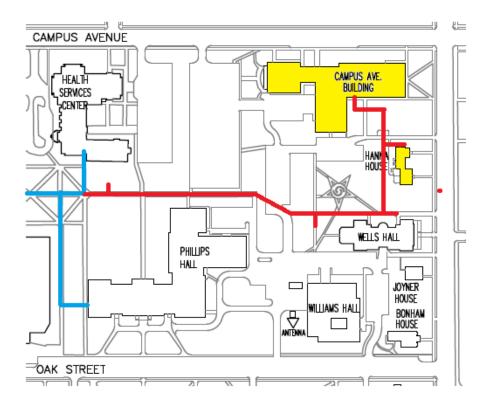
Overall Page 109 of 190

Attachment Page 58 of 93

February 20, 2020

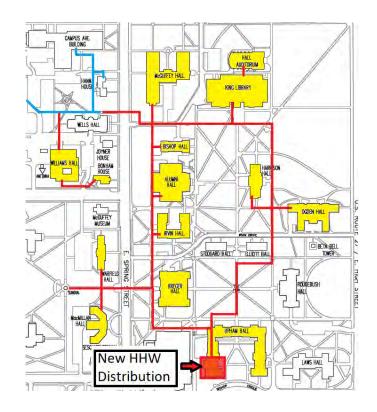
# South Quad Hot Water Conversion Phase 2 - 2020

- Addresses deferred maintenance
- Replaces roof top chiller
- Replaces failing steam piping
- Reduces maintenance labor
- Improves energy efficiency



# **Central Campus Hot Water Conversion - 2022**

- Addresses deferred maintenance in campus buildings
- Improves redundancy in infrastructure
- Reduces energy consumption
  - 100.9 KBTU/GSF in 2019
  - Anticipate 92 KBTU/GSF in 2022



February 20, 2020

# **KBTU/GSF Future Progress Chart**





BOARD OF TRUSTEES ROUDEBUSH HALL ROOM 212 OXFORD, OHIO 45056 (513) 529-6225 MAIN (513) 529-3911 FAX WWW. MIAMIOH.EDU

Finance and Audit February 21, 2020

#### **RESOLUTION R2020-33**

WHEREAS, a five year campus master plan has been developed that aligns with Miami University's strategic plan and academic program priorities; and

WHEREAS, the campus master plan includes the construction of new buildings for planned growth in clinical health and digital science programs and renovated spaces that will better meet the needs of the University's liberal arts and honors programs; and

WHEREAS, the University continues to experience strong demand for the Oxford campus' nursing and speech pathology and audiology programs; and

WHEREAS, the Provost through the Boldly Creative initiative has awarded funding to establish a Physician's Assistant program on the Oxford campus; and

WHEREAS, a comprehensive facility programming effort has identified value in co-locating clinical health programs and other services such as the Health Services Center in a health district; and

WHEREAS, a new Clinical Health Sciences facility would house Nursing, Physician's Assistant, Speech Pathology and Audiology, and a student and employee Health Services Center; and

WHEREAS, Miami University has determined that reduced costs, speed of implementation, and coordination may be gained by using the Design Build project delivery method; and

WHEREAS, the total project budget of \$96,000,000 includes the cost to renovate Harris Hall as swing space for the existing Health Service Center which Miami University's Board of Trustees previously approved with a budget of \$6,200,000; and

WHEREAS, the receipt of the Guaranteed Maximum Price (GMP) for the Clinical Health Sciences Facility will occur in phases with the earliest package planned for February 2020;

NOW, THEREFORE, BE IT RESOLVED: that the Board of Trustees authorizes the Senior Vice President for Finance and Business Services and Treasurer, to proceed with the award of the contracts for the Clinical Health Sciences facility project for a total budget not to exceed \$96,000,000, including the Harris Hall swing space renovation; and

BE IT FURTHER RESOLVED: that the construction of this building and the completion of the balance of the five-year campus master plan will require Miami University to issue additional debt and while such debt is expected to be authorized by the Board of Trustees, the Senior Vice President for Finance and Business Services shall consult with both the Chair of the Board of Trustees and the Chair of the Finance and Audit Committee on the sizing and timing of each new debt obligation, up to the amount authorized, prior to proceeding with any new debt.

Approved by the Board of Trustees February 21, 2020

T. O. Pickerill II

Secretary to the Board of Trustees

#### Executive Summary for the <u>Clinical Health Science Facility</u> February 20, 2020

The U.S. Department of Labor's Bureau of Labor Statistics and Ohio's Department of Job and Family Services 2026 Employment Projections identified health care professions "to be among the fastest growing occupational groups during the decade." In recognition of this trend, the recently completed strategic plan established health science fields as a priority for the University with a nursing major once again being offered on the Oxford campus and planning for a Physician's Assistant Program now underway.

A committee of representatives from Biology, Chemistry, Kinesiology and Health, Gerontology, Nursing, Speech Pathology and Audiology was formed to recommend how to advance the Clinical Health Sciences on the Oxford campus. The committee identified synergies among programs and a set of common goals including a focus on holistic human health and a desire for students to have an inter-professional experience that could be accomplished through a health district that includes an additional building to house new and growing programs in the health sciences. These programs include Nursing, Physician's Assistant, Speech Pathology and Audiology, and the University's existing Health Services Center.

The evaluation of the site analysis data in conjunction with future program goals has identified an optimal building site near Phillips Hall, the South Campus Parking Garage, the Recreational Sports Center, and the Goggin Ice Center. The site complements a vision of a new health district on the Oxford campus.

The building is expected to be about 170,000 gross square feet in size and offer state of the art opportunities for students and faculty in the clinical health sciences. Construction is expected to begin in the late spring or early summer of 2020 and be complete by the summer of 2022.

Project component:	Budget:	Funding Source:
Est. Cost of Harris Hall Reno: Est. Design and Administration: Est. Cost of Work: Est. Owner's Costs: Est. Contingency:	\$6,200,000 \$5,675,000 \$70,125,000 \$7,000,000 <u>\$7,000,000</u>	Local Funding Local Funding State and Local Funding Local Funding Local Funding
Est. Total:	\$ 96,000,000	



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Finance and Audit February 21, 2020

### **RESOLUTION R2020-34**

WHEREAS, the South Chiller Plant Conversion Phase 2 project is the next phase of the Utility Master Plan and a necessary step in fulling the University's Sustainability Commitments and Goals; and

WHEREAS, Miami University has identified local funds in the amount of \$4,000,000 for this project; and

WHEREAS, the \$4,000,000 budget includes a cost of work estimate of approximately \$3,200,000; and

WHEREAS, the receipt of Guaranteed Maximum Price is planned for February 2020; and

WHEREAS, the Board of Trustees previously awarded a contract for Phase 1 to the most responsive and responsible Design Build Firm;

NOW, THEREFORE, BE IT RESOLVED: that the Board of Trustees hereby authorizes the Senior Vice President for Finance and Business Services and Treasurer, to proceed with the award of contracts for the South Chiller Plant Conversion Phase 2 project with a total project budget not to exceed \$4,000,000.

Approved by the Board of Trustees February 21, 2020

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T. O. Pickerill II Secretary to the Board of Trustees

Executive Summary for the South Chiller Plant Conversion Phase 2 February 20, 2020

As part of the Campus utility master Plan, Miami University recently converted the South Chiller Plant to simultaneous heating and cooling. Several buildings were converted to accept heating-hot water and chilled water as part of Phase 1. The second phase of this project will address the remaining buildings in this region of campus. This project is a key step in the Utility Master Plan to meet strategic energy reduction and campus sustainability goals of decommissioning the coal-fired steam systems by 2026.

This project includes further conveyance of hot water and chilled water piping in an existing tunnel and direct buried piping from Phase 1 north to Spring Street. This infrastructure improvement is the next step in creating a redundant loop to the central quadrangle of campus and supports future building sites in the newly created Health District.

The Campus Avenue Building will be connected to hot water and chilled water piping and its mechanical equipment will be converted to accept this form of heating and cooling. Currently, the Campus Avenue Building is cooled by a large roof-top chiller that is past its useful life and has been unreliable. Converting the building to central simultaneous heating and cooling will improve the energy efficiency, reduce the carbon footprint, and improve the reliability of service. The project is also currently budgeted to convert Hanna House to simultaneous heating and cooling. The engineering team will evaluate the life cycle cost of this work and determine if an appropriate return on investment exists as part of the design effort.

Project component:	Budget:	Funding Source:
Est. Design and Administration: Est. Cost of Work: Est. Owner's Costs: Est. Contingency:	\$350,000 \$3,200,000 \$140,000 <u>\$310,000</u>	Local Funding Local Funding Local Funding Local Funding
Est. Total:	\$ 4,000,000	



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Finance and Audit February 21, 2020

### **RESOLUTION R2020-35**

WHEREAS, Miami University's Strategic Plan has identified the need to expand and enhance health sciences program offerings; and

WHEREAS, the University continues to experience strong demand for the nursing program on the Hamilton Campus, where the Department has just celebrated its 50<sup>th</sup> year; and

WHEREAS, the renovation of University Hall will provide state-of-the-art educational and laboratory spaces for nursing students on the Hamilton Campus that will align with those in the new Clinical Health Sciences facility being constructed on the Oxford Campus; and

WHEREAS, Miami University has determined that reduced costs, speed of implementation, and coordination may be gained by using the Design-Build project delivery method; and

WHEREAS, Miami University has identified funds in the amount of \$10,000,000 for the University Hall Renovation project; and

WHEREAS, the receipt of Guaranteed Maximum Price (GMP) for the University Hall Renovation is planned for February 2020;

NOW, THEREFORE, BE IT RESOLVED: that the Board of Trustees authorizes the Senior Vice President for Finance and Business Services and Treasurer, to proceed with signing of the GMP for the University Hall Renovation with a budget not to exceed \$10,000,000.

Approved by the Board of Trustees February 21, 2020

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T. O. Pickerill II Secretary to the Board of Trustees

Executive Summary for the <u>University Hall</u> February 20, 2020

Miami University's Nursing Department is centered on the Hamilton Campus. The program is 50 years old and has recently consolidated its regional presence in Hamilton and simultaneously expanded to the Oxford Campus. This project will bring the regional location up-to-date and more closely aligned with the facility being designed on the Oxford campus.

This project will renovate University Hall to provide students and faculty a state-of-the-art educational facility with high fidelity simulation and skills laboratory spaces, flexible and technologically-integrated classrooms and study spaces, as well as the necessary administrative and faculty spaces needed to support the program now and into the future.

The renovation of University Hall will focus on three primary priorities, building infrastructure upgrades and deferred maintenance, interior renovations and improvements, and exterior enhancement. This two-phased project is planned to begin in May 2020 and complete in February 2021.

Project component:	Budget:	Funding Source:
Est. Design and Administration: Est. Cost of Work: Est. Owner's Costs: Est. Contingency:	\$ 600,000 \$ 7,900,000 \$ 800,000 <u>\$ 700,000</u>	Local Funding Local Funding Local Funding Local Funding
Est. Total:	\$ 10,000,000	

February 20, 2020



Approved by the Board of Trustees, February 21, 2020

T. O. Pickerill II Secretary to the I

T. O. Pickerill II Secretary to the Board of Trustees

**SERIES RESOLUTION R-2020-36** 

PROVIDING FOR THE AUTHORIZATION, ISSUANCE AND SALE OF NOT TO EXCEED \$125,000,000 OF GENERAL RECEIPTS REVENUE BONDS, SERIES 2020, OF MIAMI UNIVERSITY, APPROVING A SUPPLEMENTAL TRUST AGREEMENT AND AUTHORIZING THE FISCAL OFFICER TO TAKE CERTAIN ACTIONS.

WHEREAS, Resolution 2004-8 adopted by this Board on September 26, 2003 (the "General Bond Resolution"), and the Amended and Restated Trust Agreement dated as of October 1, 2003, as amended (the "Trust Agreement"), by and between the University and The Bank of New York Mellon Trust Company, N.A., as trustee (the "Trustee") provide for the issuance from time to time of Bonds of the University, with each issuance to be authorized by a Series Resolution adopted by the Board; and

WHEREAS, the General Bond Resolution was adopted and the Trust Agreement was authorized by the Board pursuant to the Act which authorizes the University to issue its Bonds to pay costs of certain capital facilities, defined as "auxiliary facilities," "education facilities" and "housing and dining facilities" in Section 3345.12 of the Revised Code and collectively called "University Facilities" in the General Bond Resolution and in this Resolution; and

WHEREAS, the University has determined, and hereby confirms, that it is necessary and appropriate to issue its General Receipts Revenue Bonds to fund (i) the renovation and construction of academic facilities, including, but not limited to, Bachelor Hall and Upham Hall which are located on the Oxford campus; (ii) the acquisition, construction, equipping and/or furnishing of a new health sciences building and a new digital innovation multidisciplinary building at the Oxford campus; (iii) other eligible capital projects approved by the Board; and (iv) payment of a portion of the costs associated with such issuance (the above-listed projects are collectively referred to as the "Series 2020 University Facilities Project" or "Project"); and

WHEREAS, for the above purposes, the University has determined to issue not to exceed \$125,000,000 in aggregate principal amount of General Receipts Revenue Bonds (the "Series 2020 Bonds") to pay a portion of the costs of the Project, including the reimbursement to the University of moneys advanced to finance the cost of University Facilities in anticipation of being reimbursed from the proceeds of such Series 2020 Bonds; and

WHEREAS, the Board anticipates that it will authorize the issuance of the University's refunding bonds (the "General Receipts Revenue Refunding Bonds") to refund all or a portion of its outstanding Bonds; and

WHEREAS, the Board hereby determines that it is in the best interest of the University to provide for maximum flexibility in structuring the Series 2020 Bonds to achieve maximum cost savings, and therefore, has provided that certain terms of the Series 2020 Bonds, including combining all or a portion of the Series 2020 Bonds with all or a portion of the General Receipts

BOARD OF TRUSTEES ROUDEBUSH HALL ROOM 212 OXFORD, OHIO 45056 (513) 529-6225 MAIN (513) 529-3911 FAX WWW.MIAMIOH.EDU

Finance and Audit February 20, 2021 Revenue Refunding Bonds, shall be determined in the Certificate of Award authorized pursuant to Section 5 hereof (the "Certificate of Award");

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF MIAMI UNIVERSITY, as follows:

Section 1. <u>Definitions and Interpretations</u>. Where used in this Resolution, in the Supplemental Trust Agreement authorized hereby and in the Certificate of Award, and in addition to words and terms defined elsewhere in this Resolution (including its preambles), the Supplemental Trust Agreement authorized hereby, the General Bond Resolution or the Trust Agreement, the following terms shall have the following meanings:

"Act" means Sections 3345.11 and 3345.12 of the Ohio Revised Code.

*"Annual Bond Service Charge"* for any Fiscal Year (as defined in the Trust Agreement) means, in connection with the Series 2020 Bonds, an amount equal to the scheduled principal and interest due on the Series 2020 Bonds in that Fiscal Year.

*"Bond Counsel"* means Dinsmore & Shohl LLP or such other firm of nationally recognized experts on the issuance of state and local obligations designated as such by the Fiscal Officer.

*"Bond Purchase Agreement"* means the Bond Purchase Agreement between the Original Purchaser and the University to be dated as of its date of execution.

*"Bond Year"* means the annual period relevant to the application of Section 148 of the Code to the Series 2020 Bonds.

"Certificate of Award" means the Certificate of Award authorized by Section 5 hereof.

"Code" means the Internal Revenue Code of 1986, as amended, the regulations (whether proposed, temporary or final) under that Code or the statutory predecessor of that Code, and any amendments of, or successor provisions to, the foregoing and any official rulings, announcements, notices, procedures and judicial determinations regarding any of the foregoing, all as and to the extent applicable. Unless otherwise indicated, reference to a section of the Code includes that section and such applicable regulations, rulings, announcements, notices, procedures and determinations pertinent to that section.

"Debt Service" means principal of and interest and any redemption premium on the Series 2020 Bonds.

"Delivery Date" means the date on which the Series 2020 Bonds are delivered to the Original Purchaser in exchange for payment.

*"Fiscal Officer"* means the Senior Vice President for Finance and Business Services and Treasurer of Miami University.

"General Counsel" means the chief legal officer of the University.

Attachment C

*"Interest Payment Dates"* means the first day of March and September in each year, commencing September 1, 2020 or such other date as may be provided in the Certificate of Award.

*"Issuance Date"* means the date of physical delivery of the Series 2020 Bonds by the University or the date of the "fast closing" in exchange for the purchase price of the Series 2020 Bonds.

*"Letter of Instructions"* means a letter addressed to the Trustee dated the Issuance Date and signed by the Fiscal Officer.

"Original Purchaser" means the investment banking firm selected by the Fiscal Officer.

"*Proceeds*" means any Original Proceeds from the sale of the Series 2020 Bonds and any Transferred Proceeds, as defined in Regulations 1.148-8(d)(2).

*"Securities Depository"* means initially The Depository Trust Company (a limited purpose trust company), New York, New York.

*"Series 2020 Bonds"* means the series of General Receipts Revenue Bonds authorized by this Resolution and issued pursuant to this Resolution, the General Bond Resolution, the Trust Agreement and the Certificate of Award.

"Series 2020 University Facilities Project" or "Project" means the University has determined, and hereby confirms, that it is necessary and appropriate to issue its General Receipts Bonds to fund (i) renovation and construction of housing facilities, dining facilities and other auxiliary buildings and related improvements including, but not limited to, Bachelor Hall and Upham Hall which are located on the Oxford campus; (ii) the acquisition, construction, equipping and/or furnishing of a new health sciences building and a new digital innovation multidisciplinary building at the Oxford campus; (iii) other eligible capital projects approved by the Board; and (iv) payment of a portion of the costs associated with such issuance.

"Series 2020 Resolution" or "Resolution" means this Resolution authorizing the issuance and sale of the Series 2020 Bonds.

*"Special Record Date"* means the date established by the Trustee in connection with the payment of any overdue interest on any Bond pursuant to Section 4(e)(ii) of this Resolution.

*"Supplemental Trust Agreement"* means the Supplemental Trust Agreement between the University and the Trustee, authorized pursuant to Section 7.01 of the Trust Agreement and this Resolution.

*"Tax Certificates"* means, collectively, the Certificate Regarding Issuance, Use of Proceeds and Arbitrage Compliance of the University to Bond Counsel and the Trustee and the Certificate Under Sections 103(b)(2) and 148 of the Internal Revenue Code of 1986, as amended, of the University.

*"Trustee"* means The Bank of New York Mellon Trust Company, N.A., as successor to J.P. Morgan Trust Company, National Association as trustee under the Trust Agreement.

"2020 University Facilities Costs of Issuance Fund" or "2020 Costs of Issuance Fund" means the fund established and held by the University used to pay certain costs related to the issuance of obligations for the Project that constitute "costs of facilities" as defined in the Act.

"2020 University Facilities Project Fund" or "2020 Project Fund" means the fund established and held by the University used to pay costs of the Project that constitute "costs of facilities" as defined in the Act.

Unless the context shall otherwise indicate, words importing the singular number shall include the plural number, and vice versa, and the terms "hereof," "herein," "hereby," "hereto," "hereunder," and similar terms, mean this Resolution and the Supplemental Trust Agreement. References to sections, unless otherwise stated, are to sections of this Resolution.

Section 2. <u>Authority</u>. This Resolution is adopted pursuant to the General Bond Resolution, the Trust Agreement and the Act.

Section 3. <u>Authorization, Designation and Purpose of Series 2020 Bonds</u>. It is hereby declared to be necessary to, and the University shall, issue, sell and deliver, as provided and authorized by this Resolution, General Receipts Bonds of the University, which shall be designated "Miami University General Receipts Revenue Bonds, Series 2020" (or such other designation set forth in the Certificate of Award) in the maximum original aggregate principal amount of not to exceed \$125,000,000 (the actual original aggregate principal amount to be as provided by the Certificate of Award), for the purpose of paying a portion of the costs of the University Facilities that comprise the Series 2020 University Facilities Project and paying a portion of the costs associated with the issuance. For that purpose, the proceeds from the sale of the Series 2020 Bonds shall be allocated and deposited as provided in Section 6 of this Resolution.

### Section 4. Terms and Provisions Applicable to the Series 2020 Bonds.

(a) <u>Form and Numbering</u>. The Series 2020 Bonds shall be issued, unless otherwise subsequently provided in the Supplemental Trust Agreement entered into pursuant to the Trust Agreement, only in the form of fully registered Bonds, substantially in the form set forth in Exhibit A to the Supplemental Trust Agreement with such changes as may be necessary to reflect the terms of the Series 2020 Bonds set forth in the Certificate of Award. The Series 2020 Bonds shall be fully registered and numbered as determined by the Fiscal Officer in such manner as to distinguish each Series 2020 Bond from each other Series 2020 Bond.

