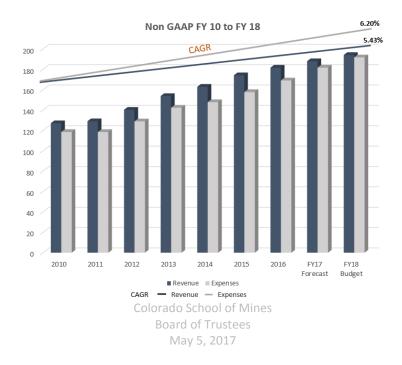


TO:	Board of Trustees
FROM:	Kirsten M. Volpi Executive Vice President/COO/CFO/Treasurer
DATE:	May 5, 2017
SUBJECT:	Fiscal Year 2018 Budget

Outlook

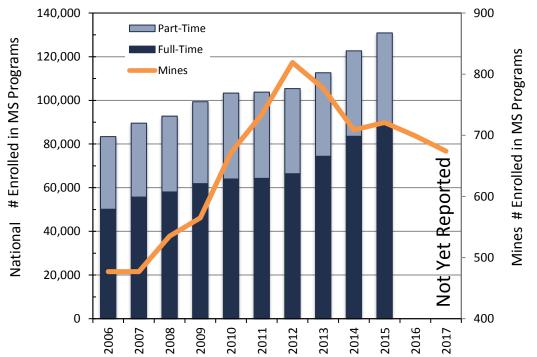
As we look to the fiscal year 2018 budget (and beyond), we (among many universities across the country) find ourselves at an inflection point; a crossroads where the limits of our traditional educational and economic model is running up against both our practical and aspirational goals. It is vital that we proactively position ourselves for a future in a highly competitive higher-education market. The key will be striking a balance between financial sustainability and our institutional aspirations while allowing us to produce additional revenue streams to support our core role and mission.

On a national basis, decreasing state and federal support, tuition increases, large student debt, low family income and the growing discount rate have and will likely continue to negatively impact the traditional higher education business model. At Mines, we have seen a slowing of revenue growth over the past few years primarily due to the flattening of our undergraduate enrollment, moderating of our tuition increases, a steady decline in our graduate enrollment, and a leveling off of other revenue (e.g., externally sponsored research). During this time, we have experienced operating expense growth that has been out pacing our operating revenue growth.



Complicating this picture, we have experienced significant difficulty in predicting enrollment and enrollment trends. The decline in the energy and commodities market that emerged several years ago, the geopolitical matters that surround our international prospective and current students, and our continued decline in graduate enrollment – that is counter to national trends – are placing significant uncertainty in our ability to predict future enrollment. Nationally, undergraduate enrollment is shifting to larger, more comprehensive universities as they pursue a business model that is based on enrollment growth. As a result, smaller to mid-sized universities are experiencing enrollment declines.

Compounding this trend, nationally universities are focusing on, and growing their STEM programming. Thus, we are seeing significant, and rising competition for our traditional, STEM-focused undergraduate students. For Fall 2016 and Fall 2017, we have had to admit a higher percentage of undergraduate students in order to achieve our incoming class. At the graduate level, we have seen enrollment declines over the past several years. These declines are most pronounced at the master's degree level. Over the past decade, however, Masters enrollment nationally has increased by over 30%. With our STEM specialization, we should be keeping pace with if not out-performing the higher education market in attracting and retaining these students. We are not. Below is a chart reflecting national growth (prepared by ASEE) in M.S. compared to Mines growth.



With the downturn in the energy and commodities market, we have experienced a softening in our support from private industry; continuing education, research projects, and philanthropic support. While this year we are seeing research awards from the federal government rise, that future funding is uncertain. We have as a consequence of these changes seen significant changes in the diversity of the sources of external support for our research endeavors. Five years ago as much as 50% of our external research support was derived from our private industry collaborators. Today that percentage of support has dropped to 25%, leaving our research enterprise more-and-more dependent on highly uncertain federal funding.

At the state level, clouds are also forming on the horizon. For the past few years, state revenue for higher education has been relatively stable, and in fact we have experienced slight increases in state

Colorado School of Mines Board of Trustees May 5, 2017 support. The state however is projecting a \$124 million statewide loss this fiscal year and a possible loss next year. While the 2018 state budget that was passed by the Joint Budget Committee is more optimistic, we are watchful to upcoming forecasts and the resultant action for higher education funding.