The Series 2020 Bonds shall be initially issued only to a Securities Depository to be held in a book entry system and: (i) the Series 2020 Bonds shall be registered in the name of the Securities Depository or its nominee, as registered owner, and immobilized in the custody of the Securities Depository; and (ii) the Series 2020 Bonds as such shall be transferable or exchangeable in accordance with Section 2.06 of the Trust Agreement, provided, however that so long as a book entry system is used for the Series 2020 Bonds, they may only be transferred to another Securities Depository or to another nominee of a Securities Depository without further action by the University pursuant to subparagraph (e)(iii) of this Section. Notwithstanding Section 2.06 of the Trust Agreement, the University may, and may require the Trustee to, transfer the Series 2020 Bonds from one Securities Depository to another Securities Depository at any time. (b) <u>Terms</u>.

(i) <u>Denomination and Dates</u>. The Series 2020 Bonds shall be issued in the denomination of \$5,000 and any integral multiple of \$5,000, and shall be dated as of the Delivery Date or such other date as may be provided in the Certificate of Award. Each Series 2020 Bond shall have only one principal maturity date, except for interim certificates or receipts which may be issued pending preparation of definitive Bonds.

(ii) <u>Interest</u>. The Series 2020 Bonds shall bear interest from the later of (i) their date or (ii) the most recent date to which interest has been paid or provided for, payable on the Interest Payment Dates at the respective rates per annum set forth in the Certificate of Award.

(iii) <u>Maturities</u>. The Series 2020 Bonds shall mature on March 1 and/or September 1 in the years and in the principal amounts as provided in the Certificate of Award, with the initial maturity and final maturity as set forth in section (c) below.

# (iv) <u>Prior Redemption</u>.

(A) The Series 2020 Bonds may be subject to redemption at the option of the University prior to their stated maturities on the redemption dates and at the redemption prices specified in the Certificate of Award. The Fiscal Officer may determine in the Certificate of Award that some or all of the Series 2020 Bonds are not to be callable prior to stated maturity. The Fiscal Officer further may determine in the Certificate of Award that a premium shall be payable to the bondholder upon early redemption of a Series 2020 Bond and that such premium may be calculated in a manner to make the bondholder whole for the loss of the investment or may be calculated as a percentage of the principal amount to be redeemed.

(B) The Series 2020 Bonds of one or more maturities may be subject to mandatory redemption pursuant to Mandatory Sinking Fund Requirements by the University at a redemption price equal to 100% of the principal amount redeemed, plus accrued interest to the date of redemption, on September 1 in the years and in the principal amounts provided in the Certificate of Award.

(v) <u>Construction Period</u>. Due to the complexity of the Series 2020 University Facilities Project, it is reasonably expected that the Series 2020 University Facilities Project, which involves a substantial amount of construction expenditures, will take longer than three (3) years to complete. In connection therewith, the University shall obtain a certificate from a licensed architect or engineer.

(c) <u>Maturities: Bond Service Charges</u>. The first maturity or mandatory sinking fund payment and the final maturity of the Series 2020 Bonds shall not be later than the dates specified in the Certificate of Award. Principal shall be payable in each year from the first maturity or mandatory sinking fund payment year to the final maturity year either at stated maturity or pursuant to Mandatory Sinking Fund Requirements. The weighted net interest cost on the Series 2020 Bonds shall not exceed 5% per annum. Annual Bond Service Charges on all the Series 2020 Bonds shall be in accordance with the Certificate of Award.

# (d) <u>Redemption Prior to Maturity</u>.

(i) If fewer than all of the outstanding Series 2020 Bonds are called for optional redemption at one time, the Series 2020 Bonds to be called shall be designated by the Fiscal Officer in his sole discretion and in any manner the Fiscal Officer determines, without regard to the order of their maturities or their interest rates. If fewer than all of the outstanding Series 2020 Bonds of one maturity and interest rate are to be called for redemption, the selection of the Series 2020 Bonds, or portions of those Series 2020 Bonds (in integral multiples of \$5,000), of that maturity to be called for redemption shall be made in the manner provided in the Supplemental Trust Agreement. If optional redemption of any Series 2020 Bonds at a redemption price above 100% of the principal amount to be redeemed is to take place on any applicable mandatory sinking fund redemption date, the selection of the Series 2020 Bonds to be optionally redeemed shall be selected prior to the selection of the Series 2020 Bonds to be redeemed by mandatory sinking fund redemption.

(ii) Notice of call for redemption of Series 2020 Bonds, setting forth the information provided for in Section 3.03 of the Trust Agreement, shall be given by the Trustee on behalf of the University. Failure to receive notice by mailing, or any defect in that notice, as to any Series 2020 Bond shall not affect the validity of the proceedings for the redemption of any other Series 2020 Bond.

(e) <u>Places and Manner of Payment and Paying Agents</u>.

(i) The principal of and any redemption premium on Series 2020 Bonds shall be payable when due only to the registered owners, upon presentation and surrender of the Series 2020 Bonds at the principal corporate trust office of the Trustee.

Interest on any Series 2020 Bond due on each Interest Payment Date shall (ii) be payable by check or draft which the Trustee shall cause to be mailed on the Interest Payment Date to the person who is the registered owner of the Bond (or one or more predecessor Bonds) at the close of business on the Regular Record Date applicable to that Interest Payment Date, at the address then appearing on the Register. If and to any extent, however, that the University shall make neither payment nor provision for payment of interest on any Series 2020 Bond on any Interest Payment Date, that interest shall cease to be payable to the person who was the registered owner of that Bond (or of one or more predecessor Bonds) as of the applicable Regular Record Date; when moneys become available for payment of that interest the Trustee shall, subject to Section 2.05 of the Trust Agreement, establish a Special Record Date for the payment of that interest which shall be not more than 15 or fewer than 10 days prior to the date of the proposed payment, and the Trustee shall cause notice of the proposed payment and of the Special Record Date to be mailed to the person who is the registered owner of that Bond on a date not fewer than 10 days prior to the Special Record Date, at the address as then appears on the Register, and thereafter that interest shall be payable to the person who is the registered owner of that Bond (or a predecessor Bond) at the close of business on the Special Record Date.

Notwithstanding any other provision of this Resolution or any provision of (iii) the General Bond Resolution, the Trust Agreement, the Supplemental Trust Agreement or any Series 2020 Bond to the contrary, with the written approval of the University, the Trustee may enter into an agreement with a Securities Depository, or the nominee of a Securities Depository that is the registered owner of a Series 2020 Bond in the custody of that Securities Depository providing for making all payments to that registered owner of principal of and interest and any premium on that Series 2020 Bond or any portion of that Series 2020 Bond (other than any payment of its entire unpaid principal amount) at a place and in a manner (including wire transfer of federal funds) other than as provided above in this Resolution, without prior presentation or surrender of the Series 2020 Bond, upon any conditions which shall be satisfactory to the Trustee and the University. That payment in any event shall be made to the person who is the registered owner of that Series 2020 Bond on the date that principal and premium is due, or, with respect to the payment of interest, as of the applicable Regular Record Date or Special Record Date or other date agreed upon, as the case may be. The Trustee will furnish a copy of each of those agreements, certified to be correct by an officer of the Trustee, to other authenticating agents and paying agents for Series 2020 Bonds, if any, and to the University. Any payment of principal, premium, or interest pursuant to such an agreement shall constitute payment thereof pursuant to, and for all purposes of, this Resolution and the Supplemental Trust Agreement.

(iv) Alternate Paying Agents may be designated in the Certificate of Award by the Fiscal Officer.

(f) <u>Execution and Authentication</u>. The Series 2020 Bonds shall be executed and authenticated in the manner provided in the Trust Agreement. Alternate Authenticating Agents may be designated by the Fiscal Officer in the Certificate of Award.

(g) <u>Multiple Series; Combine with General Receipts Revenue Refunding Bonds</u>. The Series 2020 Bonds may be issued in one or more series as approved by the Fiscal Officer and all or a portion of the Series 2020 Bonds may be combined with and issued as part of the same series of Bonds authorized by a separate Series Resolution, including, but not limited to the General Receipts Revenue Refunding Bonds.

### Section 5. Sale of Series 2020 Bonds.

(a) <u>General</u>. The Fiscal Officer is authorized to determine:

(i) that the Series 2020 Bonds shall be issued;

(ii) the Principal Amount of Series 2020 Bonds to be issued provided that the aggregate amount of Series 2020 Bonds shall not to exceed \$125,000,000;

(iii) the interest rates on the Series 2020 Bonds;

(iv) the amount of any original issue discount and/or premium on the Series 2020 Bonds;

(v) the maturities of the Series 2020 Bonds, as limited by Section 4(c) herein;

(vi) the optional and mandatory redemption dates, if any, and redemption prices for the Series 2020 Bonds; and

(vii) the purchase price for the Series 2020 Bonds.

The Series 2020 Bonds shall be sold by the Fiscal Officer to the Original Purchaser on such terms not inconsistent with this Resolution as are provided in the Certificate of Award and the Bond Purchase Agreement.

The Fiscal Officer is authorized and directed to execute the Certificate of Award and the Bond Purchase Agreement, in order to provide for the definitive terms and terms of sale of the Series 2020 Bonds as provided in this Resolution, and to award and provide for sale of the Series 2020 Bonds to the Original Purchaser. The Bond Purchase Agreement shall not be materially adverse to the University as shall be approved by the Fiscal Officer, his execution of the Bond Purchase Agreement to constitute conclusive approval of any such changes on behalf of the University. The Certificate of Award shall be incorporated in and form a part of the Supplemental Trust Agreement.

(b) <u>Official Statement</u>. The Fiscal Officer is authorized and directed, on behalf of the University, and in his official capacity, to prepare or cause to be prepared, a preliminary official statement relating to the original issuance of the Series 2020 Bonds; to determine, and to certify or otherwise represent, when such preliminary official statement is "deemed final" for purposes of Securities and Exchange Commission Rule 15c2-12(b)(1); and to use and distribute, or authorize the use and distribution of such preliminary official statement in connection with the original issuance of the Series 2020 Bonds until an official statement is prepared. All actions previously taken by the Fiscal Officer in this regard relating to a preliminary official statement are hereby approved, ratified and confirmed.

The Fiscal Officer is further authorized and directed, on behalf of the University, and in his official capacity, to prepare or cause to be prepared an official statement, and any necessary supplements thereto, relating to the original issuance of the Series 2020 Bonds; to determine, and to certify or otherwise represent, when such official statement is a final official statement for purposes of Securities and Exchange Commission Rule 15c2-12(b)(3) and (4); to use and distribute, or authorize the use and distribution of such official statement, and any supplements thereto, in connection with the sale of the Series 2020 Bonds; and to sign and deliver the official statement.

The Fiscal Officer is further authorized and directed, on behalf of the University, and in his official capacity, to sign and deliver such certificates in connection with the accuracy of the preliminary official and the final official statements and any supplements thereto as may, in his judgment, be necessary or appropriate.

(c) <u>Further Authorization</u>. The Fiscal Officer is further authorized and directed, on behalf of the University, and in his official capacity, to sign and deliver on the Issuance Date, such other certificates, agreements and documents as may be reasonably necessary in the opinion of Bond Counsel to complete the sale of the Series 2020 Bonds. The General Counsel in her official

capacity is hereby authorized and directed to sign and deliver on the Issuance Date a legal opinion in form and substance acceptable to Bond Counsel.

# Section 6. <u>Allocation of Proceeds of Series 2020 Bonds</u>.

(a) <u>Allocation</u>. All of the proceeds from the sale of the Series 2020 Bonds shall be received and receipted for by the Fiscal Officer or by his authorized representative for that purpose, and shall be allocated, deposited and credited as follows:

(i) To the Bond Service Account in the Bond Service Fund, any portion of the proceeds representing accrued or capitalized interest, if any;

(ii) To the 2020 Costs of Issuance Fund an amount, to be determined by the Fiscal Officer, to pay the costs of issuance of the Series 2020 Bonds; and

(iii) To the 2020 Project Fund, hereby established, the balance of the proceeds, to be applied to pay costs of the 2020 University Facilities Project as determined by the Fiscal Officer and as described in the preambles.

# (b) <u>2020 Project Fund</u>.

(i) The 2020 Project Fund shall be held by the University in a separate deposit account or accounts (except when invested as provided below) set up in a bank or banks that are members of the Federal Deposit Insurance Corporation, and used to pay costs of the Series 2020 University Facilities Project that constitute "costs of facilities" as defined in the Act (the "Project Costs").

(ii) The Fiscal Officer shall apply the 2020 Project Fund pursuant to the provisions of this Section 6 to the payment of the Project Costs, including, without limitation, the reimbursement of the University for moneys heretofore advanced to pay Project Costs in anticipation of the issuance of the Series 2020 Bonds.

(iii) Moneys to the credit of the 2020 Project Fund, pending their application as above set forth, shall be subject to a lien and charge in favor of the holders of the Series 2020 Bonds, and the University covenants that it will not cause or permit to be paid from the 2020 Project Fund any moneys except in compliance with the provisions of this Resolution, the Trust Agreement and the Supplemental Trust Agreement.

(iv) Moneys on deposit in the 2020 Project Fund may be invested by or at the direction of the Fiscal Officer in Eligible Investments (as defined in the Supplemental Trust Agreement) maturing or redeemable at the option of the holder prior to the time needed for the purposes thereof. The investments and the proceeds of their sale shall constitute part of the 2020 Project Fund, and earnings from any of those investments shall be credited to the 2020 Project Fund. The investments may be sold, exchanged or collected from time to time by or at the direction of the Fiscal Officer.

(v) Any balance remaining in the 2020 Project Fund after the Fiscal Officer has certified to the Trustee that payment of Project Costs has been accomplished or provided

for to the satisfaction of the University shall be deposited in the Bond Service Account and used for payment of principal on the Series 2020 Bonds, or expended for costs of University Facilities with the approval of the Board if that payment or expenditure shall not, in the opinion of Bond Counsel to the University, adversely affect the exclusion of interest on the Series 2020 Bonds from gross income for federal income tax purposes.

# (c) <u>2020 Costs of Issuance Fund</u>.

(i) The 2020 Costs of Issuance Fund shall be held by the University in a separate deposit account or accounts set up in a bank or banks that are members of the Federal Deposit Insurance Corporation, and used to pay costs of issuance of the Series 2020 Bonds that constitute "costs of facilities" as defined in the Act (the "Costs of Issuance").

(ii) The Fiscal Officer shall apply the 2020 Costs of Issuance Fund pursuant to the provisions of this Section 6 to the payment of the Costs of Issuance, including, without limitation, the reimbursement of the University for moneys heretofore advanced to pay Costs of Issuance in anticipation of the issuance of the Series 2020 Bonds.

(iii) Moneys to the credit of the 2020 Costs of Issuance Fund, pending their application as above set forth, shall be subject to a lien and charge in favor of the holders of the Series 2020 Bonds, and the University covenants that it will not cause or permit to be paid from the 2020 Costs of Issuance Fund any moneys except in compliance with the provisions of this Resolution, the Trust Agreement and the Supplemental Trust Agreement.

(iv) Moneys on deposit in the 2020 Costs of Issuance Fund may be invested by or at the direction of the Fiscal Officer in Eligible Investments (as defined in the Supplemental Trust Agreement) maturing or redeemable at the option of the holder prior to the time needed for the purposes thereof. The investments and the proceeds of their sale shall constitute part of the 2020 Costs of Issuance Fund, and earnings from any of those investments shall be credited to the 2020 Costs of Issuance Fund. The investments may be sold, exchanged or collected from time to time by or at the direction of the Fiscal Officer.

(v) Any balance remaining in the 2020 Costs of Issuance Fund after the Fiscal Officer has certified to the Trustee that payment of Costs of Issuance has been accomplished or provided for to the satisfaction of the University shall be deposited in the Bond Service Account and used for payment of principal on the Series 2020 Bonds, or expended for costs of University Facilities with the approval of the Board if that payment or expenditure shall not, in the opinion of Bond Counsel to the University, adversely affect the exclusion of interest on the Series 2020 Bonds from gross income for federal income tax purposes.

Section 7. <u>Tax Covenants; Rebate Fund</u>. This Board hereby finds and determines that all proceeds from the sale of the Series 2020 Bonds will be needed for the purposes set forth in Section 6 hereof.

(a) This Board hereby covenants for and on behalf of the University, that it will restrict the use of the proceeds of the Series 2020 Bonds in such manner and to such extent, if any, and

take such other actions as may be necessary, in view of reasonable expectations at the time of issuance of the Series 2020 Bonds, so that the Series 2020 Bonds will not constitute obligations the interest on which is subject to federal income taxation or "arbitrage bonds" under Sections 103(b)(2) and 148 of the Internal Revenue Code of 1986, as amended (the "Code"), and regulations prescribed under such Sections, provided that, at the discretion of the Fiscal Officer, the University may issue Series 2020 Bonds which are subject to federal income taxation. However, if the Series 2020 Bonds are designated as some type of tax-advantaged bond on which the interest is excludable from gross income for federal income tax purposes ("Tax-Advantaged Bonds"), the Board will take, or cause to be taken, all activities required to maintain the status of said Series 2020 Bonds as Tax-Advantaged Bonds, and will not take, or permit to be taken, any actions which would jeopardize the status of the Series 2020 Bonds as Tax-Advantaged Bonds. The Fiscal Officer or any other officer of the University having responsibility with respect to issuance of the Series 2020 Bonds is hereby authorized and directed to give an appropriate certificate for inclusion in the transcript of proceedings with respect to the Series 2020 Bonds, setting forth the facts, estimates and reasonable expectations pertinent under said Sections 103(b)(2) and 148 of the Code and regulations prescribed under such Sections.

(b) <u>Rebate Fund</u>. There is hereby created the Series 2020 Bonds Rebate Fund (the Rebate Fund), to be in the custody of the Trustee, which shall be continuously invested in Eligible Investments by the Trustee at the oral direction (confirmed in writing) of the Fiscal Officer. The Rebate Fund shall be held, administered and disposed of in accordance with the provisions of the Supplemental Trust Agreement and/or the Tax Certificates. Amounts credited to the Rebate Fund are not General Receipts and shall be free and clear of any lien under the Supplemental Trust Agreement.

Section 8. <u>Credit Enhancement</u>; Other Agreements. If he determines it to be in the best interest of the University in order to achieve maximum cost savings on the Series 2020 Bonds, the Fiscal Officer may obtain credit enhancement for all or any portion of the Series 2020 Bonds.

The Fiscal Officer is authorized to enter into such agreements and to make such changes to the Supplemental Trust Agreement and the Series 2020 Bond form as may be required in connection with such credit enhancement. The Fiscal Officer is further authorized to enter into such agreements and execute such certificates as may be required in connection with the issuance, sale and delivery of the Series 2020 Bonds.

Section 9. <u>Supplemental Trust Agreement</u>. The Chairman of the Board or the President of the University, and the Fiscal Officer, or any one or more of them, are authorized and directed to execute and deliver to the Trustee, in the name of and on behalf of the University, and the Secretary to the Board is authorized and directed to attest, a Supplemental Trust Agreement pursuant to the Trust Agreement and in connection with the issuance of the Series 2020 Bonds.

**Section 10.** <u>Open Meeting</u>. It is found and determined that all formal actions of this Board concerning and relating to the adoption of this Resolution were taken in an open meeting of this Board, and that all deliberations of this Board and of any of its committees that resulted in those formal actions were taken in meetings open to the public, in full compliance with applicable legal requirements including Section 121.22 of the Revised Code.

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# BOARD OF TRUSTEES OF MIAMI UNIVERSITY

By:

Theodore O. Pickerill Secretary to the Board of Trustees

Adopted: \_\_\_\_\_, 2020

I attest that this is a true and accurate copy of the original resolution R-2020-\_\_\_\_ passed by the Miami University Board of Trustees on \_\_\_\_\_, 2020 and remains in effect.

Theodore O. Pickerill Secretary to the Board of Trustees

\_\_\_\_\_, 2020

15883839.2



Approved by the Board of Trustees, February 21, 2020

T. O. Pickerill II Secretary to the Board of Trustees

# **SERIES RESOLUTION R-2020-37**

PROVIDING FOR OPTIONAL REDEMPTION OF THE UNIVERSITY'S GENERAL RECEIPTS REVENUE BONDS AND THE AUTHORIZATION, ISSUANCE AND SALE OF GENERAL RECEIPTS REVENUE AND REFUNDING BONDS, OF MIAMI UNIVERSITY, APPROVING A SUPPLEMENTAL TRUST AGREEMENT AND AUTHORIZING THE FISCAL OFFICER TO TAKE CERTAIN ACTIONS.

WHEREAS, Resolution 2004-8 adopted by this Board on September 26, 2003 (the "General Bond Resolution"), and the Amended and Restated Trust Agreement dated as of October 1, 2003, as amended (the "Trust Agreement"), by and between Miami University (the "University") and The Bank of New York Mellon Trust Company, N.A., as trustee (the "Trustee") provide for the issuance from time to time of General Receipts Revenue Bonds of the University (the "Bonds"), with each issuance to be authorized by a Series Resolution adopted by the Board; and

WHEREAS, the General Bond Resolution was adopted and the Trust Agreement was authorized by the Board pursuant to the Act which authorizes the University to issue its Bonds to pay costs of certain capital facilities, defined as "auxiliary facilities," "education facilities" and "housing and dining facilities" in Section 3345.12 of the Revised Code and called "University Facilities" in the General Bond Resolution and in this Resolution; and

WHEREAS, Section 3345.12 of the Revised Code also authorizes the University to issue its Bonds to refund its previously issued Bonds; and

WHEREAS, the University has determined that it may be advantageous to refund (together with other lawfully available funds of the University) all or a portion of the Bonds; and

WHEREAS, such refunding of Bonds is sometimes referred to herein as the "Refunding"; and

WHEREAS, in order to lower interest costs to the University and/or to manage and/or improve the University's cash flow and/or to react to market conditions and/or to deal with the change in status of certain outstanding Bonds with respect to their tax-exemption, the Board desires to provide for issuance and sale of the General Receipts Revenue and Refunding Bonds (the "Refunding Bonds"), the proceeds of which Refunding Bonds (exclusive of accrued interest received upon sale thereof) together with any moneys contributed by the University will be used to purchase (if necessary) United States Treasury Obligations or other obligations satisfactory to the Trustee, sufficient (without reinvestment) to refund those series and/or specific maturities or portions of maturities of the Bonds selected by the Fiscal Officer for redemption or payment, which obligations of the United States of America shall forthwith be deposited with the Trustee, in order

Finance and Audit February 20, 2021 to effect (but only if all outstanding Bonds of a particular series are refunded and/or defeased) satisfaction, cancellation and discharge of the Supplemental Trust Agreement which secures such series of Bonds which have been refunded in their entirety and for other matters in connection therewith, by the adoption of this Resolution, to pay costs of issuance and to fund a reserve (if necessary); and

WHEREAS, the Board desires to provide for issuance and sale of additional Bonds (which shall be Refunding Bonds) and for other matters in connection therewith, by the adoption of this Resolution;

WHEREAS, the Board anticipates that it will authorize the issuance of the University's Bonds (the "General Receipts Revenue Bonds") to fund all or a portion of certain University Facilities (as defined in the Trust Agreement); and

WHEREAS, the Board hereby determines that it is in the best interest of the University to provide for maximum flexibility in structuring the Refunding Bonds to achieve maximum cost savings, and therefore, has provided that certain terms of the Refunding Bonds, including combining all or a portion of the Refunding Bonds with all or a portion of the General Receipts Revenue Bonds, shall be determined in the Certificate of Award authorized pursuant to Section 5 hereof (the "Certificate of Award");

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF MIAMI UNIVERSITY, as follows:

Section 1. <u>Definitions and Interpretations</u>. Where used in this Resolution, in the Supplemental Trust Agreement and in the Certificate of Award, and in addition to words and terms defined elsewhere in this Resolution (including its preambles), the Supplemental Trust Agreement, the General Bond Resolution or the Trust Agreement, the following terms shall have the following meanings:

"Act" means Sections 3345.11 and 3345.12 of the Ohio Revised Code.

*"Annual Bond Service Charge"* for any Fiscal Year (as defined in the Trust Agreement) means, in connection with the Refunding Bonds, an amount equal to the scheduled principal and interest due on the Refunding Bonds in that Fiscal Year.

*"Bond Purchase Agreement"* means the Bond Purchase Agreement or similar agreement between the Original Purchaser and the University to be dated as of its date of execution.

*"Bond Counsel"* means Dinsmore & Shohl LLP or such other firm of nationally recognized experts on the issuance of state and local obligations designated as such by the Fiscal Officer.

*"Bond Year"* means the annual period relevant to the application of Section 148 of the Code to the Refunding Bonds.

"Certificate of Award" means the Certificate of Award authorized by Section 5 hereof.

*"Code"* means the Internal Revenue Code of 1986, as amended, the regulations (whether proposed, temporary or final) under that Code or the statutory predecessor of that Code, and any amendments of, or successor provisions to, the foregoing and any official rulings, announcements, notices, procedures and judicial determinations regarding any of the foregoing, all as and to the extent applicable. Unless otherwise indicated, reference to a section of the Code includes that section and such applicable regulations, rulings, announcements, notices, procedures and determinations pertinent to that section.

"Debt Service" means principal of and interest and any redemption premium on the Refunding Bonds.

"Delivery Date" means the date on which the Refunding Bonds are delivered to the Original Purchaser in exchange for payment.

*"Escrow Deposit Agreement"* means the Escrow Deposit Agreement between the University and the Escrow Trustee authorized pursuant to this Resolution, prepared in connection with the issuance of the Refunding Bonds.

"Escrow Trustee" means the Trustee acting as escrow trustee under the Escrow Deposit Agreement.

*"Fiscal Officer"* means the Senior Vice President for Finance and Business Services and Treasurer of Miami University or such other official of the University designated in writing as the Fiscal Officer.

"General Counsel" means the chief legal officer of the University.

"Interest Payment Dates" means the first day of March and September in each year, commencing such date as may be provided in the Certificate of Award.

*"Issuance Date"* means the date of physical delivery of the Refunding Bonds by the University or the date of the "fast closing" in exchange for the purchase price of the Refunding Bonds.

*"Letter of Instructions"* means a letter addressed to the Trustee dated the Issuance Date and signed by the Fiscal Officer.

*"Original Purchaser"* means the investment banking firm, bank or other entity selected by the Fiscal Officer to be the initial purchaser of the Refunding Bonds.

*"Refundable Bonds"* means those series or specific maturities of series of Bonds related to be refunded by the Fiscal Officer pursuant to Section 4(a) of this Resolution.

*"Refunding Bonds"* means the series of General Receipts Revenue and Refunding Bonds authorized by this Resolution and issued pursuant to the Trust Agreement, as supplemented, this Resolution and the Certificate of Award.

*"Refunding Bonds Costs of Issuance Fund"* means the fund established by the University used to pay certain costs related to the issuance of the Refunding Bonds.

*"Securities Depository"* means initially The Depository Trust Company (a limited purpose trust company), New York, New York and thereafter any such entity to which the Trustee has no reasonable objection designated to act as a securities depository by the University.

"Series 2020 Resolution" or "Resolution" means this Resolution authorizing the issuance and sale of the Refunding Bonds.

*"Special Record Date"* means the date established by the Trustee in connection with the payment of any overdue interest on any Bond pursuant to Section 4(e)(ii) of this Resolution.

*"Supplemental Trust Agreement"* means the Supplemental Trust Agreement between the University and the Trustee, authorized pursuant to Section 7.01 of the Trust Agreement and this Resolution.

*"Tax Certificates"* means, collectively, the Certificate Regarding Issuance, Use of Proceeds and Arbitrage Compliance of the University to Bond Counsel and the Trustee and the Certificate Under Sections 103(b)(2) and 148 of the Internal Revenue Code of 1986, as amended, of the University.

*"Trustee"* means The Bank of New York Mellon Trust Company, N.A., as successor to J.P. Morgan Trust Company, National Association as trustee under the Trust Agreement.

Unless the context shall otherwise indicate, words importing the singular number shall include the plural number, and vice versa, and the terms "hereof," "herein," "hereby," "hereto," "hereunder," and similar terms, mean this Resolution and the Supplemental Trust Agreement. References to sections, unless otherwise stated, are to sections of this Resolution.

Section 2. <u>Authority</u>. This Resolution is adopted pursuant to the General Bond Resolution, the Trust Agreement and the Act.

Section 3. <u>Authorization of Refunding and Designation and Purpose of Refunding</u> <u>Bonds</u>. It is hereby declared to be necessary to cause the refunding of the Refundable Bonds prior to maturity. To that end, the University may and the University is hereby authorized to cause such redemption either by the deposit of (a) its lawfully available funds, or (b) proceeds of the Refunding Bonds. The determination of which method to use and whether to proceed with the Refunding will be made by the Fiscal Officer based on market conditions and other factors he believes are relevant. In the event the Fiscal Officer determines to use Refunding Bond proceeds to accomplish the Refunding, the University shall, issue, sell and deliver, as provided and authorized by this Resolution, General Receipts Bonds of the University, which shall be designated either "Miami University General Receipts Revenue and Refunding Bonds, with the appropriate series designation" as appropriate, in the original aggregate principal amount to be as provided by the Certificate of Award, for the purpose of refunding the Refundable Bonds and paying a portion of the costs associated with the issuance. For that purpose, the proceeds from the sale of the Refunding Bonds shall be allocated and deposited as provided in Section 6 of this Resolution.

# Section 4. <u>Terms and Provisions Applicable to the Refunding Bonds</u>.

(a) <u>Criteria for Issuance</u>. The following criteria shall be used when determining to refund all or a portion of a series of the outstanding Bonds and an issue of Refunding Bonds may be issued if:

(i) (A) the net present value of refunded savings of such particular series of Refundable Bonds shall be at least three percent (3%), (B) the weighted average maturity of such particular series of the Refunding Bonds shall not be greater than 120% of the weighted average maturity of Refundable Bonds to be refunded, and (C) the maximum annual debt service based on all outstanding Bonds of the University issued under the Restated Trust Agreement does not increase as a result of the issuance of the Refunding Bonds; provided, however, it shall be at the discretion of the Fiscal Officer to make exceptions to (A), (B) and/or (C); or

(ii) when other clear advantages to the University would be realized as a result of the refunding, as determined by the Fiscal Officer.

(b) <u>Form and Numbering</u>. The Refunding Bonds shall be issued, unless otherwise subsequently provided in the Supplemental Trust Agreement entered into pursuant to the Trust Agreement, only in the form of fully registered Bonds, substantially in the form set forth in Exhibit A to the Supplemental Trust Agreement with such changes as may be necessary to reflect the terms of the Refunding Bonds set forth in the Certificate of Award. The Refunding Bonds shall be fully registered and numbered as determined by the Fiscal Officer in such manner as to distinguish each Refunding Bond from each other Refunding Bond.

The Refunding Bonds may be registered in the name of either the Original Purchaser or a Securities Depository to be held in a book entry system and the Refunding Bonds as such shall be transferable or exchangeable in accordance with Section 2.06 of the Trust Agreement, provided, however that so long as a book entry system is used for the Refunding Bonds, they may only be transferred to another Securities Depository or to another nominee of a Securities Depository without further action by the University pursuant to subparagraph (e)(iii) of this Section. Notwithstanding Section 2.06 of the Trust Agreement, the University may, and may require the Trustee to, transfer the Refunding Bonds from one Securities Depository to another Securities Depository at any time.

(c) <u>Terms</u>.

(i) <u>Denomination and Dates</u>. The Refunding Bonds shall be issued in such denominations as set forth in the Certificate of Award and shall be dated as of the Delivery Date or such other date as may be provided in the Certificate of Award. Each Refunding Bond shall have only one principal maturity date, except for interim certificates or receipts which may be issued pending preparation of definitive Refunding Bonds.

(ii) <u>Interest</u>. The Refunding Bonds shall bear interest from the later of (i) their date or (ii) the most recent date to which interest has been paid or provided for, payable on the Interest Payment Dates at the respective rates per annum set forth in the Certificate of Award.

(iii) <u>Maturities</u>. The Refunding Bonds shall mature on March 1 and/or September 1 in the years and in the principal amounts as provided in the Certificate of Award, with the initial maturity and final maturity as set forth in section (c) below.

(iv) <u>Prior Redemption</u>.

(A) The Refunding Bonds may be subject to redemption at the option of the University prior to their stated maturities on the redemption dates and at the redemption prices specified in the Certificate of Award. The Fiscal Officer may determine in the Certificate of Award that some or all of the Refunding Bonds are not to be callable prior to stated maturity. The Fiscal Officer further may determine in the Certificate of Award that a premium shall be payable to the bondholder upon early redemption of a Refunding Bond and that such premium may be calculated in a manner to make the bondholder whole for the loss of the investment or may be calculated as a percentage of the principal amount to be redeemed.

(B) The Refunding Bonds of one or more maturities may be subject to mandatory redemption pursuant to mandatory sinking fund requirements by the University at a redemption price equal to 100% of the principal amount redeemed, plus accrued interest to the date of redemption, on March 1 and/or September 1 in the years and in the principal amounts provided in the Certificate of Award.

(d) <u>Maturities: Bond Service Charges</u>. The first maturity or mandatory sinking fund payment and the final maturity of the Refunding Bonds shall not be later than the dates specified in the Certificate of Award. Principal shall be payable in each year from the first maturity or mandatory sinking fund payment year to the final maturity year either at stated maturity or pursuant to mandatory sinking fund requirements. The weighted net interest cost on the Refunding Bonds shall not exceed 5% per annum. Annual Bond Service Charges on all the Refunding Bonds shall be in accordance with the Certificate of Award.

(e) <u>Redemption Prior to Maturity</u>.

(i) If fewer than all of the outstanding Refunding Bonds are called for optional redemption at one time, the Refunding Bonds to be called shall be designated by the Fiscal Officer in his sole discretion and in any manner the Fiscal Officer determines, without regard to the order of their maturities or their interest rates. If fewer than all of the outstanding Refunding Bonds of one maturity and interest rate are to be called for redemption, the selection of the Refunding Bonds, or portions of those Refunding Bonds (in integral multiples of \$5,000), of that maturity to be called for redemption shall be made in the manner provided in the Supplemental Trust Agreement. If optional redemption of any Refunding Bonds at a redemption price above 100% of the principal amount to be redeemed is to take place on any applicable mandatory sinking fund redemption date, the selection of the Refunding Bonds to be optionally redeemed shall be selected prior to the selection of the Refunding Bonds to be redeemed by mandatory sinking fund redemption.

(ii) Notice of call for redemption of Refunding Bonds, setting forth the information provided for in Section 3.03 of the Trust Agreement, shall be given by the Trustee on behalf of the University. Failure to receive notice by mailing, or any defect in that notice, as to any Refunding Bond shall not affect the validity of the proceedings for the redemption of any other Refunding Bond.

# (f) <u>Places and Manner of Payment and Paying Agents</u>.

(i) The principal of and any redemption premium on Refunding Bonds shall be payable when due only to the registered owners, upon presentation and surrender of the Refunding Bonds at the principal corporate trust office of the Trustee, unless provided otherwise in the Supplemental Trust Agreement.

Interest on any Refunding Bond due on each Interest Payment Date shall be (ii) payable by check or draft which the Trustee shall cause to be mailed on the Interest Payment Date to the person who is the registered owner of the Bond (or one or more predecessor Bonds) at the close of business on the Regular Record Date applicable to that Interest Payment Date, at the address then appearing on the Register. If and to any extent, however, that the University shall make neither payment nor provision for payment of interest on any Refunding Bond on any Interest Payment Date, that interest shall cease to be payable to the person who was the registered owner of that Bond (or of one or more predecessor Bonds) as of the applicable Regular Record Date; when moneys become available for payment of that interest the Trustee shall, subject to Section 2.05 of the Trust Agreement, establish a Special Record Date for the payment of that interest which shall be not more than 15 or fewer than 10 days prior to the date of the proposed payment, and the Trustee shall cause notice of the proposed payment and of the Special Record Date to be mailed to the person who is the registered owner of that Bond on a date not fewer than 10 days prior to the Special Record Date, at the address as then appears on the Register, and thereafter that interest shall be payable to the person who is the registered owner of that Bond (or a predecessor Bond) at the close of business on the Special Record Date.

Notwithstanding any other provision of this Resolution or any provision of (iii) the General Bond Resolution, the Trust Agreement, the Supplemental Trust Agreement or any Refunding Bond to the contrary, with the written approval of the University, the Trustee may enter into an agreement with a Securities Depository, or the nominee of a Securities Depository that is the registered owner of a Refunding Bond in the custody of that Securities Depository providing for making all payments to that registered owner of principal of and interest and any premium on that Refunding Bond or any portion of that Refunding Bond (other than any payment of its entire unpaid principal amount) at a place and in a manner (including wire transfer of federal funds) other than as provided above in this Resolution, without prior presentation or surrender of the Refunding Bond, upon any conditions which shall be satisfactory to the Trustee and the University. That payment in any event shall be made to the person who is the registered owner of that Refunding Bond on the date that principal and premium is due, or, with respect to the payment of interest, as of the applicable Regular Record Date or Special Record Date or other date agreed upon, as the case may be. The Trustee will furnish a copy of each of those agreements, certified to be correct by an officer of the Trustee, to other authenticating agents and paying agents

for Refunding Bonds, if any, and to the University. Any payment of principal, premium, or interest pursuant to such an agreement shall constitute payment thereof pursuant to, and for all purposes of, this Resolution and the Supplemental Trust Agreement.

(iv) Alternate Paying Agents may be designated in the Certificate of Award by the Fiscal Officer.

(f) <u>Execution and Authentication</u>. The Refunding Bonds shall be executed and authenticated in the manner provided in the Trust Agreement. Alternate Authenticating Agents may be designated by the Fiscal Officer in the Certificate of Award.

(g) <u>Multiple Series; Combine with other General Receipts Revenue Bonds</u>. The Refunding Bonds may be issued in one or more series as approved by the Fiscal Officer and all or a portion of the Refunding Bonds may be combined with and issued as part of the same series of Bonds authorized by a separate Series Resolution including, but not limited to the General Receipts Revenue Bonds.

### Section 5. <u>Refunding; Sale of Refunding Bonds</u>.

(a) <u>General</u>. The Fiscal Officer is authorized to determine:

(i) whether to proceed with the Refunding, and, if so, by a deposit of the University's lawfully available funds, the deposit of the proceeds of the Refunding Bonds, or a combination of the two;

- (ii) the principal amount of Refunding Bonds to be issued;
- (iii) the interest rates on the Refunding Bonds;

(iv) the amount of any original issue discount and/or premium on the Refunding Bonds;

(v) the maturities of the Refunding Bonds, including mandatory sinking fund payment amounts, as limited by Section 4(c) herein;

 $(\mathrm{vi})$  the optional and mandatory redemption dates, if any, and redemption prices for the Refunding Bonds; and

(vii) the purchase price for the Refunding Bonds.

The Refunding Bonds shall be sold by the Fiscal Officer to the Original Purchaser on such terms not inconsistent with this Resolution as are provided in the Certificate of Award and the Bond Purchase Agreement.

The Fiscal Officer is authorized and directed to execute the Certificate of Award and the Bond Purchase Agreement, in order to provide for the definitive terms and terms of sale of the Refunding Bonds as provided in this Resolution, and to award and provide for sale of the Refunding Bonds to the Original Purchaser. The Bond Purchase Agreement shall not be materially adverse to the University as shall be approved by the Fiscal Officer, his execution of the Bond Purchase Agreement to constitute conclusive approval of any such changes on behalf of the University. The Certificate of Award shall be incorporated in and form a part of the Supplemental Trust Agreement.

(b) <u>Official Statement</u>. The Fiscal Officer is authorized and directed, on behalf of the University, and in his official capacity, to prepare or cause to be prepared, if the Fiscal Officer determines that it is necessary, a preliminary official statement relating to the original issuance of the Refunding Bonds; to determine, and to certify or otherwise represent, when such preliminary official statement is "deemed final" for purposes of Securities and Exchange Commission Rule 15c2-12(b)(1); and to use and distribute, or authorize the use and distribution of such preliminary official statement in connection with the original issuance of the Refunding Bonds until an official statement is prepared. All actions previously taken by the Fiscal Officer in this regard relating to a preliminary official statement are hereby approved, ratified and confirmed.

The Fiscal Officer is further authorized and directed, on behalf of the University, and in his official capacity, to prepare or cause to be prepared, if the Fiscal Officer determines that it is necessary, an official statement, and any necessary supplements thereto, relating to the original issuance of the Refunding Bonds; to determine, and to certify or otherwise represent, when such official statement is a final official statement for purposes of Securities and Exchange Commission Rule 15c2-12(b)(3) and (4); to use and distribute, or authorize the use and distribution of such official statement, and any supplements thereto, in connection with the sale of the Refunding Bonds; and to sign and deliver the official statement.

The Fiscal Officer is further authorized and directed, on behalf of the University, and in his official capacity, to sign and deliver such certificates in connection with the accuracy of the preliminary official and the final official statements and any supplements thereto as may, in his judgment, be necessary or appropriate.

(c) <u>Further Authorization</u>. The Fiscal Officer is further authorized and directed, on behalf of the University, and in his official capacity, to sign and deliver on the Issuance Date, such other certificates and documents as may be reasonably necessary in the opinion of Bond Counsel to complete the sale of the Refunding Bonds. The General Counsel in her official capacity is hereby authorized and directed to sign and deliver on the Issuance Date a legal opinion in form and substance acceptable to Bond Counsel.

### Section 6. <u>Allocation of Proceeds of Refunding Bonds</u>.

(a) <u>Allocation</u>. All University funds to be used for the Refunding and the proceeds from the sale of the Refunding Bonds shall be received and receipted for by the Fiscal Officer or by his authorized representative for that purpose, and shall be allocated, deposited and credited as follows:

(i) To the Bond Service Account in the Bond Service Fund, any portion of the proceeds representing accrued interest, if any;

(ii) To the Refunding Bonds Costs of Issuance Fund an amount, to be determined by the Fiscal Officer, to pay the costs of issuance of the Refundable Bonds; and

(iii) To the appropriate account created in the Escrow Deposit Agreement (the "Refunding Account") to be applied to the refunding of the Refunding Bonds.