But even with rising competition and the uncertainties in our environment, given our reputation, strong outcomes and distinction, we are well poised to strengthen our business model through enhancing and augmenting our core mission. Through innovations, unique student experiences, distinct academic programs, operational excellence, and expansion of course delivery modes, we can advance Mines' mission while creating long term financial sustainability. Many of these initiatives are underway and will continue in fiscal year 2018 and beyond. Some are reflected below:

- Innovation: pedagogical redesign/enhancement through the Trefny Institute for Innovation; the new center for Entrepreneurship and Innovation;
- Unique Student Experiences: Freshmen orientation Oredigger Camp; planning the next phase of the housing master plan; creation of a professional development program;
- Distinct Academic and Research Programs: the new Engineering, Design, and Society Division; the new BSE degree; new certificate programs for Computer Science, Civil and Environmental Engineering, Electrical Engineering, Mechanical Engineering, Space Systems, Sustainable Energy Systems, and Additive Manufacturing; development of the theme based institutes; focus on undergraduate research; strengthening the first year honors program;
- Operational Excellence: business process re-engineering; technology enhancements; energy management; enhancing an engaged campus; and
- Expansion of course delivery modes: developing on-line delivery models.

Paying attention to where we have been, we look forward to Mines strengths and opportunities to become a stronger, more vital university.

Fiscal Year 2018 Budget

Even with many opportunities and initiatives in front of us, for this years' budget, we are including a larger amount of cushion than we have in years past. A fair number of our new initiatives are just in the development phase. This along with the uncertainties in our current revenue structure; enrollment (particularly non-resident, both US and international), federal and state funding, and private support we felt it prudent to hedge against any needed mid-course correction.

We narrowed our budget process this year and focused on strategic initiatives that included revenue growth, program distinction and operational excellence. We also have put many initiatives in place that are projected to grow revenue and/or mitigate growth in expenses: incentives for Summer and Graduate enrollment growth; a new retirement plan; flexibility in the use of our state fee for service funds; position (personnel) management; deep dives in expense categories; energy savings; etc.

The budget is prepared and outlined below in three core categories;

1. Operating – funds that can be spent on any purpose for the university - the main budget;

- 2. Designated funds that can only get spent on certain purposes; primarily student fees and faculty start up; and
- 3. Restricted funds that can only be spent for the required purpose; primarily sponsored research and gifts.

Comprising all funds noted above, total revenue is budgeted to be \$312.10 million and expenses of \$303.27 million with \$2.49 in reserve set asides to net \$6.35 million.

Operating

Revenue projections: Operating revenue is budgeted to increase 4.4% or \$8.15 million for a total of \$195.09 million.

We are projecting undergraduate **enrollment** to be up slightly, which includes a planned increase in freshman enrollment of 100 new students. Consistent with our graduate enrollment trend, we are projecting a decline in graduate enrollment (we anticipate many of our growth initiatives and incentives to have impact starting in fiscal year 2019). Tuition is budgeted to increase \$5.9 million resulting in a total of \$135.30 million.

The **tuition rate increase** proposed for this year is 3% for resident students and 3.5% for non-resident students. This year, we performed a tuition elasticity study (last performed in 2010). Through this study, we received confirmation that assuming no change in discount policy, it is predicted that our application and enrollment interest would remain stable, if not increase slightly, at a 3% increase in tuition.

Housing and dining revenue is budgeted to be up 3% to 5% or \$420,000 consisting of slight increases in housing and board rates. Also included is housing for an additional 100 freshman. Our housing and board rates are comparable to the other universities in the state, especially in the front range.

State funding is budgeted to be up 4.2% or \$850,000 for a total of \$21 million. **Research funding** including the indirect cost recovery derived from research spending is planned to be flat.

All **other revenue** streams are projected to remain flat with the exception of a new relationship with Nazarbayev University. This three year contract will bring in \$5.6 million to the university; much of which will pay for the specified deliverables, but a portion of the funding will be allocated to the unrestricted resources of Mines.

Expense projections:

Operating expenses are projected to increase 3.8% or \$7.05 million from the ongoing budget for a total of \$190.84 million. Labor (salaries and benefits) and student support (undergraduate financial aid and graduate support) are the largest two expense items and contain the largest increases.

Labor includes a 2.5% salary increase for all employees (the classified increase is mandated by the state). We are projecting a 1.5% increase to our faculty employee benefits and 0.4% increase to our classified employee benefits. Total labor is projected to be \$102.5 million. To account for the natural churn of our employee base, we have traditionally budgeted a \$3 million salary savings. This year, we are increasing that amount to \$4 million as our actual salary savings over the past five years has been near \$8 million each year.

Colorado School of Mines Board of Trustees May 5, 2017 We are projecting no new FTEs in this budget year. Over the past five years, we have added over 20 new faculty and staff each year in order to support students, our facilities and our operations. From 2010 to today, our academic and research headcount increased 28% and our administrative headcount increased 25% during the same time, enrollment increased 21%.

Student to faculty ratio remains a little under 18:1 and student to administrator ratio remains a little over 10:1. The student to faculty ratio is comparable to our peers and the student to administrator ratio is higher than our peers demonstrating that we are administratively leaner than our peers.

We are in the process of a Total Compensation Assessment. This assessment is analyzing our faculty (academic and administrative) salaries and benefits and the relative alignment (or miss-alignment) with the market. Through this assessment we will develop our total compensation strategy which will set the framework for compensation decisions. The results of this assessment will likely yield a financial impact but it is too soon to determine.

Student support, both undergraduate financial aid and graduate support, is projected to increase \$3 million totaling \$35.7 million. The increase is primarily for undergraduate financial aid that is provided to incoming and continuing students. With this increase, our total institutional support to undergraduate students will be \$24 million which represents an 18% average discount rate; 14% for resident students and 24% for non-resident students. Our financial aid strategy has remained relatively consistent since 2010.

Other expense increases include:

- Increase to operate CoorsTek and the new Heating Plant which are coming on-line this year. The Heating Plant has some one time, year one costs but beginning in year two, the operations of the Plant (versus purchased steam from MillerCoors) will provide financial savings annually;
- Increase to support the CSM Alumni Association;
- Required increases to Information Technology licenses and maintenance; and
- Increase to funds provided to new faculty in order for them to start up their laboratories.

Reserves:

This year we are setting aside \$2 million in reserves for an enrollment reserve as well as operating reserve. This is a slight reduction in reserve set asides from prior years.

From the Innovation reserve fund, we are providing \$300,000 of seed funding for initiatives that are focused on enrollment growth primarily for certificate programs with several of those being delivered on-line.

Designated

These funds primarily represent the revenue and use of student fees as well as the allocation and use of faculty startup funds. Revenue is budgeted at \$29.92 million and expenses are budgeted at \$26.96 million.

Restricted

Represents sponsored research funds as well as distributions from and use of the endowment and current gifts. Revenue is budgeted at \$87.09 million and expenses are budgeted at \$85.47 million.

Colorado School of Mines Board of Trustees May 5, 2017 The attached PowerPoint provides further detail and information regarding the fiscal year 2018 budget.

Resolution

The Board of Trustees reviewed the proposed budget for the academic year 2017 – 2018 and approves the Fiscal Year 2018 Budget consisting of:

- Total revenue of \$312.10 million
- Total expenses of \$303.27 million
- Total addition of reserves of \$2.54 million
- 3.0% increase for resident undergraduate and graduate rates;
- 3.5% increase for non-resident undergraduate and graduate rates;
- Increase in Housing of and Room and Board charges; and
- Increases in fees and charges, two new lab fees and a freshmen orientation fee.



FISCAL YEAR 2018 BUDGET

BOARD OF TRUSTEES MEETING MAY 5, 2017

FY2018 BUDGET CONSIDERATIONS

Pressure on Revenue

- Tuition
- State
- Sponsored/Philanthropic
- Other
- Focus to Manage Costs
- Narrowed Budget Process Focused on Strategic Initiatives
 - Revenue Growth
 - Program Distinction
 - Operational Excellence
- Financial Aid and Personnel Highest Cost Increases