# (b) <u>Refunding Bonds Costs of Issuance Fund</u>.

(i) The Refunding Bonds Costs of Issuance Fund shall be held by the University in a separate deposit account or accounts set up in a bank or banks that are members of the Federal Deposit Insurance Corporation, and used to pay costs of issuance of the Refunding Bonds that constitute "costs of facilities" as defined in the Act (the "Costs of Issuance").

(ii) The Fiscal Officer shall apply the Refunding Bonds Costs of Issuance Fund pursuant to the provisions of this Section 6 to the payment of the Costs of Issuance, including, without limitation, the reimbursement of the University for moneys heretofore advanced to pay Costs of Issuance in anticipation of the issuance of the Refunding Bonds.

(iii) Moneys to the credit of the Refunding Bonds Costs of Issuance Fund, pending their application as above set forth, shall be subject to a lien and charge in favor of the holders of the Refunding Bonds, and the University covenants that it will not cause or permit to be paid from the Refunding Bonds Costs of Issuance Fund any moneys except in compliance with the provisions of this Resolution, the Trust Agreement and the Supplemental Trust Agreement.

(iv) Moneys on deposit in the Refunding Bonds Costs of Issuance Fund may be invested by or at the direction of the Fiscal Officer in Eligible Investments (as defined in the Supplemental Trust Agreement) maturing or redeemable at the option of the holder prior to the time needed for the purposes thereof. The investments and the proceeds of their sale shall constitute part of the Refunding Bonds Costs of Issuance Fund, and earnings from any of those investments shall be credited to the Refunding Bonds Costs of Issuance Fund. The investments may be sold, exchanged or collected from time to time by or at the direction of the Fiscal Officer.

(v) Any balance remaining in the Refunding Bonds Costs of Issuance Fund after the payment of all Costs of Issuance has been accomplished or provided for to the satisfaction of the University shall be deposited in the Bond Service Account and used for payment of interest on the Refunding Bonds.

# (c) <u>Refunding Account</u>.

(i) The Refunding Account shall be held by the Escrow Trustee and invested and used as set forth in the Escrow Deposit Agreement.

# Section 7. <u>Tax Covenants; Rebate Fund</u>.

(a) This Board hereby covenants for and on behalf of the University, that it will restrict the use of the proceeds of the Series 2020 Bonds in such manner and to such extent, if any, and take such other actions as may be necessary, in view of reasonable expectations at the time of issuance of the Series 2020 Bonds, so that the Series 2020 Bonds will not constitute obligations the interest on which is subject to federal income taxation or "arbitrage bonds" under Sections 103(b)(2) and 148 of the Internal Revenue Code of 1986, as amended (the "Code"), and regulations prescribed under such Sections, provided that, at the discretion of the Fiscal Officer, the University may issue Series 2020 Bonds which are subject to federal income taxation. However, if the Series 2020 Bonds are designated as some type of tax-advantaged bond on which the interest is not excludable from gross income for federal income tax purposes ("Tax-Advantaged Bonds"), the Board will take, or cause to be taken, all activities required to maintain the status of said Series 2020 Bonds as Tax-Advantaged Bonds, and will not take, or permit to be taken, any actions which would jeopardize the status of the Series 2020 Bonds as Tax-Advantaged Bonds. The Fiscal Officer or any other officer of the University having responsibility with respect to issuance of the Series 2020 Bonds is hereby authorized and directed to give an appropriate certificate for inclusion in the transcript of proceedings with respect to the Series 2020 Bonds, setting forth the facts, estimates and reasonable expectations pertinent under said Sections 103(b)(2) and 148 of the Code and regulations prescribed under such Sections.

This Board hereby finds and determines that all proceeds from the sale of the Series 2020 Bonds will be needed for the purposes set forth in Section 6 hereof. It will restrict the use of the proceeds of the Refunding Bonds in such manner and to such extent, if any, as may be necessary so that the Refunding Bonds will not constitute arbitrage bonds under Section 148 of the Code. The Fiscal Officer, or any other officer of the University having responsibility for the issuance of the Refunding Bonds, alone or in conjunction with any other officer or employee of or any consultant to the University, shall give an appropriate certificate of the University, for inclusion in the transcript of proceedings for the Refunding Bonds, setting forth the reasonable expectations of the University regarding the amount and use of all the proceeds of the Refunding Bonds, the facts, circumstances and estimates on which they are based, and other facts and circumstances relevant to the tax treatment of the interest on the Refunding Bonds.

(ii) It (a) will take or cause to be taken such actions that may be required of it for the Refunding Bonds to be and remain Tax-Exempt Bonds at the time of their delivery to the Original Purchaser, and (b) will not take or authorize to be taken any actions that would adversely affect that status under the Code, and that it, or persons acting for it, will, among other acts of compliance, (1) apply the proceeds of the Refunding Bonds to the governmental purpose of the borrowing, (2) restrict the yield on investment property acquired with those proceeds, (3) make timely rebate payments to the federal government, (4) maintain books and records and make calculations and reports, and (5) refrain from certain uses of those proceeds, all in such manner and to the extent necessary to assure such exclusion of that interest under the Code. The Fiscal Officer and other appropriate officers are authorized and directed to take any and all actions, make calculations and rebate payments to the federal government, and make or give reports and certifications, as may be appropriate to assure such exclusion of that interest.

(b) <u>Rebate Fund</u>. There is hereby created the Refunding Bonds Rebate Fund (the Rebate Fund), to be in the custody of the Trustee, which shall be continuously invested in Eligible

Investments by the Trustee at the oral direction (confirmed in writing) of the Fiscal Officer. The Rebate Fund shall be held, administered and disposed of in accordance with the provisions of the Supplemental Trust Agreement. Amounts credited to the Rebate Fund are not General Receipts and shall be free and clear of any lien under the Supplemental Trust Agreement or under the Trust Agreement.

Section 8. <u>Credit Enhancement; Escrow Deposit Agreement; Other Agreements</u>. If he determines it to be in the best interest of the University in order to achieve maximum cost savings on the Refunding Bonds, the Fiscal Officer may obtain credit enhancement for all or any portion of the Refunding Bonds.

The Fiscal Officer is authorized to enter into such agreements and to make such changes to the Supplemental Trust Agreement and the Refunding Bond form as may be required in connection with such credit enhancement. The Fiscal Officer is further authorized to enter into such agreements and execute such certificates as may be required in connection with the issuance, sale and delivery of the Refunding Bonds.

The Fiscal Officer is authorized and directed to execute and deliver to the Escrow Trustee, in the name of and on behalf of the University, an Escrow Deposit Agreement in connection with the refunding of the Refunding Bonds.

Section 9. <u>Supplemental Trust Agreement</u>. The Chairman of the Board or the President of the University, and the Fiscal Officer, or any one or more of them, are authorized and directed to execute and deliver to the Trustee, in the name of and on behalf of the University, and the Secretary to the Board is authorized and directed to attest, a Supplemental Trust Agreement pursuant to the Trust Agreement and in connection with the issuance of the Refunding Bonds.

Section 10. <u>Open Meeting</u>. It is found and determined that all formal actions of this Board concerning and relating to the adoption of this Resolution were taken in an open meeting of this Board, and that all deliberations of this Board and of any of its committees that resulted in those formal actions were taken in meetings open to the public, in full compliance with applicable legal requirements including Section 121.22 of the Revised Code.

# BOARD OF TRUSTEES OF MIAMI UNIVERSITY

By:

Theodore O. Pickerill Secretary to the Board of Trustees

Adopted: \_\_\_\_\_, 2020

I attest that this is a true and accurate copy of the original resolution R-2020-\_\_\_\_ passed by the Miami University Board of Trustees on \_\_\_\_\_, 2020 and remains in effect.

Theodore O. Pickerill Secretary to the Board of Trustees

\_\_\_\_\_, 2020

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BOARD OF TRUSTEES ROUDEBUSH HALL ROOM 212 OXFORD, OHIO 45056 (513) 529-6225 MAIN (513) 529-3911 FAX WWW.MIAMIOH.EDU

Finance and Audit February 21, 2020

# Resolution R2020-38 Authorization to Seek Ohio Department of Higher Education Approval for Bond Issue

WHEREAS, the Board of Trustees has approved the issuance of bonds for future construction projects with an estimated cost not to exceed \$125 million; and

WHEREAS, the approval of the Ohio Department of Higher Education is required prior to the issuance of new debt;

NOW, THEREFORE, BE IT RESOLVED: that the Board of Trustees hereby authorizes the Senior Vice President for Finance and Business Services and Treasurer to request approval of the Ohio Department of Higher Education to issue bonds in an amount not to exceed \$125 million; and

BE IT FURTHER RESOLVED: that, upon approval of the Ohio Department of Higher Education, the Senior Vice President for Finance and Business Services and Treasurer is hereby authorized to take all actions necessary to execute the issuance of bonds in an amount not to exceed \$125 million.

*Approved by the Board of Trustees February 21, 2020* 

Al Getter

T. O. Pickerill II Secretary to the Board of Trustees



Approved by the Board of Trustees, February 21, 2020

February 20,2020 F TRUSTEES ROUDEBUSH HALL ROOM 212 OXFORD, OHIO 45056 (513) 529-6225 MaiN (513) 529-3911 FAX WWW.MIAMIOH.EDU

Finance and Audit February 20, 2021

T. O. Pickerill II Secretary to the Board of Trustees

### ORDINANCE O2020-02 Room and Board

#### I. 2020-2021 Cohort Tuition Promise Students and Non-Tuition Promise Students

BE IT ORDAINED: that the Board of Trustees hereby establishes the following charges to be levied and collected for students admitted under the 2020-2021 Miami Tuition Promise cohort beginning first semester of the academic year 2020-2021 and to remain in effect for four (4) years as part of the Miami Tuition Promise unless otherwise indicated;

BE IT FURTHER ORDAINED: that the Board of Trustees further establishes the following charges to be levied and collected for students who are not guaranteed rates under Miami Tuition Promise beginning with the first semester of the academic year 2020-2021 unless otherwise indicated;

		2019-20	<u>2020-21</u>	<u>% change</u>
A.	Residence Halls (Fall/Spring, per semest	er per student)		
	Non-Renovated Single	\$4,383	\$4,471	2%
	Non-Renovated Double	\$3,521	\$3,591	2%
	Non-Renovated Triple or Quad	\$3,461	\$3,530	2%
	Single	\$5,093	\$5,195	2%
	Double	\$4,249	\$4,334	2%
	Modified Double	\$3,807	\$3,883	2%
	Triple or Quad	\$3,570	\$3,641	2%
	Heritage Commons	\$5,272	\$5,377	2%
B.	Meal Plans (Fall/Spring, per semester pe	er student)		
	Diplomat Minimum	\$2,117	\$2,159	2%
	Diplomat Standard	\$2,674	\$2,727	2%
	Diplomat Plus	\$2,785	\$2,841	2%
	Diplomat Premium	\$3,259	\$3,324	2%
	Diplomat Premium C *	\$2,080	\$2,080	0%
	*Disability Accommodations Only			
C.	Residential Fee (Fall/Spring, per semest	er per student)		
	Fall and Spring Residents	\$445	\$454	2%
D.	Residence & Meal Plan Fall/Spring In	crease (Common	Experience per Se	mester)
	Non-Renovated Double + Board + Fee	\$6,640	\$6,772	2%
	Double + Board + Fee	\$7,368	\$7,515	2%

#### **Previously Approved Tuition Promise Cohorts** II.

Previously approved Room and Board rates for continuing Tuition Promise Cohorts will not be changed and will remain in effect for the originally approved four (4) years.

#### III. All Students, Sororities, and Refund Policies

	<u>2019-20</u>	<u>2020-21</u>	<u>% change</u>
A. Summer Housing Weekly			
Double Occupancy	\$135	\$138	2%
Single Occupancy	\$197	\$201	2%
<b>B.</b> Winter Term Housing Block Rate (24	days)		
(Available for students enrolled in class	• /	\$466	0%
C. Sorority Suites (Per suite per semester)			
Less than 500 square feet	\$1,500	\$1,500	0%
500 to 899 square feet	\$5,926	\$6,045	2%
900 to 999 square feet	\$10,000	\$10,200	2%
1,000 to 1,099 square feet			
1,000 to 1,077 square reet	\$11,033	\$11,254	2%
1,100 to 1,199 square feet	\$11,033 \$12,064	\$11,254 \$12,305	2% 2%
1,100 to 1,199 square feet 1,200 to 1,299 square feet	-	-	
1,100 to 1,199 square feet	\$12,064	\$12,305	2%

Suites sized 500 square feet and larger include use of Hamilton Hall Multi-Purpose Meeting Room. -

Through negotiation with the Division of Student Life, sorority suite rental rates are adjusted to provide better affordability for very small chapters in suites less than 500 square feet in size.

#### **D. Residence Halls Room Refund Policy**

The refund policy for room rent and residential fee for first and second semester will be as follows:

<ol> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> </ol>	100 % of room rent 90 % of room rent 50 % of room rent 35 % of room rent 25 % of room rent No Refund	
The refun	d policy for room rent for the summer terms will be as follows:	
(7)	Withdrawal during the first three class days of the term	100% of room rent
(8)	Withdrawal during the fourth through eighth class days of the term	50% of room rent
(9)	Withdrawal during the ninth through fifteenth class days of the term	25% of room rent

- Withdrawal during the ninth through fifteenth class days of the term (9)
- (10)Withdrawal after the fifteenth class day of the term

No Refund

Provided further that no room rental charges will be returned upon withdrawal until thirty days have elapsed from the date of withdrawal. In the event of an emergency, the Vice President for Finance and Business Services or his designee is authorized to make exceptions to the above stated refund policy.

An advance Oxford Campus university contract confirmation deposit of \$330.00 and an admission fee of \$95.00 are charged to all incoming residential students. Generally speaking, the \$330 university contract confirmation deposit will be returned to the student after their final semester at Miami University. If the student pays the university contract confirmation deposit and fails to matriculate, or matriculates and withdraws mid-semester the deposit is forfeited.

#### E. Meal Plan Change and Refund Policy

Meal Plan holders are permitted to change their selected level until the first day of class during each semester. Meal plan holders may continue to add additional declining balance dollars at any time, but are not permitted to lower their plan level after the first day of class.

Unused declining balance dollars at the end of each semester roll forward to the next semester. Unused buffet meals do not carry forward. When a student moves off campus, any remaining declining balance dollars are converted to the meal plan for off campus students.

Students who withdraw from the university within the first five days of a class term receive a full credit of their current term declining balance deposit (less any used amounts), and a full credit of their buffet meals based on the percentage schedule defined in Section D (1-6) of this document.

Students who withdraw from the university after the fifth day of the term, and up to the fortieth day of the term will receive a refund of 80% of any unused declining balance dollars, and a calculated credit for unused buffet meals (if applicable), based on the same percentage schedule defined in Section D (1-6) of this document. There is no refund or credit for students who graduate or withdraw after the fortieth day of the term.

In the event of an emergency, the Vice President for Finance and Business Services or his designee is authorized to make exceptions to the above stated refund policy.



February 20, 2020

BOARD OF TRUSTEES ROUDEBUSH HALL ROOM 212 Oxford, Ohio 45056 (513) 529-6225 MAIN (513) 529-3911 FAX WWW.MIAMIOH.EDU

Finance And Audit February 21, 2020

# Resolution R2020-39 Quasi-Endowment

WHEREAS, Miami University has renegotiated a lease with a wireless telecommunication infrastructure company for the use of Miami University property; and

WHEREAS, the new lease replaces monthly payments with a one-time lump sum payment of \$383,000; and

WHEREAS, the leased property consists of a portion of the land occupied and used by the Miami University Ecology Research Center (ERC); and

WHEREAS, the ERC has relied on the monthly lease payments since the original lease in 1999 to support upgrades and enhancements to the facility and to supplement its operating budget; and

WHEREAS, Resolution R2019-28 established the Miami University Quasi-Endowment Policy and the University has since cumulatively established \$48 million in new quasiendowments; and

WHEREAS, the College of Arts and Science requests that this new lump sum lease payment be used to establish a quasi-endowment to support the ERC; and

WHEREAS, the Provost and the Senior Vice President for Finance and Business Services recommend approval of this plan;

NOW, THEREFORE BE IT RESOLVED that the Board of Trustees approves the creation of the Ecology Research Center Fund with \$383,000.00 from the lump sum lease payment with American Towers LLC; and

BE IT FURTHER ESOLVED that the annual distributions of the Ecology Research Center Fund be used for support of the ERC as determined by the Director of the ERC.

Approved by the Board of Trustees Hgdt wct { '43. '4242

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T. O. Pickerill II Secretary to the Board of Trustees

Attachment E

ERC Quasi-Endowment



107 Roudebush Hall 501 E High Street Oxford, OH 45056 (513) 529-6110 office (513) 529-6124 fax MiamiOH.edu

To: Jason Osborne and David Creamer From: Bruce Guiot Baba Subject: Ecology Research Center Quasi-endowment Date: January 7, 2020

MIAMI UNIVERSITY

XFORD, OH • EST. 1809

Since 1999, Miami University has leased a portion of its property used by the Ecology Research Center (ERC) to a wireless telecommunications infrastructure company, American Towers LLC. The ERC relies on this monthly lease revenue to support upgrades and enhancements to the facility and equipment at the site and to supplement the operating budget as needed. Recently, Miami renegotiated and extended this lease and secured a one-time lump sum payment of \$383,000.00 in lieu of monthly lease payments.

Since the ERC was dependent on the monthly lease payment, it would like to create a quasi-endowment with the lump sum. This fund will create a perpetual funding source to continue to support upgrades and enhancements to the facilities and equipment at the ERC, as well as provide supplemental resources for its operating budget as needed.

In order to provide a perpetual funding source to support the ERC, the recommendation to the Board of Trustees is to create a new quasi-endowment in the amount of \$383,000. The fund will be called the Ecology Research Center Fund and will make an annual distribution to an expendable account as determined by the Miami University Endowment Spending Policy. The expendable will be used to provide support to the ERC at the discretion of the Director of the Ecology Research Center.

Approved: ason Osborne

Date: 1-23 - 20

Approved

Date: 1-7-20



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Finance and Audit February 21, 2020

#### **Resolution R2020-40**

WHEREAS, Ohio Revised Code 3345.14 awards all rights to the University in discoveries, inventions or patents which result from research or investigation conducted on University property by any University employee acting within the scope of their employment or with funding, equipment or infrastructure provided by the University; and

WHEREAS, the Board last reviewed and amended the University's Patent Policy in in September 1983 and such policy no longer meets modern standards for the division of net patent royalties; and

WHEREAS, the University has filed a Provisional Patent based on the research of Professor Andrew Jones in Methods of Production of Psilocybin; and

WHEREAS, the University has received expressions of interest from companies interested in commercializing this research and sponsoring additional research;

NOW THEREFORE BE IT RESOLVED, the Board of Trustees:

- 1. Authorizes the filing of a patent application for the invention by Miami University.
- 2. Authorizes the Senior Vice President for Finance and Business Services to enter into such licensing and other agreements for the commercial development of the invention. Such agreements upon execution will be reported to the Board at its next regularly scheduled meeting.
- 3. Authorizes the Senior Vice President for Finance and Business Services to grant a first option for an exclusive royalty bearing license on such terms and conditions to be mutually agreed upon for any additional discoveries, inventions or patents that may be developed as a result of subsequent research by Professor Jones relating to the commercialization of methods of production for Psilocybin.
- 4. Authorizes the Senior Vice President for Finance and Business Services to enter into agreements with Professor Jones and any other named inventors for the division of net royalties, stock, research fees and other proceeds of commercialization and/or sponsored research, relating to the commercialization of methods of production for Psilocybin, upon such terms and conditions as may be mutually agreed upon.

Approved by the Board of Trustees Hgdtwct { "43."4242

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T. O. Pickerill II Secretary to the Board of Trustees



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Finance and Audit February 21, 2020

#### **Resolution R2020-41**

WHEREAS, Miami and its Department of Emerging Technology in Business and Design ranked #3 among public college and universities in the Princeton Review's 2019 list of Top Schools for Game Design; and

WHEREAS, esports (short for Electronic Sports) will soon be a \$1billion dollar business with a global audience of over 300 million fans according to the World Economic Forum; and

WHEREAS, collegiate esport competitions are exploding in popularity across the U.S.; and

WHEREAS, Miami University has a nationally recognized esports team that won the 2017 National Association of Collegiate Esports Championship; and

WHEREAS, the University along other universities that are presently members of the Mid-American Conference believe that forming an esport conference will further the educational purposes as well as the competitive interests and opportunities for its member universities;

NOW THEREFORE BE IT RESOLVED, the Board of Trustees authorizes:

- 1. The University to join E-Sports Collegiate, Inc. a non-profit corporation organized under Ohio Revised Code Chapter 1702, as an initial member.
- 2. The President to serve on the Board of Directors or to appoint any other University employee to serve on the Board of Directors as an Initial Appointed Director.
- 3. The President to take any and all other actions as may be in the best interests of the University with respect to its membership in E-Sports Collegiate, Inc.