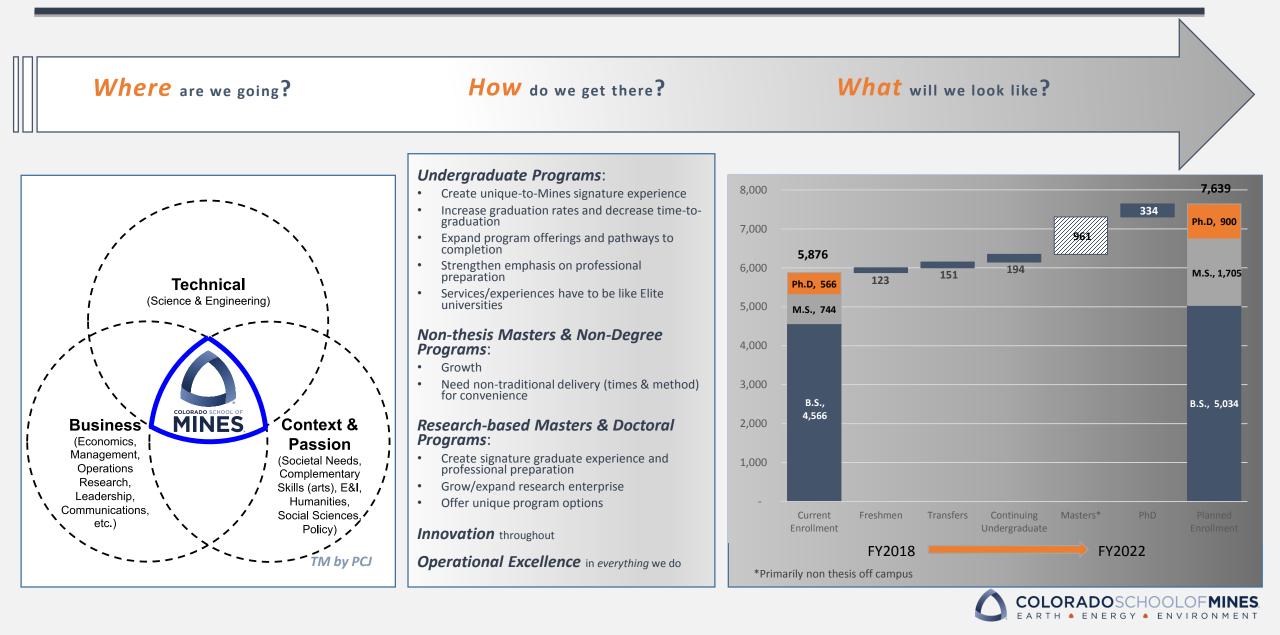


All Funds Revenue Stream	Challenges to growth	Opportunities for growth
Tuition and Fees	 Tuition rate at market capacity Enrollment variability Undergraduate non-resident Graduate trend 	 Grow enrollment Freshman +100 Graduate – incentives in place Change statutory R/NR mix
State Support	 Potential cuts due to state budget challenges 	
Housing and Dining	Housing margin tightCompetitive housing options	 Develop plan to increase housing rates
Research	 Uncertainty in federal funding Decline in private funding 	 Diversification Focus on private industry Create Institutes Continue to hire productive/leading faculty
Gifts	Decline due to energy marketLow return environment	Upcoming campaignDiversification
Other Revenue	• Minimal	 Expansion of continuing education International relationships (i.e. NU)



All Funds Expense category	Challenges to cost structure	Opportunities to manage costs
Personnel (salaries and benefits)	 Classified mandate from State Pressure from academic faculty History of paying 100% health/dental benefits to faculty 	 New retirement plan Position abolishments Hiring freezes Compensation assessment
UG Financial Aid and GR Support	• Discount rate is low for an elite university	• HB17-1140 flexibility
Debt	 Highly leveraged Rating stability Achievement of plan will necessitate capital investment (debt) 	 Low rate environment (as of now)
Operating Expenses	 Minimal base changes in past decade 	Opt out of State Risk ManagementAcross the board cuts
Operations and Maintenance	Costs of new facilities	 Continual cost management; energy and operations
Information Technology	Enhancements in innovationsProcess streamlining	
Renovation and Maintenance	Aging facilities	Cut costs
CSMF Funding	Pressure on CSMF budget	
Library	Pressure to provide more funding	

Advancing Mines.....Taking us to the next level



Revenue

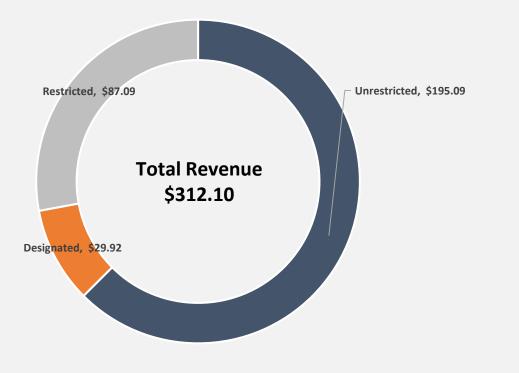


Budget – All Funds Budget 2018 - Proposed

in millions	Unrestricted Operating	Designated	Restricted	Total
Revenue	\$ 195.09	\$ 29.92	\$ 87.09	\$ 312.10
Expense	190.84	26.96	85.47	303.27
Net Activity before Reserves	\$ 4.26	\$ 2.96	\$ 1.69	\$ 8.84
Addition to Reserves	2.61	0.00	(0.11)	2.49
Net Activity	\$ 1.65	\$ 2.96	\$ 1.74	\$ 6.35



All Funds Budget Proposal



■ Tuition & Fees ■ Research ■ Gifts State Support ■ Auxiliaries ■ Other





All Funds

								1		
		Unrest	ricted	Desig	nated	Restri	cted	Total Funds		
Line		FY17 Base Budget	FY18 Budget	FY17 Forecast	FY18 Budget	FY17 Forecast	FY18 Budget	FY17 Forecast	FY18 Budget	
	REVENUES									
	Tuition and Fees									
1	Undergraduate Resident	41.86	43.91					41.86	43.91	
2	Undergraduate Resident COF	6.19	6.32					6.19	6.32	
з	Undergraduate NonResident	62.42	66.38					62.42	66.38	
4	Graduate Resident	8.95	8.86					8.95	8.86	
5	Graduate NonResident	16.16	16.16					16.16	16.16	
6	Continuing Education	1.37	1.28					1.37	1.28	
7	Fees	_	-	16.59	18.14			16.59	18.14	
-	Subtotal-Tuition and Fees	136.97	142.90	16.59	18.14	-	-	153.55	161.04	
	Grants and Contracts			10,00						
9	Federal		-			40.67	40.67	40.67	40.67	
10	Private		-	0.57	0.57	17.83	17.83	18.40	18.40	
11	State		_	0.07	0.07	4.99	4.98	4.99	4.98	
12	Indirect Cost Recoveries	11.89	11.86			-	-	11.89	11.86	
-	Subtotal-Grants and Contracts	11.89	11.86	0.57	0.57	63.49	63.48	75.95	75.90	
	Investment Income	0.95	0.95	0.05	0.05	0.02	0.02	1.02	1.02	
-	Other Income	0.00	0.00	0.00	0.00	0.02	0.02	1.02	1.02	
	Fee For Service / State Support	14.44	15.16	2.24	2.52			16.69	17.68	
	Auxiliaries	18.88	19.80	5.22	5.22			24.10	25.02	
	Other	2.42	3.02	2.31	3.43	0.06	0.06	4.79	6.51	
	Gift Revenue from the Mines Fund	1.40		2.31	3.43	23.53	23.53		24.93	
		1.40	1.40	-	-	23.55	23.55	24.93	24.93	
	One-time savings from prior year	-	-	-	-	00.50	00.50	-	-	
-	Subtotal-Other Income	37.14	39.38	9.77	11.16	23.59	23.59	70.50	74.14	
-	TOTAL REVENUES	186.95	195.09	26.97	29.92	87.11	87.09	301.02	312.10	
	EXPENDITURES									
		67.24	68.52	0.82	0.80	7.93	7.97	75.99	77.29	
	Instruction									
	Research	4.87	4.58	0.45	1.92	58.88	58.90	64.20	65.41	
	Public Service	10.10	-	0.14	0.14	0.54	0.22	0.68	0.36	
	Academic Support	19.12	20.27	1.72	0.99	1.42	1.43	22.25	22.68	
	Student Services	6.36	6.68	0.57	0.57	1.10	1.10	8.03	8.34	
	Institutional Support	23.03	24.02	0.27	0.28	0.57	0.57	23.87	24.86	
	Operation & Maintenance of Plant	19.17	20.00	1.22	1.21	3.90	4.38	24.29	25.59	
29	Scholarships & Fellowships	21.00	23.98	-	-	10.90	10.90	31.90	34.89	
30	Auxiliaries	19.47	19.56	20.33	21.06			39.80	40.62	
31	Capital Ren and Cont Main	3.53	3.23	-	-			3.53	3.23	
								-	-	
32	TOTAL EXPENDITURES	183.78	190.84	25.50	26.96	85.25	85.47	294.53	303.27	
			4.00			4.00	1.00			
	NET BEFORE TRANSFERS	3.16	4.26	1.47	2.96	1.86	1.62	<u>6.49</u> 0.33	8.84	
	Operating Transfers	4.00	-	-	-	0.33	(0.11)		(0.11)	
	Capital Renewal and Replacement	1.00	1.00					1.00	-	
	Operating Reserve	1.00	1.60			-	-	1.00	1.60	
	Innovation Reserve	0.80	1.00					0.80	1.00	
	Debt Retirement Reserves		-					-	-	
	CO Scholars Reserve	0.15	-					0.15	-	
40	Roll forward for one-time		-					-	-	
								-	-	
41	NET ACTIVITY	0.21	1.65	1.47	2.96	1.53	1.74	3.21	6.35	