Approved by the Board of Trustees Hgdtwct [ '43.'4242

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T. O. Pickerill II Secretary to the Board of Trustees

February 20, 2020

MIAMI UNIVERSITY $<math>\overline{\text{Oxford, oh} \cdot \text{est. 1809}}$ 

BOARD OF TRUSTEES ROUDEBUSH HALL ROOM 212 OXFORD, OHIO 45056 (513) 529-6225 MAIN (513) 529-3911 FAX WWW.MIAMIOH.EDU

## BOARD OF TRUSTEES MIAMI UNIVERSITY Minutes of the Investment Subcommittee Meeting February 19, 2020 Roudebush Hall, Room 104

The meeting of the Investment Subcommittee was called to order by Investment Subcommittee Chair Mark Ridenour at 3:30 p.m., with members Trustee David Budig, and National Trustee Mark Sullivan in attendance.

In addition to the Trustees, Senior Vice President David Creamer; Associate Treasurer and Miami Foundation CFO Bruce Guiot; Tim Viezer, Director of Investments; and Ted Pickerill, Executive Assistant to the President, and Secretary to the Board of Trustees were also present. Miami's OCIO, Strategic Investment Group (SIG) was represented by Nikki Kraus, Markus Krygier, along with Richard Behler, who joined by telephone.

The representatives from SIG provided a review of asset allocation and performance. They cited several key drivers impacting performance, they include: U.S. stocks being more overvalued relative to non-U.S. stocks; the valuation dislocation of value stocks relative to growth stocks, has become more pronounced; Bond yields in the U.S. have dropped to near historic low levels; and, anticipating an end to the credit cycle, active credit managers began scaling back their credit exposure. In all, they reported a calendar year performance of 16% for Long-Term Capital Tier III investments.

They also reviewed the portfolio "stress tests" which consider several major market dislocations of the recent past, including the Great Financial Crisis, and the Tech Bubble Burst, among others.

Foundation CFO Bruce Guiot updated the Subcommittee on the Foundation's consideration of ESG (Environmental, Social, and Corporate Governance), with regard to investing. He stated he anticipates the Foundation Investment Committee will propose recommended investment policy changes at the next meeting.

Mr. Guiot next updated the Subcommittee on a proposed quasi-endowment. He explained the quasi-endowment is to support the Ecology Research Center (ERC). A cellular phone tower is located at the Center, and it is proposed that the proceeds from a recently agreed upon lump sum, long-term lease with the cellular company, be invested for the ERC's use, through the proposed quasi-endowment. The consensuses of the Subcommittee was that the Board of Trustees should approve the resolution.

# The proposed Quasi Endowment is included as an Attachment.

Senior Vice President Creamer then updated the Subcommittee on the changes to employee retirement plans. They stated the transition was made on January 1, 2020, and it was

reasonably well-received. To answer employee questions, and to continue to inform them of the changes, communication outreach is still in progress.

With no more business to come before the subcommittee, the meeting adjourned at 5:15 p.m.

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Theodore O. Pickerill II Secretary to the Board of Trustees

#### Miami University Finance and Audit Committee FY 2020 Forecasted Operating Results Projections Based upon Activity through December 31, 2020

#### OXFORD

The projection for the Oxford General Fund, based on performance prior to adjustments through December. is a surplus of approximately \$9.8 million. Details of the specific items are highlighted below.

#### Revenues

The Oxford campus student fee revenues (instructional, general out-of-state, and other) are forecast to be approximately \$9.5 below the \$348.6 million budget. Gross instructional revenue (including the out of state surcharge) is forecast to be \$8.2 million under budget. The remaining revenue variance is attributable to a decrease in retention of the Fall 2018 cohort and increases in 3rd, 4th, and 5th year graduation rates for the Fall 2014, 2015 and 2016 cohorts. Preliminary results from winter term indicate revenues are below budget after a year over year revenue decline. Summer term revenues are reported on budget pending the availability of additional registration data.

The state appropriation for the Oxford campus is estimated to be \$1.8 million over the \$64.3 million budget based on the Ohio Department of Higher Education final subsidy payment schedule. The final subsidy reflects the net impact of activity across all of the institutions in the University System of Ohio.

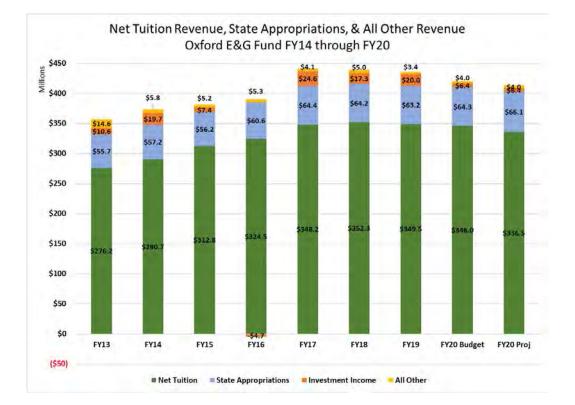
Investment income from interest, dividends, and realized capital gains/losses was \$8.5 million through December 31, 2020. This amount does not include the mark-to-market from long-term investments, which is virtually impossible to predict at this time.

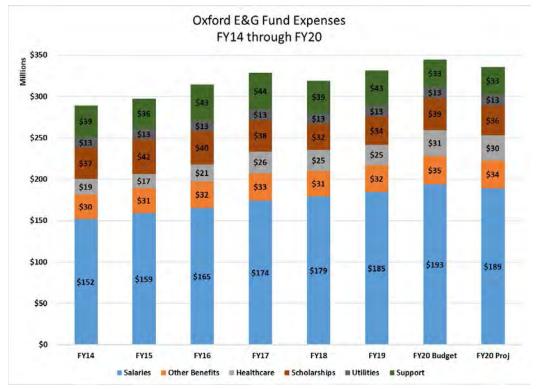
Other revenue categories are projected as budgeted.

#### **Expenditures and Transfers**

Employee salaries and staff benefits are projected to be \$4.3 million below budget. Through the first six months of the fiscal year, health care claims were lower than budgeted due to position vacancy and lower medical claims costs. Medical claims slowed in the second quarter of the fiscal year while prescription drug costs have continued to increase. As a result, average monthly claims costs are less through December compared to last year. Healthcare expense is difficult to estimate due to the volatility of high cost claims. Graduate fee waiver expenses are below budget due to the growing number of students in market priced programs rather than traditional graduate programs. Departmental support costs are forecast on budget through December. The Auxiliary Unit report shows a current deficit in the Utility Enterprise which is a result of shortening the monthly accounting close causing customer billing to trail by a month.

The underspending in salaries and benefits noted above is carryforward eligible. The net effect of this activity is recorded as an increase in Departmental Budgetary Carryforward. The third and final annual transfer (\$8.3 million) was made from academic divisions' carryforward reserves to the Boldly Creative Initiatives Fund. Distributions from the fund have been made for the Nursing program on Oxford campus (\$1.4 million), Physician's Assistant program (\$0.3 million), Data Analytics & CADS (\$0.4 million), Cybersecurity (\$45,000), Microcredentials (\$60,000), and eSports (\$0.1 million). Twelve pre proposals for the fall 2019 round of awards have been submitted and are currently under review. The Boldly Creative Initiatives Fund has a balance of \$47.2 million that is available to the President and Provost for new programming.





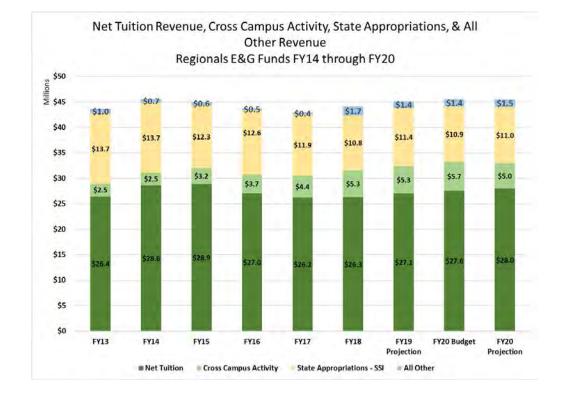
#### Attachment I

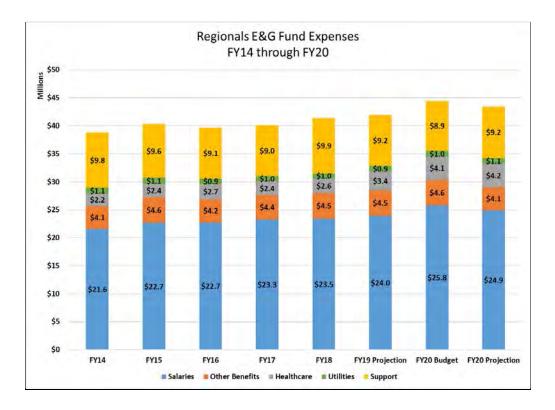
#### HAMILTON & MIDDLETOWN

The Hamilton campus student fee revenue (instructional, general and out-of-state) is estimated to be \$0.1 million below budget. The instructional fee, out-of-state surcharge and general fee for the Middletown campus are forecast to be \$0.2 million above budget. The tuition performance reflects a change in the distribution in the cross campus subsidy. State subsidy (SSI) and College Credit Plus program are slightly above budget for both Hamilton and Middletown. Other revenues are on budget.

Most expenditures on both campuses are tracking close to budget. However, personnel and benefit costs are \$0.2 million below budget on the Hamilton campus and \$1.3 million below budget on the Middletown campus. The actual performance in these categories has exceeded the underspending assumed in the budget. Utilities are slightly below budget on the Hamilton campus and slightly above budget on the Middletown campus.

Overall, the General Fund for Hamilton is projected to end the fiscal year with a \$0.3 million surplus prior to adjustments. The Middletown campus General Fund is projected to have an operating surplus of \$1.3 million prior to adjustments.





## VOICE OF AMERICA LEARNING CENTER

The Voice of America Learning Center (VOALC) is projected to end the fiscal year on budget. As in the prior fiscal year, the funding support for the VOALC has been separately displayed for all three campuses and the VOALC. This transfer represents the budgeted financial support from each campus for funding the VOALC administrative operations.

#### MIAMI UNIVERSITY FY2020 Forecast **Oxford General Fund Only** As of December 31, 2019

		Original		December End-of-Year		December Budget to
		<u>Budget</u>		Forecast		Forecast
REVENUES: Instructional & OOS Surcharge	¢	395,820,449	¢	207 611 151	\$	(9.179.000)
Less Cohort Financial Aid Discount		101,863,363	φ	387,641,451 102,283,463	φ	(8,178,999) 420,100
Net Instructional Fee & Out-of-State Surcharge		293,957,086		285,357,988		(8,599,099)
General		52,018,517		51,104,419	\$	(914,098)
Other Student Revenue		2,596,500		2,596,500	Ŧ	-
Tuition, Fees and Other Student Charges		348,572,103		339,058,907		(9,513,196)
State Appropriations		64,289,270		66,055,952	\$	1,766,682
Investment Income		6,390,000		6,390,000	\$	-
Other Revenue		1,450,000		1,450,000	\$	-
Total Revenues	\$	420,701,373	\$	412,954,859	\$	(7,746,514)
EXPENDITURES:						
Salaries		193,291,147		188,944,749		(4,346,398)
Benefits		34,888,327		33,723,601		(1,164,727)
Healthcare Expense		31,363,719		30,316,659		(1,047,060)
Graduate Assistant, Fellowships & Fee Waivers		24,027,713		21,728,383		(1,047,000) (2,299,330)
Undergraduate Scholarships & Student Waivers		14,599,159		14,599,159		(2,200,000)
Utilities		13,360,064		13,360,064		-
Departmental Support Expenditures		27,596,173		27,596,173		_
Multi-year Expenditures		5,338,963		5,338,963		_
Total Expenditures	\$	344,465,265	\$	335,607,751	\$	(8,857,514)
·						
DEBT SERVICE AND TRANSFERS:						
General Fee		(51,528,646)		(50,614,548)		914,098
Capital, Renewal & Replacement		(5,480,000)		(5,480,000)		-
Debt Service		(6,779,324)		(6,779,324)		-
Support for VOALC (50%)		(584,244)		(584,244)		-
Other Miscellaneous Operational Transfers		(4,584,788)		(4,584,788)		-
Other Transfers (net)		464,258		464,258		-
Total Debt Service and Transfers	\$	(68,492,744)	\$	(67,578,646)	\$	914,098
Net Revenues/(Expenditures) Before Adjustments	\$	7,743,364	\$	9,768,462	\$	2,025,097
ADJUSTMENTS:						
Departmental Budgetary Carryforward				(6,558,184)		
Strategic Investment Funding - Unallocated Funds				(1,315,287)		
Strategic Investment Funding - Divisional Carryforward				(8,333,333)		
Reserve for Carry Forward				8,333,333		
Divisional Revenue Carry Forward						
Reserve for Investment Fluctuations						
Reserve for Encumbrances						
Future Student Facilities CR&R						
Net Increase/(Decrease) in Fund Balance	\$	7,743,364	\$	1,894,991		

#### MIAMI UNIVERSITY FY2020 Forecast Hamilton General Fund Only As of December 31, 2019

		Original <u>Budget</u>		December End-of-Year		December Budget to <u>Forecast</u>
REVENUES:		Budget		<u>Forecast</u>		Forecast
Instructional & OOS Surcharge - Regional Students Instructional & OOS Surcharge - Cross Campus Less Continuing & New Scholarships	\$	15,008,471 3,962,651 852,600	\$	14,635,784 4,027,555 657,930	\$	(372,687) 64,904 (194,670)
Net Instructional Fee & Out-of-State Surcharge General		18,118,522 944,194		18,005,409 917,458		(113,113) (26,736)
Other Student Revenue Tuition, Fees and Other Student Charges		193,500 19,256,216		193,500 19,116,367		- (139,849)
State Appropriations - SSI State Appropriations - CCP		6,614,998 314,904		6,688,337 313,228		73,339 (1,676)
Investment Income Other Revenue		50,000 79,500		50,000 79,500		-
Total Revenues	\$	<b>26,315,618</b>	\$	<b>26,247,432</b>	\$	 (68,186)
	<u> </u>	20,010,010	¥	20,2, .02	Ŷ	(00)100/
EXPENDITURES:						
Salaries		16,424,224		16,424,224		-
Allowance for Unspent Salaries		(1,312,798)		(1,412,423)		(99,625)
Benefits		3,147,068		3,147,068		-
Allowance for Unspent Benefits		(505,427)		(628,495)		(123,068)
Healthcare Expense		2,652,910		2,652,910		-
Anticipated Benefit Recovery Graduate Assistant Fee Waivers		(163,352)		(163,352)		-
Utilities		- 608,000		- 472,635		- (135,365)
Departmental Support Expenditures		4,902,318		4,902,318		(135,505)
Multi-year Expenditures		4,302,310		4,902,910		-
Total Expenditures	\$	25,752,943	\$	25,394,885	\$	(358,058)
		-, -,	r	-,,	r	(
DEBT SERVICE AND TRANSFERS:						
General Fee		(281,919)		(263,670)		18,249
Capital, Renewal & Replacement				-		-
Debt Service				-		-
Support for VOALC (25%)		(280,755)		(280,755)		-
Other Miscellaneous Operational Transfers Total Debt Service and Transfers	\$	(562,674)	\$	(544,425)	\$	- 18,249
Total Debt Service and Transfers	Ψ	(302,074)	Ψ	(344,423)	Ψ	10,249
Net Revenues/(Expenditures) Before Adjustments	\$	-	\$	308,122	\$	308,121
ADJUSTMENTS:						
Departmental Budgetary Carryforward						
Divisional Budgetary Carryforward				(358,058)		
Strategic Investment Funding - Divisional Carryforward Reserve for Carry Forward				(344,928) 344,928		
Transfer from Fund Balance				544,920		
Reserve for Encumbrances						
Reserve for Investment Fluctuations						
Reserve for Future Budgets	_		_		_	
Net Increase/(Decrease) in Fund Balance	\$	-	\$	(49,936)	\$	308,121
			*	(10,000)	7	

Attachment Page 7 of 18

Overall Page 160 of 190

#### MIAMI UNIVERSITY FY2020 Forecast Middletown General Fund Only As of December 31, 2019

		Original <u>Budget</u>		December End-of-Year <u>Forecast</u>		December Budget to Forecast
REVENUES:		<u></u>		TOIECast		TURCASE
Instructional & OOS Surcharge - Regional Students Instructional & OOS Surcharge - Cross Campus Less Continuing & New Scholarships	\$	13,104,988 1,703,147 1,240,058	\$	13,520,688 972,445 1,088,838	\$	415,700 (730,702) (151,220)
Net Instructional Fee & Out-of-State Surcharge		13,568,077		13,404,295		(163,782)
General		601,098		630,614		29,516
Other Student Revenue		80,700		80,700		-
Tuition, Fees and Other Student Charges		14,249,875		14,115,609		(134,266)
State Appropriations - SSI		4,268,078		4,356,815		88,737
State Appropriations - CCP		637,826		734,064		96,238
Investment Income		50,000		50,000		-
Other Revenue		10,402		10,402		-
Total Revenues	\$	19,216,181	\$	19,266,890	\$	50,709
EXPENDITURES:						
Salaries		11,275,065		11,275,065		-
Allowance for Unspent Salaries		(555,607)		(1,542,315)		(986,708)
Benefits		2,126,176		2,126,176		-
Allowance for Unspent Benefits		(213,908)		(567,533)		(353,625)
Healthcare Expense		1,762,933		1,762,933		-
Anticipated Benefit Recovery		(117,898)		(117,898)		-
Graduate Assistant Fee Waivers				-		-
Utilities		421,000		531,884		110,884
Departmental Support Expenditures		3,991,676		3,991,676		-
Multi-year Expenditures		10.000 107		-	•	-
Total Expenditures	\$	18,689,437	\$	17,459,988	\$	(1,229,449)
DEBT SERVICE AND TRANSFERS:						
DEBT SERVICE AND TRANSFERS: General Fee		(184,247)		(213,763)		(29,516)
		(184,247)		(213,763) -		(29,516) -
General Fee		(184,247) (61,741)		(213,763) - (61,741)		(29,516) - -
General Fee Capital, Renewal & Replacement		. ,		-		(29,516) - - -
General Fee Capital, Renewal & Replacement Debt Service		(61,741)		(61,741)		(29,516) - - - -
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%)	\$	(61,741)	\$	(61,741)	\$	(29,516) - - - - - ( <b>29,516)</b>
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers	<b>\$</b> \$	(61,741) (280,755)	<b>\$</b>	(61,741) (280,755)	<b>\$</b>	
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments		(61,741) (280,755)		(61,741) (280,755) (556,259)		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS:		(61,741) (280,755)		(61,741) (280,755) (556,259)		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS: Departmental Budgetary Carryforward		(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward	\$	(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643 (1,229,449)		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward Strategic Investment Funding - Divisional Carryforward	\$	(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward	\$	(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643 (1,229,449) (392,982)		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward Strategic Investment Funding - Divisional Carryforward Reserve for Carry Forward	\$	(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643 (1,229,449) (392,982)		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward Strategic Investment Funding - Divisional Carryforward Reserve for Carry Forward Transfer from Fund Balance	\$	(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643 (1,229,449) (392,982)		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> <b>Net Revenues/(Expenditures) Before Adjustments</b> ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward Strategic Investment Funding - Divisional Carryforward Reserve for Carry Forward Transfer from Fund Balance Reserve for Encumbrances	\$	(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643 (1,229,449) (392,982)		(29,516)
General Fee Capital, Renewal & Replacement Debt Service Support for VOALC (25%) Other Miscellaneous Operational Transfers <b>Total Debt Service and Transfers</b> Net Revenues/(Expenditures) Before Adjustments ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward Strategic Investment Funding - Divisional Carryforward Strategic Investment Funding - Divisional Carryforward Transfer from Fund Balance Reserve for Encumbrances Reserve for Investment Fluctuations	\$	(61,741) (280,755)		(61,741) (280,755) (556,259) 1,250,643 (1,229,449) (392,982)		(29,516)