Unrestricted Revenue





Unrestricted

				11
	FY 2017 Ongoing			11
in millions	Budget	FY 2018 Changes	FY 2018 Budget	
Revenues				
Tuition	\$129.40	\$5.91	\$135.30	
State Funding	20.64	0.85	21.48	
Indirect Cost Recovery	11.89	(0.03)	11.86	
Auxiliary Revenue	20.25	0.82	21.07	
Other Revenue	4.77	0.60	5.37	
Total Revenues	186.95	\$8.15	195.09	
Expenditures				
Labor - Salaries and Benefits	99.83	3.37	103.20	
Adjunct	1.29	0.00	1.29	
Salary Savings	(3.00)	(1.00)	(4.00)	
New Faculty Startup	5.90	0.32	6.22	
Undergraduate Financial Aid	21.00	2.99	23.98	
Graduate Support	11.72	0.02	11.75	
Other Operating	9.07	0.79	9.86	
Debt	9.28	(0.01)	9.27	
Operations and Maintenance of Plant	7.19	0.32	7.51	
Housing and Dining Operating	8.02	(0.01)	8.01	
Information Technology Operating	3.20	0.25	3.45	
Capital Renovation and Controlled Maintenance	3.53	(0.30)	3.23	
Indirect Cost Return Distribution	2.87	-	2.87	
CSMF Development Fee and CSMAA support	2.01	0.18	2.19	
Library	1.87	0.14	2.01	
Total Expenditures	183.78	7.05	190.84	
Reserve Additions				
Capital Reserve	1.00	(1.00)	-	
Operating Reserve	1.00	0.60	1.60	
Innovation Reserve	0.80	(0.80)	-	
SB003 Reserve	0.15	(0.15)	-	
Enrollment Reserve	0.00	1.00	1.00	
Net Operating Activity	\$0.21	\$1.44	\$1.65	

Tuition Revenue – Tuition Elasticity Study

- Overall, enrollment interest should remain stable at a 3% increase in tuition
 - This budget proposes a 3% rate increase for resident students and 3.5% increase for non-resident students
- Student Expectations are changing
 - 90% believe the will/should receive a merit scholarship
 - 50% believe they will receive need based aid
 - 40% anticipate obtaining a student loan
- Mines has established a well known reputation for excellence in engineering
 - Prospective students are drawn to the successful outcomes including job placement and practical experience opportunities
 - There is an opportunity to enhance the perceptions of an active student life with many opportunities to get involved
- Opportunities to expand interest if students are made aware of existing programs and facilities:
 - Challenging honors program
 - New/updated residence halls
 - The fact that Mines has the largest chapter of the Society for Women Engineers (for female students)
- Opportunities to create programs where students show interest (many from First Generation or underrepresented populations):
 - Innovation and Entrepreneurship minor
 - Humanitarian Engineering major
 - Biology major



MANDATORY FEES

Fee	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18 *	2018-19 and Beyond
Academic Construction	275.00	275.00	275.00	275.00	275.00	275.00	Needs Addressing
Associated Students	94.10	94.10	100.00	100.00	101.17	68.38	TBD
Athletics	57.00	58.09	59.69	59.69	60.39	77.00	Needs Addressing
Health Services	86.00	87.63	90.00	90.00	95.22	110.22	TBD
Intermodal	48.50	48.50	48.50	48.50	48.50	49.00	TBD
Recreation Center	152.00	154.89	159.14	159.14	161.01	193.80	TBD
Student Services	259.50	264.43	271.70	271.70	274.69	274.69	TBD
Technology	60.00	60.00	60.00	60.00	60.00	60.00	Needs Addressing
Semester Total	1,032.10	1,042.64	1,064.03	1,064.03	1,075.98	1,108.09	
% Change	10.44%	1.02%	2.05%	0.00%	1.12%	2.98%	
Student Health Plan <i>(annual)</i> ⁺	1,534.00	1,596.00	1,888.00	1,600.00	1,740.00	1,990.00	TBD