Attachment I

Overall Page 161 of 190

Attachment Page 8 of 18

### MIAMI UNIVERSITY FY2020 Forecast Voice of America Learning Center General Fund Only

As of December 31, 2019

		Original <u>Budget</u>	Е	December nd-of-Year Forecast	В	ecember audget to Forecast
REVENUES: Instructional & OOS Surcharge - Regional Studer Instructional & OOS Surcharge - Cross Campus Less Continuing & New Scholarships	its				\$	- - -
Net Instructional Fee & Out-of-State Surcharge General		-		-		-
Other Student Revenue Tuition, Fees and Other Student Charges		-		-		-
State Appropriations - SSI State Appropriations - CCP Investment Income Other Revenue		35,000		-		- - - (35,000)
Total Revenues	\$	35,000	\$	-	\$	(35,000)
EXPENDITURES: Salaries Allowance for Unspent Salaries		214,504		178,876		(35,628)
Allowance for Unspent Salaries Allowance for Unspent Benefits		43,069		35,862		- (7,207)
Healthcare Expense Anticipated Benefit Recovery Graduate Assistant Fee Waivers		39,517		32,905		(6,612) - -
Utilities Departmental Support Expenditures		62,320 265,718		62,320 265,718		-
Multi-year Expenditures						-
Total Expenditures	\$	625,128	\$	575,681	\$	(49,447)
DEBT SERVICE AND TRANSFERS: General Fee						-
Capital, Renewal & Replacement		(100,706)		(100,706)		-
Debt Service Support for VOALC (25%)		(432,186) 1,123,020		(432,186) 1,123,020		-
Other Miscellaneous Operational Transfers		1,120,020		1,120,020		_
Total Debt Service and Transfers	\$	590,128	\$	590,128	\$	-
Net Revenues/(Expenditures) Before Adjustments	\$	-	\$	14,447	\$	14,447
ADJUSTMENTS: Departmental Budgetary Carryforward Divisional Budgetary Carryforward						
Strategic Investment Funding - Divisional Carryfor	ward					
Reserve for Carry Forward Transfer from Fund Balance Reserve for Encumbrances Reserve for Investment Fluctuations Reserve for Future Budgets						
Net Increase/(Decrease) in Fund Balance	\$		\$	14,447	\$	14,447

#### Financial Highlights SVP Creamer MIAMI UNIVERSITY Financial Analysis - by Operational Unit (Oxford Campus) FY2020 / FY2019 / FY2018

	FY2018	FY2019	FY2020	Thru D	ecember Year To I			
	Year End Actual	Year End Actual	Budget	FY2020	FY2019	FY2018	% of '20 Budge	et % Change from '19 YT
College of Arts & Sciences								
Salary	\$ 55,391,368	\$ 56,795,655	\$ 46,191,905	\$ 26,519,911	\$ 26,750,065	\$ 25,935,868	57%	-1%
Benefits	16,251,298	16,419,805	14,664,180	8,601,657	8,581,738	8,879,243	59%	0%
Scholarships & Fellowships	9,715,232	9,506,226	10,622,790	5,288,274	5,336,837	5,760,799	50%	-1%
Departmental Support Expenses	5,457,166	5,657,275	7,349,102	2,234,939	2,453,324	2,412,031	30%	-9%
Total Expenses	86,815,064	88,378,961	78,827,977	42,644,781	43,121,964	42,987,941	54%	-1%
College of Education, Health, and Society	L							
Salary	14,558,439	15,216,349	12,502,924	7,135,803	6,912,059	6,500,628	57%	3%
Benefits	4,200,871	4,324,382	4,254,460	2,323,834	2,235,561	2,277,056	55%	4%
Scholarships & Fellowships	1,757,175	1,934,663	2,061,421	929,534	1,053,842	904,225	45%	-12%
Departmental Support Expenses	1,687,944	1,614,142	2,298,200	716,426	712,522	619,931	31%	1%
Total Expenses	22,204,429	23,089,536	21,117,005	11,105,597	10,913,984	10,301,840	53%	2%
College of Engineering and Computing								
Salary	8,649,691	9,504,455	8,949,495	4,862,235	4,512,701	4,051,602	54%	8%
Benefits	2,647,657	2,921,207	3,274,643	1,658,151	1,540,137	1,446,900	51%	8%
Scholarships & Fellowships	677,959	752,015	594,660	452,843	386,902	349,323	76%	17%
Departmental Support Expenses	1,236,007	1,381,992	515,313	762,556	424,639	531,323	148%	80%
Total Expenses	13,211,314	14,559,669	13,334,111	7,735,785	6,864,379	6,379,148	58%	13%
Farmer School of Business								
Salary	23,599,921	22,574,638	15,436,962	10,504,592	11,133,920	10,975,716	68%	-6%
Benefits	7,498,205	6,871,770	5,827,909	3,785,817	3,934,838	4,096,516	65%	-4%
Scholarships & Fellowships	468,272	514,727	891,990	259,664	282,233	250,921	29%	-8%
Departmental Support Expenses	2,486,473	2,262,502	3,165,197	992,742	1,173,872	1,143,427	31%	-15%
Total Expenses	34,052,871	32,223,637	25,322,058	15,542,815	16,524,863	16,466,580	61%	-6%
College of Creative Arts	40.054.000	10.041.000	0 (70 000	5 000 500	5 400 770	4 757 005	550/	201
Salary	10,254,633	10,841,620	9,678,023	5,338,500	5,193,772	4,757,385	55%	3%
Benefits	3,062,501	3,353,563	3,411,981	1,813,149	1,739,040	1,702,761	53%	4%
Scholarships & Fellowships	1,289,352	1,674,470	1,540,710	874,628	882,239	687,973	57%	-1%
Departmental Support Expenses	1,093,514	1,260,330	1,191,394	748,978	694,011	576,201	63%	8%
Total Expenses	15,700,000	17,129,983	15,822,108	8,775,255	8,509,062	7,724,320	55%	3%
Dolibois European Center - Luxemburg								
Salary	1,033,391	1,091,149	1,297,328	540,796	528,412	391,492	42%	2%
Benefits	169,985	154,416	499,848	83,281	79,217	75,172	17%	5%
Utilities	27,691	25,847	30,503	11,139	11,107	9,690	37%	0%
Departmental Support Expenses	212,738	475,074	248,307	121,806	301,213	94,402	49%	-60%
Total Expenses	1,443,805	1,746,486	2,075,986	757,022	919,949	570,756	36%	-18%

#### Financial Highlights SVP Creamer MIAMI UNIVERSITY Financial Analysis - by Operational Unit (Oxford Campus) FY2020 / FY2019 / FY2018

	FY2018	FY2019	FY2020	Thru De	cember Year To D	ate	1	
	Year End Actual	Year End Actual	Budget	FY2020	FY2019	FY2018	% of '20 Budge	et % Change from '19 YTD
Graduate School								
Salary	2,866,367	3,211,441	3,020,914	1,537,025	1,621,613	1,702,359	51%	-5%
Benefits	626,370	716,117	718,763	394,407	373,591	372,716	55%	6%
Scholarships & Fellowships	5,256,660	5,648,783	6,026,172	8,409,124	8,005,549	7,476,519	140%	5%
Departmental Support Expenses	489,768	856,124	749,990	112,995	639,594	319,863	15%	-82%
Total Expenses	9,239,165	10,432,465	10,515,839	10,453,551	10,640,347	9,871,457	99%	-2%
Other Provost Departments								
Salary	8,492,701	9,049,416	29,008,839	5,152,331	4,609,484	4,145,810	18%	12%
Benefits	2,941,190	3,156,183	9,641,037	1,884,653	1,678,635	1,664,629	20%	12%
Scholarships & Fellowships	964,582	921,259	1,128,548	610,063	561,219	610,481	54%	9%
Utilities	838	-	-	-	-	838	0%	0%
Departmental Support Expenses	6,173,889	6,852,455	8,897,191	4,999,969	4,311,022	3,828,781	56%	16%
Total Expenses	18,573,200	19,979,313	48,675,615	12,647,016	11,160,360	10,250,539	26%	13%
Total Provost Office								
Salary	124,846,511	128,284,723	126,086,390	61,591,193	61,262,026	58,460,860	49%	1%
Benefits	37,398,077	37,917,443	42,292,821	20,544,949	20,162,757	20,514,993	49%	2%
Scholarships & Fellowships	20,129,232	20,952,143	22,866,291	16,824,130	16,508,821	16,040,241	74%	2%
Utilities	28,529	25,847	30,503	11,139	11,107	10,528	37%	0%
Departmental Support Expenses	18,837,499	20,359,894	24,414,694	10,690,411	10,710,197	9,525,959	44%	0%
Total Expenses	201,239,848	207,540,050	215,690,699	109,661,822	108,654,908	104,552,581	51%	1%
Physical Facilities								
Salary	15,346,315	15,293,713	16,910,646	7,583,099	7,389,731	7,778,777	45%	3%
Benefits	5,445,823	5,149,978	6,450,694	2,892,198	2,812,516	3,127,740	45%	3%
Utilities	12,983,324	12,817,015	13,329,561	4,981,810	6,379,366	6,440,924	37%	-22%
Departmental Support Expenses	(3,778,347)	(4,810,428)	(4,042,799)	(2,587,417)	(2,750,677)	(2,426,243)	64%	-6%
Total Expenses	29,997,115	28,450,278	32,648,102	12,869,690	13,830,936	14,921,198	39%	-7%
Other Finance & Business Services Depar								
Salary	8,464,090	9,416,188	10,341,433	4,910,491	4,593,039	4,157,371	47%	7%
Benefits	2,843,728	3,334,250	3,893,631	1,851,195	1,737,805	1,676,881	48%	7%
Departmental Support Expenses	2,190,569	966,663	1,453,750	2,071,478	515,005	1,649,065	142%	302%
Total Expenses	13,498,387	13,717,101	15,688,814	8,833,164	6,845,849	7,483,317	56%	29%
Enrollment Management & Student Succ	<u>cess</u>							
Salary	7,160,353	7,839,090	9,205,468	4,078,634	3,877,623	3,585,769	44%	5%
Benefits	2,479,666	2,804,825	3,416,501	1,515,735	1,439,793	1,441,578	44%	5%
Scholarships & Fellowships	88,791,318	98,712,821	116,975,222	59,913,368	51,546,842	47,126,254	51%	16%
Departmental Support Expenses	4,966,507	4,624,542	4,349,781	2,458,669	2,511,961	2,713,672	57%	-2%
Total Expenses	103,397,844	113,981,278	133,946,972	67,966,406	59,376,219	54,867,273	51%	14%

#### Financial Highlights SVP Creamer MIAMI UNIVERSITY Financial Analysis - by Operational Unit (Oxford Campus) FY2020 / FY2019 / FY2018

	FY2018	FY2019	FY2020	Thru De	ecember Year To [			
	Year End Actual	Year End Actual	Budget	FY2020	FY2019	FY2018	% of '20 Budget	% Change from '19 YTD
<b>5</b> · · · ·								
President Seleru	4 515 020	4 ( 02 700	F 417 07/	2 ( 07 000	2 225 (5)	2 240 252	50%	150/
Salary	4,515,020	4,693,790	5,417,076	2,687,898 1,013,112	2,335,656	2,340,352 941,816	50% 50%	15% 15%
Benefits	1,581,830	1,669,052	2,028,281		878,338			7%
Departmental Support Expenses	<u>3,777,969</u> 9,874,819	4,174,574	4,316,976	1,883,308 5,584,318	1,767,988 4,981,982	1,474,955	44% 47%	12%
Total Expenses	9,874,819	10,537,416	11,762,333	5,584,318	4,981,982	4,757,123	47%	12%
Student Affairs								
Salary	8,732,695	6,052,876	9,341,329	4,524,057	4,279,730	2,983,279	48%	6%
Benefits	2,009,080	2,019,483	2,470,760	1,174,081	1,136,875	1,174,690	48%	3%
Scholarships & Fellowships	553,998	470,320	648,720	285,666	259,648	268,434	44%	10%
Departmental Support Expenses	(4,231,016)	(2,168,334)	(4,146,349)	(2,512,781)	(2,375,045)	(802,809)	61%	6%
Total Expenses	7,064,757	6,374,345	8,314,460	3,471,023	3,301,208	3,623,594	42%	5%
University Advancement								
Salary	4,714,696	5,296,015	8,867,436	3,715,533	2,619,072	2,378,171	42%	42%
Benefits	1,638,522	1,675,137	3,386,541	1,416,905	996,191	950,045	42%	42%
Departmental Support Expenses	311,303	267,605	1,416,480	377,912	122,983	127,159	27%	207%
Total Expenses	6,664,521	7,238,757	13,670,457	5,510,350	3,738,246	3,455,375	40%	47%
Information Technology								
Salary	8,022,967	7,941,268	9,596,103	3,787,567	4,059,261	4,106,975	39%	-7%
Benefits	2,784,561	2,604,594	3,684,413	1,452,292	1,556,166	1,660,590	39%	-7%
Departmental Support Expenses	2,564,626	2,985,095	3,417,394	2,675,652	3,332,120	2,515,245	78%	-20%
Total Expenses	13,372,154	13,530,957	16,697,910	7,915,511	8,947,547	8,282,810	47%	-12%
	10,072,101	10,000,707	10,077,710	7,710,011	0,717,017	0,202,010	1770	1270
Centrally Budgeted Funds								
Departmental Support Expenses	1,350,677	2,524,069	8,220,314	2,232,524	1,656,855	1,011,761	27%	35%
Total Expenses	1,350,677	2,524,069	8,220,314	2,232,524	1,656,855	1,011,761	27%	35%
Grand Total								
Salary	179,082,941	184,817,663	195,765,881	92,878,472	90,416,138	85,791,554	47%	3%
Benefits	56,181,287	57,174,762	67,623,642	31,860,467	30,720,441	31,488,333	47%	4%
Scholarships & Fellowships	109,474,548	120,135,284	140,490,233	77,023,164	68,315,311	63,434,929	55%	13%
Utilities	13,011,853	12,842,862	13,360,064	4,992,949	6,390,473	6,451,452	37%	-22%
Departmental Support Expenses	24,713,329	25,935,068	34,061,278	15,866,923	14,193,240	14,569,746	47%	12%
Admin Service Charge	(8,787,536)	(9,201,335)	(10,311,434)	(5,155,721)	(4,600,665)	(4,393,770)	50%	12%
Multi Year Accounts	3,996,164	2,988,612	5,338,963	1,422,833	1,298,147	1,219,018	27%	10%
Total Expenses	\$ 377,672,586	\$ 394,692,916	\$ 446,328,627	\$ 218,889,087	\$ 206,733,085	\$ 198,561,262	49%	6%

Note: Excludes Transfers

	FY2018	FY2019	FY2020	Throug	gh December YTD		FY20 Budget	% of '20	% Change
	Actual	Actual	Budget	FY2020	FY2019	FY2018	to Actual	Budget	from '19 YTD
esidence & Dining Halls									
Revenue	110,277,109	115,254,088	131,852,229	123,067,376	112,578,525	107,795,158	(8,784,853)	93%	9%
General Fee Support	-	-	-	-	-	-	-	0%	0%
Total Sources	110,277,109	115,254,088	131,852,229	123,067,376	112,578,525	107,795,158	(8,784,853)	93%	9%
Salary	13,836,869	13,558,129	17,069,397	7,798,635	6,539,371	6,988,880	(9,270,762)	46%	16%
Benefits	3,910,901	4,110,196	5,656,925	2,641,265	2,239,378	2,463,283	(3,015,660)	47%	15%
Utilites	6,382,869	6,408,810	7,054,771	2,692,099	3,235,339	2,123,137	(4,362,672)	38%	-20%
Charge Outs	(2,869,051)	(304,553)	(588,654)	(396,641)	(221,342)	(989,754)	192,013	67%	44%
Operating Expenses	34,415,008	33,342,778	39,958,210	19,027,684	16,565,315	18,352,334	(20,930,526)	48%	13%
Inventory Purchases	4,393,291	4,006,352	4,865,668	2,318,403	1,981,249	2,147,936	(2,547,265)	48%	15%
Debt Service	41,597,907	42,391,186	41,858,908	24,678,452	21,237,354	20,908,159	(17,180,456)	59%	14%
Total Uses	101,667,794	103,512,898	115,875,225	58,759,897	51,576,664	51,993,975	(57,115,328)	51%	12%
Net Before Non-Mandatory Transfers	8,609,315	11,741,190	15,977,004	64,307,479	61,001,861	55,801,183	48,330,475	403%	5%
Net Transfers	(5,478,456)	(11,661,745)	(15,977,004)	(8,275,014)	(5,675,108)	(2,737,651)	7,701,990	52%	31%
Net Total	3,130,859	79,445	-	56,032,465	55,326,753	53,063,532	56,032,465		1%
river Center									
Revenue	15,835,073	14,702,961	10,289,440	5,010,933	7,525,576	8,109,364	(5,278,507)	49%	-50%
General Fee Support	923,487	951,755	952,132	476,065	475,878	461,743	(476,067)	50%	0%
Total Sources	16,758,560	15,654,716	11,241,572	5,486,998	8,001,454	8,571,107	(5,754,574)	49%	-46%
Salary	3,237,648	3,034,395	1,811,848	778,730	1,465,697	1,634,812	(1,033,118)	43%	-88%
Benefits	864,833	803,972	562,290	233,022	449,716	535,939	(329,268)	41%	-93%
Utilities	329,640	256,343	350,548	65,177	196,385	162,925	(285,371)	19%	-201%
Charge Outs	(406,563)	(693,951)	(1,032,364)	(477,180)	(585,787)	(208,112)		46%	-23%
Operating Expenses	2,680,015	2,579,117	1,225,422	648,121	1,448,348	849,283	(577,301)	53%	-123%
Inventory Purchases	8,655,010	7,506,643	7,710,475	4,280,004	4,279,231	5,595,963	(3,430,471)	56%	0%
Debt Service	46,852	46,880	46,881	23,568	23,593	23,571	(23,313)	50%	0%
Total Uses	15,407,436	13,533,399	10,675,100	5,551,442	7,277,183	8,594,381	(5,123,658)	52%	-31%
Net Before Non-Mandatory Transfers	1,351,124	2,121,317	566,472	(64,444)	724,271	(23,274)		-11%	1224%
Net Transfers	(1,629,405)	(1,169,691)	(566,472)	(188,311)	(513,828)	(688,577)	,	33%	-173%
Net Total	(278,281)	951,625	-	(252,755)	210,443	(711,851)	(252,755)		183%

	FY2018	FY2019	FY2020		gh December YTD		FY20 Budget	% of '20	% Change
	Actual	Actual	Budget	FY2020	FY2019	FY2018	to Actual	Budget	from '19 YTD
larcum Conference Center									
Revenue	1,442,318	1,428,355	1,520,957	742,572	673,904	643,329	(778,385)	49%	9%
General Fee Support	-	-	-	-	-	-	-	0%	0%
Total Source	s 1,442,318	1,428,355	1,520,957	742,572	673,904	643,329	(778,385)	49%	9%
Salary	454,701	422,577	302,234	166,340	201,809	232,654	(135,894)	55%	-21%
Benefits	113,607	117,221	88,698	48,607	62,892	76,752	(40,091)	55%	-29%
Utilities	149,648	150,965	162,531	57,162	76,053	75,446	(105,369)	35%	-33%
Charge Outs	46,131	28,722	32,865	-	-	-	(32,865)	0%	0%
Operating Expenses	382,678	363,934	638,791	269,037	222,366	194,345	(369,754)	42%	17%
Inventory Purchases	5,637	8,537	5,628	7,316	2,952	2,004	1,688	130%	60%
Debt Service	-	-	-	-	-	-	-	0%	0%
Total Use	, - , -	1,091,956	1,230,747	548,462	566,072	581,201	(682,285)	45%	-3%
Net Before Non-Mandatory Transfe		336,399	290,210	194,110	107,832	62,128	(96,100)	67%	44%
Net Transfers	(326,472)	(165,182)	(290,210)	(145,104)	(82,591)	(163,236)	145,106	50%	43%
Net Total	(36,556)	171,217	-	49,006	25,241	(101,108)	49,006		48%
ntercollegiate Athletics									
Revenue	7,223,469	7,627,686	7,976,430	1,295,393	3,183,446	1,427,546	(6,681,037)	16%	-146%
General Fee Support	17,763,652	18,654,753	19,093,317	9,546,659	9,090,044	8,486,823	(9,546,658)	50%	5%
Designated Revenue	805,879	581,185	824,200	553,915	570,871	466,843	(270,285)	67%	-3%
Restricted Revenue	2,328,012	1,766,163	2,172,751	1,871,073	1,296,824	794,810	(301,678)	86%	31%
Total Source	es 28,121,012	28,629,787	30,066,698	13,267,040	14,141,185	11,176,022	(16,799,658)	44%	-7%
Salary	8,763,986	9,271,499	8,887,833	4,984,538	4,591,394	4,374,263	(3,903,295)	56%	8%
Benefits	2,939,687	3,107,709	3,318,343	1,802,416	1,704,801	1,717,561	(1,515,927)	54%	5%
Utilities	4,836	(1,517)	2,500	44	(1,401)	3,364	(2,456)	2%	3284%
Charge Outs	(139,306)	(167,213)	-	(33,701)	(5,589)	-	(33,701)	0%	83%
Operating Expenses	14,775,767	14,932,185	14,811,071	8,708,530	8,919,216	8,624,240	(6,102,541)	59%	-2%
Inventory Purchases	-	-	-	-	-	-	-	0%	0%
Debt Service	-	-	-	-	-	-	-	0%	0%
Designated Expense	735.643	692,903	824,200	682,350	584,944	577.023	(141.850)	83%	14%
Restricted Expense	2,029,134	1,236,245	2,172,751	1,018,058	826,597	648,399	(1,154,693)	47%	19%
Total Use	, ,	29,071,811	30,016,698	17,162,235	16,619,962	15,944,850	(12,854,463)	57%	3%
Net Before Non-Mandatory Transfe	-,,	(442,024)	50,000	(3,895,195)	(2,478,777)	(4,768,828)	(3,945,195)	-7790%	36%
Net Transfers	757,555	619,960	(50,000)	(27,427)	627,568	564,999	22,573	55%	2388%
Net Total	(231,180)	177,936		(3,922,622)	(1,851,209)	(4,203,829)	(3,922,622)		53%

	FY2018	FY2019	FY2020		gh December YTD	5/0040	FY20 Budget	% of '20	% Change
Recreation Center	Actual	Actual	Budget	FY2020	FY2019	FY2018	to Actual	Budget	from '19 YTD
Revenue	3,013,758	2,971,633	3,047,645	1,498,909	1,622,251	1,646,126	(1,548,736)	49%	-8%
General Fee Support	3,848,807	3,928,304	3,881,561	1,940,779	1,964,153	1,924,404	(1,940,782)	49 <i>%</i> 50%	-1%
Total Sources	6,862,565	6,899,937	6,929,206	3,439,688	3,586,404	3,570,530	(3,489,518)	50%	-4%
Salary	2,826,216	2,562,853	2,652,407	1,187,022	1,324,093	1,433,638	(1,465,385)	45%	-4 %
Benefits	660,094	550,288	681,247	301,371	340,282	399,729	(1,403,383)	43%	-12%
							· · · /		
Utilities	749,916	708,921	747,269	294,688	380,328	354,546	(452,581)	39%	-29%
Charge Outs	-	(48)	-	(862)	-	-	(862)	0%	100%
Operating Expenses	1,346,677	1,500,379	1,615,590	909,904	730,008	714,868	(705,686)	56%	20%
Inventory Purchases	276,142	255,198	230,000	105,015	116,290	113,001	(124,985)	46%	-11%
Debt Service	-	-	-		-	-	-	0%	0%
Total Uses	5,859,044	5,577,591	5,926,513	2,797,138	2,891,001	3,015,782	(3,129,375)	47%	-3%
Net Before Non-Mandatory Transfers	1,003,521	1,322,346	1,002,693	642,550	695,403	554,748	(360,143)	64%	-8%
Net Transfers	(732,362)	(950,574)	(1,002,693)	(581,971)	(455,704)	(382,641)	420,722	58%	22%
Net Total	271,159	371,772	-	60,579	239,699	172,107	60,579		-296%
Goggin Ice Arena									
Revenue	1,862,814	1,844,163	1,821,240	1,098,535	1,067,310	1,021,971	(722,705)	60%	3%
General Fee Support	4,322,497	4,370,401	4,437,263	2,218,632	2,185,200	2,161,250	(2,218,631)	50%	2%
Total Sources	6,185,311	6,214,564	6,258,503	3,317,167	3,252,510	3,183,221	(2,941,336)	53%	2%
Salary	1,304,892	1,063,317	1,124,310	566,317	551,192	658,857	(557,993)	50%	3%
Benefits	377,936	311,342	360,626	176,658	175,868	233,056	(183,968)	49%	0%
Utilities	1,073,959	1,025,372	943,989	401,791	562,160	548,849	(542,198)	43%	-40%
Charge Outs	1,070,000	-	545,505	-	-	540,045	(042,130)	40%	0%
5	-		000 040			-	(545,000)	43%	3%
Operating Expenses Inventory Purchases	601,219 211,756	796,278 224,248	906,249 195,000	390,427 121,940	379,257 116,794	328,034 116,978	(515,822) (73,060)	43% 63%	3% 4%
Debt Service	1,826,892	1,825,522	1,839,992	922,924	915,732	916,342	(917,068)	50%	1%
Total Uses	5,396,654	5,246,079	5,370,166		2,701,003	2,802,116	(2,790,109)	48%	-5%
Net Before Non-Mandatory Transfers	788,657	968,485	888,337	2,580,057 737,110	551,507	381,105	(2,790,109)	83%	25%
Net Transfers	(551,161)	(800,000)	(888,337)	(442,715)	(250,086)	(292,529)	445,622	50%	44%
Net Total	237,496	168,485	(000,337)	294,395	301,421	88,576	294,395	50%	-2%
Net Total	237,490	100,400		294,090	501,421	00,570	294,090		-2 /0
Student Health Services									
Revenue	3,065,498	2,975,119	3,073,870	1,646,078	1,661,486	1,746,809	(1,427,792)	54%	-1%
General Fee Support	-	-	-	-	-	-	-	0%	0%
Total Sources	3,065,498	2,975,119	3,073,870	1,646,078	1,661,486	1,746,809	(1,427,792)	54%	-1%
Salary	651,399	531,573	458,704	227,622	270,596	338,336	(231,082)	50%	-19%
Benefits	216,079	168,361	174,676	84,428	98,085	137,026	(90,248)	48%	-16%
Utilities	12,250	1,885	2,942	434	1,471	6,482	(2,508)	15%	-239%
Charge Outs	-	-	-	-	-	-	-	0%	0%
Operating Expenses	2,567,026	2,310,984	2,437,148	826,171	1,084,413	1,262,016	(1,610,977)	34%	-31%
Inventory Purchases	-	569	400	-	346	-	(400)	0%	0%
Debt Service	-	-	-	-	-	-	- 1	0%	0%
Total Uses	3,446,755	3,013,372	3,073,870	1,138,655	1,454,911	1,743,860	(1,935,215)	37%	-28%
Net Before Non-Mandatory Transfers	(381,257)	(38,253)	-	507,423	206,575	2,949	507,423	0%	59%
Net Transfers	(166,474)	28,111	-	-	-	(83,238)	-	0%	0%
Net Total	(547,731)	(10,142)	-	507,423	206,575	(80,289)	507,423		59%

	FY2018	FY2019	FY2020		gh December YTD		FY20 Budget	% of '20	% Change
	Actual	Actual	Budget	FY2020	FY2019	FY2018	to Actual	Budget	from '19 YT
nsportation Services									
Revenue	2,656,984	2,641,218	2,420,000	1,442,581	1,410,138	1,457,339	(977,419)	60%	2%
General Fee Support	2.567.669	2,585,955	2,657,207	1,328,605	1,292,977	1,283,834	(1,328,602)	50%	3%
Total Source	,,	5,227,173	5,077,207	2,771,186	2,703,115	2,741,173	(2,306,021)	55%	2%
Salary	221.752	217,458	263,463	93.197	99,269	114,399	(170,266)	35%	-7%
Benefits	69,606	69,530	93,767	34,939	35,703	41,103	(58,828)	37%	-2%
Utilities	-	-	-	-	-	-	-	0%	0%
Charge Outs	(74,823)	(68,375)	(20,000)	(51,219)	(52,808)	(57,474)	(31,219)	256%	-3%
Operating Expenses	2,516,475	2,333,889	2,720,185	1,005,865	1,202,853	997,779	(1,714,320)	37%	-20%
Inventory Purchases	2,010,410	2,000,000	-	-	-	-	(1,714,020)	0%	0%
Debt Service	1,566,244	1,524,074	1,532,588	769,176	764,696	811,865	(763,412)	50%	1%
Total Use	, ,	4,076,576	4,590,003	1,851,958	2,049,713	1,907,672	(2,738,045)	40%	-11%
Net Before Non-Mandatory Transfer		1,150,597	487,204	919,228	653,402	833,501	432,024	189%	29%
Net Transfers	(435,258)	(463,961)	(487,204)	(243,600)	(231,979)	(217,631)	243,604	50%	5%
Net Total	490,142	686,636	-	675,628	421,423	615,870	675,628		38%
<mark>ity Enterprise</mark> Revenue	_	-	_	-	_	-	-	0%	0%
General Fee Support	_	_	_	_	_	_	_	0%	0%
Total Source	-	-	-	<u>-</u>	-	-	-	0%	0%
Salary	1,511,017	1,481,032	1,732,255	750,963	699,857	748,377	(981,292)	43%	7%
Benefits	528,650	525,249	660,093	288,297	267,102	300,855	(371,796)	44%	7%
Utilities	9,686,460	9,666,479	10,381,187	4,193,406	4,529,140	3,956,058	(6,187,781)	40%	-8%
Charge Outs	(13,016)	-	(42,000)	(549)	-	(2,760)	41,451	1%	100%
Expense Recovery	(23,613,835)	(23,459,653)	(23,548,120)	(9,349,243)	(12,042,384)	(11,792,021)	14,198,877	40%	-29%
Operating Expenses	1,348,048	1,101,461	1,835,380	522,094	368,096	941,557	(1,313,286)	28%	29%
Inventory Purchases	-	-	-	-	-	-	- 1	0%	0%
	2.345.921	2,305,610	2,309,864	1,161,727	1,158,867	1,225,556	(1,148,137)	50%	0%
Debt Service			(6,671,341)	(2,433,305)	(5,019,322)	(4,622,378)	4,238,036	36%	-106%
	,,-	(8,379,822)	(0,071,341)						
Debt Service	s (8,206,755)	(8,379,822) 8,379,822	6,671,341	2,433,305	5,019,322	4,622,378	(4,238,036)	36%	-106%
Debt Service Total Use	(8,206,755)				5,019,322 (3,191,374)	4,622,378 (3,120,599)	(4,238,036) 3,373,171	36% 49%	<mark>-106%</mark> 3%

Γ	FY2018	FY2019	FY2020	Throug	gh December YTD		FY20 Budget	% of '20	% Change
	Actual	Actual	Budget	FY2020	FY2019	FY2018	to Actual	Budget	from '19 YTD
Armstrong - Student Affairs									
Revenue	187,793	181,079	176,960	85,660	85,352	78,550	(91,300)	48%	0%
General Fee Support	5,452,615	5,519,698	5,654,466	3,304,812	3,225,881	3,181,913	(2,349,654)	58%	2%
Total Sources	5,640,408	5,700,777	5,831,426	3,390,472	3,311,233	3,260,463	(2,440,954)	58%	2%
Salary	455,320	485,985	570,112	245,671	244,618	237,834	(324,441)	43%	0%
Benefits	94,348	103,410	110,627	55,460	53,509	53,944	(55,167)	50%	4%
Utilities	378,003	352,454	368,196	134,321	180,512	160,104	(233,875)	36%	-34%
Charge Outs	-	-	-	-	-	-	-	0%	0%
Operating Expenses	763,509	890,961	1,064,930	854,020	651,805	706,345	(210,910)	80%	24%
Inventory Purchases	-	-	-	-	-	-	-	0%	0%
Debt Service	2,450,000	2,450,000	2,450,000	1,225,000	1,225,000	1,225,000	(1,225,000)	50%	0%
Total Uses	4,141,179	4,282,810	4,563,865	2,514,472	2,355,444	2,383,227	(2,049,393)	55%	6%
Net Before Non-Mandatory Transfers	1,492,439	1,417,967	1,267,561	876,000	955,789	877,236	(391,561)	69%	-9%
Net Transfers	(1,159,542)	(1,132,756)	(1,267,561)	(1,108,595)	(987,413)	(1,028,371)	158,966	87%	11%
Net Total	332,897	285,211	-	(232,595)	(31,624)	(151,135)	(232,595)		86%
Miscellaneous Facilities									
Revenue	195,942	148,306	162,100	55,605	76,261	105,524	(106,495)	34%	-37%
General Fee Support	1,211,959	1,213,540	312,206	312,206	1,213,540	1,010,189	-	100%	-289%
Total Sources	1,407,901	1,361,846	474,306	367,811	1,289,801	1,115,713	(106,495)	78%	-251%
Salary	70,514	69,336	10,500	21,765	34,912	35,287	11,265	207%	-60%
Benefits	20,940	20,776	179	8,379	11,641	12,172	8,200	4681%	-39%
Utilities	_	_	_	_	_	,	-	0%	0%
Charge Outs	-	_	_	_	_	_	_	0%	0%
Operating Expenses	535,490	159,582	151,422	63,999	73,398	271,559	(87,423)	42%	-15%
Inventory Purchases	-	-	-	-	-	-	(07,420)	0%	0%
Debt Service	403.544	405.124	312,206	156,589	203,096	202,293	(155,617)	50%	-30%
Total Uses	1,030,489	654,818	474,307	250,732	323,047	521,311	(223,575)	53%	-29%
Net Before Non-Mandatory Transfers	377,412	707,028	(1)	117,079	966,754	594,402	117,080	-11707900%	-726%
Net Transfers	(508,355)	(795,876)	-	-	(795,876)	(275,211)	-	0%	0%
Net Total	(130,943)	(88,848)	(1)	117,079	170,878	319,191	117,080		-46%
				•	•				
Total Auxiliary									

Γ	FY2018	FY2019	FY2020	Throug	gh December YTD	1	FY20 Budget	% of '20	% Change
	Actual	Actual	Budget	FY2020	FY2019	FY2018	to Actual	Budget	from '19 YTD
Revenue	145,760,758	149,774,608	162,340,871	135,943,642	129,884,249	124,031,716	(26,397,229)	84%	4%
General Fee Support	36,083,896	37,224,406	36,988,152	19,127,758	19,447,673	18,510,156	(17,860,394)	52%	-2%
Designated Revenue	805,879	581,185	824,200	553,915	570,871	466,843	(270,285)	67%	-3%
Restricted Revenue	2,328,012	1,766,163	2,172,751	1,871,073	1,296,824	794,810	(301,678)	86%	31%
Total Sources	184,978,545	189,346,362	202,325,974	157,496,388	151,199,617	143,803,525	(44,829,586)	78%	4%
Salary	33,334,314	32,698,154	34,883,063	16,820,800	16,022,808	16,797,337	(18,062,263)	48%	5%
Benefits	9,796,681	9,888,054	11,707,471	5,674,842	5,438,977	5,971,420	(6,032,629)	48%	4%
Utilities	18,767,581	18,569,712	20,013,933	7,839,122	9,159,987	7,390,911	(12,174,811)	39%	-17%
Charge Outs	(3,456,628)	(1,205,418)	(1,650,153)	(960,152)	(865,526)	(1,258,100)	690,001	58%	10%
Expense Recovery	(23,613,835)	(23,459,653)	(23,548,120)	(9,349,243)	(12,042,384)	(11,792,021)	14,198,877	40%	-29%
Operating Expenses	61,931,912	60,311,548	67,364,398	33,225,852	31,645,075	33,242,360	(34,138,546)	49%	5%
Inventory Purchases	13,541,836	12,001,547	13,007,171	6,832,678	6,496,862	7,975,882	(6,174,493)	53%	5%
Debt Service	50,237,360	50,948,396	50,350,439	28,937,436	25,528,338	25,312,786	(21,413,003)	57%	12%
Designated Expense	735,643	692,903	824,200	682,350	584,944	577,023	(141,850)	83%	14%
Restricted Expense	2,029,134	1,236,245	2,172,751	1,018,058	826,597	648,399	(1,154,693)	47%	19%
Total Uses	163,303,998	161,681,488	175,125,153	90,721,743	82,795,678	84,865,997	(84,403,410)	52%	9%
Net Before Non-Mandatory Transfers	21,674,547	27,664,874	27,200,821	66,774,645	68,403,939	58,937,528	39,573,824	245%	-2%
Net Transfers	(16,466,293)	(22,896,048)	(27,200,822)	(14,310,907)	(11,556,391)	(8,424,685)	12,889,915	53%	19%
Net Total	5,208,254	4,768,825	(1)	52,463,738	56,847,548	50,512,843	52,463,739		-8%

# **Enrollment Update**

# **Board of Trustees Meeting**

Finance and Audit Committee February 20, 2020



Attachment J

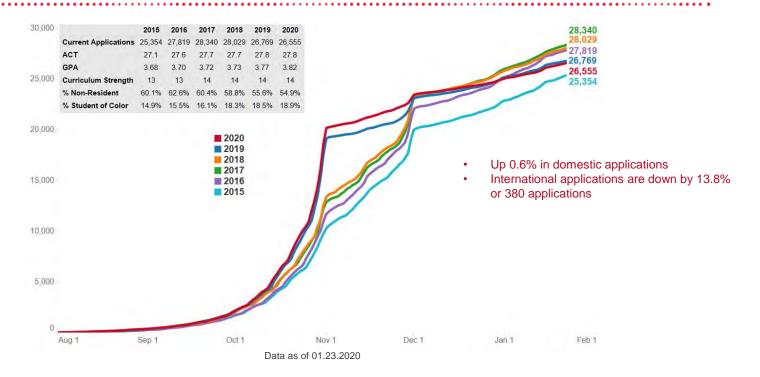
Overall Page 172 of 190

Attachment Page 1 of 9

# Key Enrollment Goals Fall 2020

- » Reverse declining trend in applications to exceed 30,000
- » Enroll a cohort of 4,300 to 4,400 first-year students
  - Increase domestic nonresident enrollments to 42% of incoming class
  - » Enroll 250 international students, including ACE
  - » Maintain diversity and academic quality metrics

# Application and Key Indicator History Fall 2020



# Fall 2020 Applications Residency

	2018	2019	2020	∆ 2019 to 2020
Non-Resident	16,470	14,890	14,567	-2.2%
Domestic Non-Resident	12,829	12,165	12,210	0.4%
International	3,641	2,725	2,357	-13.5%
China	2,917	1,876	1,278	-31.9%
Ohio Resident	11,559	11,879	11,988	0.9%
Grand Total	28,029	26,769	26,555	-0.8%

- The decline is entirely from China. If not for increases in applications from other countries, international applications would be down 22% year over year.
- A new recruitment partnership kicked off January 3<sup>rd</sup>, with a new streamlined application launched on January 16<sup>th</sup>.

Data as of 01.23.2020

# Fall 2020 Applications Top Countries

	2018	2019	2020	<b>△ 2019 to 2020</b>
China	2,917	1,876	1,278	-31.9%
Vietnam	158	246	349	41.9%
India	132	142	128	-9.9%
Nepal	23	44	61	38.6%
Nigeria	11	18	49	172.2%
Pakistan	31	41	40	-2.4%
South Korea	25	20	39	95.0%
Ghana	18	18	33	83.3%
Bangladesh	4	11	28	154.5%
Ethiopia	18	31	23	-25.8%
Egypt	11	10	19	90.0%
Other Countries	293	268	310	15.7%
Grand Total	3,641	2,725	2,357	-13.5%

Data as of 01.23.2020

# Fall 2020 Applications Academic Division

- CAS: Up despite 341 fewer international applications year over year. Biggest increases are in Bio, Biochem, Psych, and Speech Path.
- CCA: Nearly 95% of increase is in Games + Sim and Architecture
- CLAAS: Nursing applications are up but have limited spots.

	2018	2019	2020	<b>△ 2019 to 2020</b>
CAS	11,382	11,016	11,186	1.5%
FSB	7,951	7,178	6,923	-3.6%
CEC	3,920	3,774	3,518	-6.8%
EHS	2,574	2,366	2,163	-8.6%
CCA	1,328	1,272	1,457	14.5%
CLAAS	874	1,163	1,308	12.5%
Grand Total	28,029	26,769	26,555	-0.8%

- FSB: 54% of decline is from China alone
- CEC: Declines are across the board, down 150 applications in OH alone
- EHS: Also down across the board; 35% of decline is in OH

# **Confirmation and Key Indicator History** *Fall 2020*

800		2015	2016	2017	2018	2019	2020
000	Current Confirmed	800	772	788	769	801	678
	ACT	26.7	27.5	27.2	27.0	27.0	26.5
700	GPA	3.67	3.67	3.68	3.70	3.67	3.70
	Curriculum Strength	12.5	12.8	12.5	13.0	12.6	12.9
	% Non-Resident	29.6%	32.8%	29.3%	24.7%	31.7%	30.2%
600	% Student of Color	11.5%	9.6%	10.0%	11.2%	11.7%	11.1%
500 400 300 200	2019 2019 2018 2017 2016 2015						
0	Nov 30		Dec 14				Dec 28
						Data as	of 01.23

# Fall 2020 Confirmations Residency

	2018	2019	2020	$\Delta$ 2019 to 2020
Non-Resident	190	254	205	-19.3%
Domestic Non-Resident	189	250	201	-19.6%
International	1	4	4	0.0%
China	1	2	3	50.0%
Ohio Resident	579	547	473	-13.5%
Grand Total	769	801	678	-15.4%

Data as of 01.23.2020

# Fall 2020 Confirmations Academic Division

	2018	2019	2020	<b>△ 2019 to 2020</b>
CAS	403	379	300	-20.8%
FSB	133	196	159	-18.9%
CEC	64	71	46	-35.2%
EHS	118	94	90	-4.3%
CCA	43	41	68	65.9%
CLAAS	8	20	15	-25.0%
Grand Total	769	801	678	-15.4%

- ED confirmations from students not directly admitted to FSB have significantly declined year over year due to a policy change that allows these students until May 1 to confirm.
- This decline is reflected in CAS.

Data as of 01.23.2020

Attachment J

Overall Page 180 of 190

Attachment J

Internal Audit Barbara Jena

February 20, 2020

Reporting Update Item 2

To: Finance and Audit Committee

Barbara K. Jena

From: Barbara K. Jena, Chief Audit Officer

Subject: Internal Audit & Consulting Services - Reporting Update

Date: January 24, 2020

Since the last reporting update in November 2019, one high-risk audit issue was closed and two remain open. The closed issue, further described on page 2, arose in an outsourced IT audit. One of the two open issues pertains to IT vulnerability management. The other issue addresses the need to reconcile fundraising totals annually. Additional information can be found on page 3.

Please let me know if you have questions or comments.

Audit Issue	Status			
	Open audit			Open audit
	issues			issues
Risk Level	11/15/2019	Added	Closed	1/24/2020
High	3	0	1	2

Attachment

#### Internal Audit Barbara Jena Closed Internal Audit Issues

Line	Audit Name And Date	Date Opened	Date Closed	Risk Level	Division	Recommendation	Responsible Person	Management Response and Status
1	<b>174.1</b> - Outsourced Vulnerability Assessment - 5/2019	5/23/2019	12/10/2019	High	IT Services	As part of an assessment of Miami University's overall technical security posture, IACS outsourced a web application penetration test on two web applications. The objective of the security assessment was to reveal any potential issues that could result in a breach and/or disclosure of potentially sensitive information. Two high severity issues were found that should be remediated immediately, as well as several medium and low severity vulnerabilities.	David Seidl, VP for Information Tech & CIO	The vendor engaged a third party Qualified Security Assessor to validate that the found vulnerabilities have been corrected. Miami received a copy of the Attestation of Scan Compliance dated 12/3/2019 and the audit issue was closed 12/10/2019.

Attachment J

#### Internal Audit Barbara Jena **Open Internal Audit Issues**

Line	Audit Name And Date	Date Opened	Date Due	Risk Level	Division	Recommendation	Responsible Person	Management Response and Status and Percentage of Completion
1	<b>150.3</b> - Audit of Pledge Financial Accounting - 5/2017	5/26/2017	7/31/2020	High	Finance & Business Services	To increase reporting transparency, IACS recommends that Treasury Services work with University Advancement to prepare annual reconciliations between published financial reports and fundraising totals reported by University Advancement. Reconciliations should be prepared for both MU and MUF and address the following components: a. Revenue - gift revenue in the published financial reports to University Advancement's fundraising attainment (i.e., new pledges plus new outright gifts) in the fiscal year. b. Pledges receivable - pledges receivable in the published financial reports to University Advancement's pledges outstanding balance at fiscal year-end.	Bruce Guiot, Chief Investment Treasury Officer	In an 8/23/2019 status update, the Chief Investment Treasury Officer stated, "We have been successfully conducting weekly reconciliations between Advancement and Finance since June. We are preparing to replicate the process with monthly data." In further discussion, he added that the goal is to reconcile annually as recommended, but on a going-forward basis. As such, the earliest this could be accomplished would be in July 2020 for the FY 2020 fiscal year end. In a 11/4/2019 status update, the Chief Investment Treasury Officer stated, "We have begun conducting monthly reconciliations, but now need to create new reports that reflect changes that occur in subsequent periods so that we can achieve a year to date reconciliation." In a 1/22/2020 status update, the Chief Investment Treasury Officer stated, "While work is continuing, I have no changes to report since the last update."
2	<b>173.1</b> - Compliance with the Vulnerability Management Standard - 3/2019	3/12/2019	5/31/2020	High	IT Services	IACS recommends the Information Security team strengthen analysis and follow-up of cases where remediation is not taking place in accordance with the 30-day standard. Consequences of noncompliance should be re-evaluated to address problem areas.	John Virden, Asst VP Sec Comp Risk Mgt CISO	Management agrees with the auditor's recommendations. We acknowledge that there have been deficiencies in the following process, which will be addressed when the revised standard is rolled out. The vulnerability management standard will be revised by SCRM by the end of the 4th quarter of the fiscal year 2019. End users who receive the vulnerability report directly will be notified of the revised standard either through training and/or by email notification. In a 8/15/2019 update, management stated, "OpenVAS is being installed with a due date at the end of August. These changes will occur after the new scanning software is in place. This effort is on track for delivery as noted in the original management response." In a 11/7/2019 update, management stated that the new scanning software has been deployed in production, and reporting is scripted and automated. They are continuing to make operational improvements including remediation speed (within the 30-day standard).

90%

3

#### REPORT ON CASH AND INVESTMENTS Finance and Audit Committee Miami University February 20, 2020

#### Non-Endowment Fund

For the second fiscal quarter ending December 31, 2019, the non-endowment's estimated net-of-fees return excluding operating cash was +4.8%. Tier II Baseline Core Cash and Special Initiatives Fund preliminary returns were +0.5% and +0.1% respectively, while Tier III earned +6.0%. Tier III was led by public equities which collectively rose 10.2% in the quarter, followed by commodities, which rose 7.7%. The estimated return for the non-endowment's net-of-fees return excluding operating cash for the full calendar year is +13.4%.

At December 31<sup>st</sup>, the Operating Cash balance was about \$72.8 million, down from \$143.2 at the end of September. During the quarter, \$10 million was transferred from Operating Cash to Core Cash Tier II to rebalance against forecasted cash flow for the full fiscal year. Operating Cash earned an approximate 1.0% annualized yield on the average balance, in addition to a significant portion receiving earnings credit against bank fees.

	Fair Value	% of
Current Funds	(Millions)	Portfolio
Operating Cash (Tier I):		
Short-term Investments*	\$72,832,710	10.2%
Come Coole (Tion II):		
Core Cash (Tier II):		
Short-Term Bonds	\$86,695,257	12.2%
Special Initiatives	<u>\$49,145,702</u>	6.9%
Total Core Cash (Tier II):	\$135,840,959	19.0%
Long-Term Capital (Tier III):		
Equity Investments	\$269,173,820	37.7%
Debt Investments	\$103,923,202	14.6%
Hedge Funds	\$59,526,311	8.3%
Real Assets	\$45,935,270	6.4%
Other**	\$134,435	0.0%
Cash	<u>\$26,086,444</u>	3.7%
Total Long-Term Capital (Tier III)	\$504,779,482	70.8%
Total Current Fund Investments	\$713,453,151	100.0%

\*not included in performance report

\*\*includes Cintrifuse Syndicate Fund II

(Continued on next page)

#### REPORT ON CASH AND INVESTMENTS Finance and Audit Committee Miami University February 20, 2020

#### Endowment Pooled Investment Fund

The endowment's preliminary returns were +5.6% for the December quarter. This figure excludes updated values for private capital, which reports on a significant lag. The endowment benefited most from public equity's +10.4% return for the quarter, while fixed income rose only 0.9%. The preliminary return for the full calendar year is 15.3%

The Miami University Foundation Investment Committee conducted a teleconference on December 18, 2019 for an update on the Pooled Investment Fund's performance, a review on hedge funds and the portable alpha strategy, and a primer on private credit.

#### Bond Project Funds

There was little draw activity in the December quarter. As of December 31, 2019, the balance was as follows:

#### **Plant Funds**

Series 2017 Bond Project Fund \$1,026,841

<u>Attachments</u> Non-endowment Performance Summary as of 12/31/2019 MUF Performance Summary as of 12/31/2019 Strategic Investment

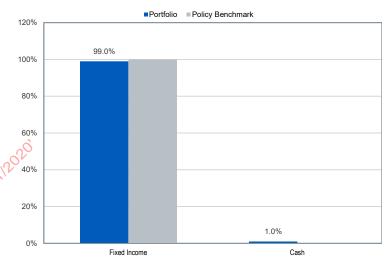
Group

# Miami University Baseline Tier II

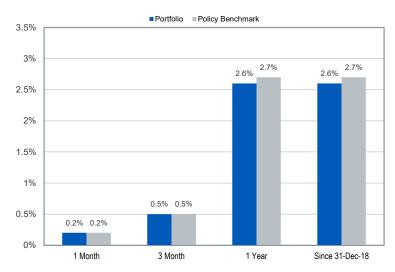
December 31, 2019

				1			
sset Class Benchmark	Market Value (\$ mill)	Portfolio (%)	1 Month	3 Month	Fiscal Year To Date	Calendar Year To Date	120%
I.S. Fixed Income	85.812	99.0%	0.2	0.5	1.1	2.7	12070
U.S. Fixed Income Policy Benchmark			0.2	0.6	1.1	2.9	4000/
otal Fixed Income	85.812	99.0%	0.2	0.5	1.1	2.7	100%
otal Cash, Accruals, and Pending Trades	0.883	1.0%	0.1	0.2	0.5	1.0	
liami University - Baseline Tier II Net of Sub-Mgr Fees)	86.695	100.0%	0.2	0.5	1.1	2.7	80%
liami University - Baseline Tier II Net of Sub-Mgr and Strategic Fees)	86.695	100.0%	0.2	0.5	1.1	2.6	60%
Total Portfolio Policy Benchmark Total Portfolio Policy Benchmark (Net of Fees)			0.2 0.2	0.6 0.5	1.1 1.1	2.9 2.7	12020
					ite	2.9 2.7 Her on W	20%
				Ŕ	mothy		
				edby			3.5%
			whiles	, and the second s			3%
		•	$Q_{0}$				2.5%
							2%

#### ASSET ALLOCATION<sup>1</sup>



## PORTFOLIO PERFORMANCE<sup>2</sup>



1) Asset Allocations are calculated from manager risk exposures and may result in differences from the allocations in the investment performance table above.

2) Returns are annualized except for periods of less than one year and are net of both Strategic and sub-manager fees.

-Strategic reports performance on a "trade date" basis. Market values and returns are (1) subject to revisions due to updated valuations of the

underlying investments and (2) based on preliminary information available at the time of this report. -Please refer to the footnotes in your monthly report for detail on the returns calculations, benchmarks and other important information.

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Past performance is not a guarantee of future results

Printed: 01/10/2020

Attachment L

Overall Page 186 of 190

				Botoo of	Return (%)						
Asset Class Benchmark	Market Value (\$ mill)	Portfolio (%)	1 Month	3 Month		Calendar Year To Date	120%		ASSET ALLC     Portfolio = Policy		
U.S. Fixed Income Total Fixed Income	49.146 49.146	100.0% 100.0%	0.0 0.0	0.1 0.1	1.2 1.2	5.0 5.0	100%		100.0%		
<i>l</i> iami University Special Initiatives Fund Net of Sub-Mgr Fees)	49.146	100.0%	0.0	0.1	1.2	5.0					
Aiami University Special Initiatives Fund Net of Sub-Mgr and Strategic Fees) Total Portfolio Policy Benchmark	49.146	100.0%	0.0	0.1	1.1	4.9	80%				
Fotal Fottiono Folicy Benchmark			0.0	0.1	1.1	4.9 4.9	60%				
						12112	40%				
					. 0	let on	20%				
					and The		0%		Fixed	Income	
				Ŕ	nott			PC		RFORMANCE	2
				600			8%		Portfolio Poli	cy Benchmark	
			108	de			7%				
			Oown				6%				5.9% 5.9%
			•			:	5%			4.9% 4.9%	_
							4%				_
						:	3%				_
						:	2%				
							1%				
							0.0%	0.0%	0.1% 0.1%		
							0% 1 Mor		3 Month	1 Year	Since 19-Sep-

Asset Allocations are calculated from manager risk exposures and may result in differences from the allocations in the investment performance table above.
 Returns are annualized except for periods of less than one year and are net of both Strategic and sub-manager fees.
 -Strategic reports performance on a "trade date" basis. Market values and returns are (1) subject to revisions due to updated valuations of the

underlying investments and (2) based on preliminary information available at the time of this report. -Please refer to the footnotes in your monthly report for detail on the returns calculations, benchmarks and other important information.

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Past performance is not a guarantee of future results.

Attachment L

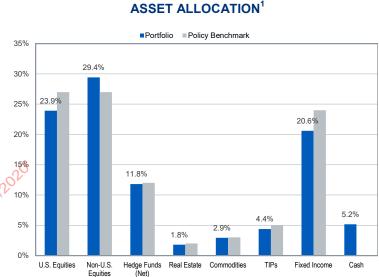
Overall Page 187 of 190



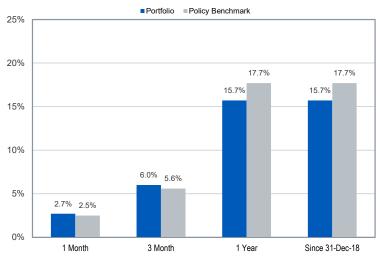
#### Miami University Long-Term Capital Tier III

December 31, 2019

			Rates of Return (%)				
Asset Class Benchmark	Market Value (\$ mill)	Portfolio (%)	1 Month	3 Month	Fiscal Year To Date	Calendar Year To Date	
U.S. Equity	98.754	19.6%	3.2	9.8	10.6	30.6	
U.S. Equity Policy Benchmark			2.9	9.1	10.4	31.0	
Non-U.S. Equity	128.824	25.5%	5.1	10.9	7.7	21.7	
Non-U.S. Equity Policy Benchmark			4.7	9.5	7.4	21.4	
Global Equity	41.596	8.2%	3.6	9.2	9.6	-	
Global Equity Benchmark			3.2	8.7	9.1	-	
Total Equity	269.174	53.3%	4.2	10.2	9.1	25.8	
Hedge Funds (Net Exposure)	59.526	11.8%	0.7	1.7	1.6	5.1	
Hedge Funds Policy Benchmark			0.8	1.9	3.1	5.4	
Total Alternatives	59.526	11.8%	0.7	1.7	1.6	5.1	
Real Estate - IRR	9.054	1.8%	-	0.0	1.1	5.1 	
Real Estate Policy Benchmark - IRR			-	0.0	0.9	2	
Commodities	14.755	2.9%	6.4	7.7	3.6	- ^ `	
Commodities Policy Benchmark			7.0	8.3	3.8	5	
TIPS	22.125	4.4%	0.4	0.7	1.3	<u>x</u> -	
TIPS Policy Benchmark			0.7	1.0	1.6	10 -	
Total Real Assets	45.935	9.1%	2.3	2.9	1.9	-	
U.S. Fixed Income	103.923	20.6%	0.6	0.9		6.4	
U.S. Fixed Income Policy Benchmark			0.2	0.4	2.6	9.3	
Total Fixed Income	103.923	20.6%	0.6	0.9	1.7	6.4	
Total Cash, Accruals, and Pending Trades	26.086	5.2%	0.1	0.2	0.5	1.0	
Miami University Long-Term Capital Tier III (Net of Sub-Mgr Fees)	504.645	100.0%	2.7	6.1	5.6	16.0	
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
Miami University Long-Term Capital Tier III (Net of Sub-Mgr and Strategic Fees)	504.645	100.0%	2.7	6.0	5.5	15.7	
Total Portfolio Policy Benchmark			2.5	5.7	6.0	17.9	
Total Portfolio Policy Benchmark (Net of Fees)			2.5	5.6	6.0	17.7	



#### **PORTFOLIO PERFORMANCE<sup>2</sup>**



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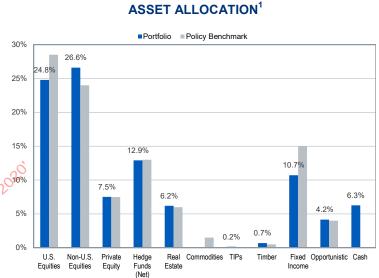
Overall Page 188 of 190



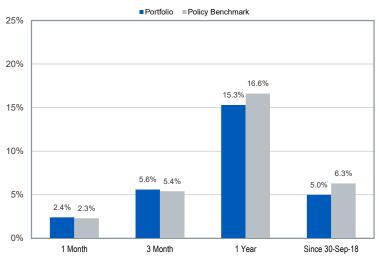
#### **Miami University Pooled Investment Fund**

December 31, 2019

			Rates of Return (%)				
Asset Class Benchmark	Market Value (\$ mill)	Total Portfolio (%)	1 Month	3 Month	Fiscal Year To Date	Calendar Year To Date	
U.S. Equity U.S. Equity Policy Benchmark	117.214	20.8%	<b>3.2</b> 2.9	<b>9.7</b> 9.1	<b>10.3</b> <i>10.4</i>	<b>29.7</b> 31.0	
Non-U.S. Equity Policy Benchmark	126.626	22.5%	5.9 5.4	<b>11.4</b> 10.1	7.6 7.3	<b>21.5</b> 20.7	
Global Equity Global Equity Benchmark	45.601	8.1%	<b>3.6</b> 3.2	<b>9.2</b> 8.7	<b>9.6</b> 9.1	<b>27.6</b> 26.9	
Total Equity	289.441	51.4%	4.4	10.4	9.0	25.8	
Private Equity - IRR Private Equity Policy Benchmark - IRR	42.302	7.5%	-	-	-	<b>6.0</b> 10.0	
Hedge Funds (Net Exposure) Hedge Funds Policy Benchmark	72.724	12.9%	<b>0.5</b> 0.8	<b>1.6</b> 1.9	<b>0.8</b> 3.1	<b>4.4</b> 5.4	
Total Alternatives	115.026	20.4%	0.3	0.8	(0.1)	5.0	
Timber Timber Policy Benchmark	3.906	0.7%	-	<b>0.0</b> 0.0	<b>(1.5)</b> 0.1	0.6 (0.7)	
Real Estate - IRR Real Estate Policy Benchmark - IRR	34.853	6.2%	-	-	-	<b>8.8</b> 3.1	
Total Real Assets	38.759	6.9%	-	0.0	0.1	7.6	
U.S. Fixed Income U.S. Fixed Income Policy Benchmark	61.201	10.9%	<b>0.6</b> 0.2	<b>0.9</b> 0.5	2.6	<b>5.5</b> 9.4	
Total Fixed Income	61.201	10.9%	0.6	0.9	1.8	5.5	
<b>Opportunistic</b> Opportunistic Policy Benchmark	23.406	4.2%	<b>0.0</b> 0.0	0.0	<b>1.1</b> 1.1	<b>4.3</b> 4.3	
Total Opportunistic	23.406	4.2%	0.0	0.0	1.1	4.3	
Total Cash, Accruals, and Pending Trades	35.324	6.3%	0.100	0.2	0.5	1.0	
		4	0~				
Miami University Pooled Investment Fund (Net of Sub-Mgr Fees)	563.157	100.0%	2.5	5.6	5.0	15.6	
Miami University Pooled Investment Fund (Net of Sub-Mgr and Strategic Fees)	563.157	100.0%	2.4	5.6	4.8	15.3	
Total Combined Portfolio Policy Benchmark			2.4	5.4	5.7	16.9	
Total Combined Portfolio Policy Benchmark (Net of Fees)			2.3	5.4	5.6	16.6	



#### **PORTFOLIO PERFORMANCE<sup>2</sup>**



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Attachment L

Overall Page 189 of 190

MU-Lean Project Status Tota	ls			Completed Projects					
Division	Active	Completed	Future	Total	Cost Avoidance	Cost Reduction	<b>Revenue Generated</b>	Total	
Finance and Business Services*	110	1474	8	1592	\$43,722,849	\$29,087,177	\$8,952,642	\$81,762,668	
President+Intercollegiate Athletics+C	4	7	0	11	\$530,371	\$233,500	\$1,015	\$764,886	
Advancement	6	27	0	33	\$156,732	\$226,290	\$4,223,000	\$4,606,022	
Enrollment	9	44	0	53	\$513,758	\$36,803	\$37,705	\$588,266	
Student Affairs	4	5	0	9	\$58,569	\$0	\$0	\$58,569	
Information Technology Services	1	20	0	21	\$458,948	\$0	\$4,180	\$463,128	
Academic Affairs	4	34	1	39	\$2,530,454	\$0	\$402,116	\$2,932,570	
Lean Project Total - MU	138	1611	9	1,758	\$47,971,681	\$29,583,770	\$13,620,658	\$91,176,109	

\* no longer track Procurement realized as a separate category

MU-Lean Project Changes si	nce 11-01	L-19 report		Newly Completed Projects since 11-01-19 report				
	Newly	Newly	Newly		New	New	New	New
Division	Active	Completed	Future	New Total	Cost Avoidance	<b>Cost Reduction</b>	<b>Revenue Generated</b>	Total
Finance and Business Services*	-6	23	1	18	\$195,703	\$94 <i>,</i> 896	\$30,993	\$321,592
President+Intercollegiate Athletics	0	0	0	0	\$0	\$0	\$0	\$0
Advancement	0	-1	0	-1	\$0	\$0	\$0	\$0
Enrollment	4	0	0	4	\$12,125	\$0	\$0	\$12,125
Student Affairs	0	0	0	0	\$0	\$0	\$0	\$0
Information Technology Services	0	0	0	0	\$0	\$0	\$0	\$0
Academic Affairs	-11	0	0	-11	\$11,400	\$0	\$0	\$11,400
Lean Project Total - MU	-13	22	1	10	\$219,228	\$94,896	\$30,993	\$345,117

\* no longer track Procurement realized as a separate category