*Proposed

FY 2007-08 to FY 2017-18 the total compound annual growth rate (CAGR) is 5.07% including the academic construction fee and 3.14% without. +Mines student participation in the Student Health Plan is 1,635 students or 28%.



Tuition Revenue – Cost of Attendance

	(CSM Unde	ergraduat	e Cost of	Attenda	nce- <i>Reside</i>	ent			
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Tuition 3% increase	13,590	14,400	14,790	15,225	15,690	16,161	16,646	17,145	17,659	18,542
Mandatory Fees	2,064	2,085	2,128	2,128	2,152	2,216	2,276	2,337	2,400	2,465
Room and Board	9,922	10,103	10,484	11,008	11,477	11,897	13,089	13,993	14,469	14,963
Books and Supplies	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Personal Expense	1,125	1,215	1,215	1,215	1,215	1,215	1,215	1,215	1,215	1,215
Transportation Expense	1,300	1,300	1,300	650	650	650	650	650	650	650
Total Cost of Attendance	29,501	30,603	31,417	31,726	32,684	33,638	35,375	36,840	37,894	39,335
% Increase	7.77%	3.74%	2.66%	0.98%	3.02%	2.92%	5.16%	4.14%	2.86%	3.80%
CPI %	1.94%	2.77%	2.20%	1.40%	1.18%	2.80%				

	CS	M Underg	graduate (Cost of At	tendance	-Non Resi	dent			
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Tuition 3.5% increase	28,620	30,330	31,470	32,700	34,020	35,211	36,267	37,355	38,476	40,399
Mandatory Fees	2,064	2,085	2,128	2,128	2,152	2,216	2,276	2,337	2,400	2,465
Room and Board	9,922	10,103	10,484	11,008	11,477	11,897	13,089	13,993	14,469	14,963
Books and Supplies	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Personal Expense	1,215	1,215	1,215	1,215	1,215	1,215	1,215	1,215	1,215	1,215
Transportation Expense	1,300	1,300	1,300	650	650	650	650	650	650	650
Total Cost of Attendance	44,531	46,533	48,097	49,201	51,014	52,688	54,997	57,050	58,710	61,193
% Increase	5.88%	4.50%	3.36%	2.30%	3.68%	3.28%	4.38%	3.73%	2.91%	4.23%
CPI %	1.94%	2.77%	2.20%	1.40%	1.18%	2.80%				

New Student Fees in FY18:

- Introduction to Brewing Science Course Fee \$70: The fee will help offset the expenses of the laboratory portion of this course where students malt their own grain, brew beer, and analyze the final product. Students will be positively impacted through the ability to apply brewing, malting and analyzation skills in real time.
- Microcomputer Architecture and Interfacing Course Fee \$100: The fee will fund the purchase of a custom designed printed circuit board, electronic parts for that board, and a collection of tools for each student enrolled in the course. Students will be positively impacted through the ability to develop their own printed circuit board and the exposure to up-to-date technologies and fabrication techniques.
- Oredigger Camp Fee \$75: The fee will go towards the new orientation program being offered this summer that is geared towards engaging incoming freshmen through leadership, engineering, and adventure workshops at an offsite location.



	Total Cost of Attendance																			
	Geo	orgia Tech	RPI					WPI	Lehigh		Carnegie-		C	SU - Eng.	CU	Boulder -				
		FY18		FY18		FY18	Cal-Berk FY18			FY18	FY18		Mellon FY18		FY18		Eng. FY18*		Mines FY18	
Resident on Campus	\$	69,109	\$	28,096	\$	70,132	\$	34,400	\$	65,046	\$	64,580	\$	70,094	\$	30,030	\$	31,199	\$	33,638
Non Resident on Campus	\$	69,109	\$	48,894	\$	70,132	\$	62,414	\$	64,046	\$	64,580	\$	70,094	\$	48,238	\$	54,929	\$	52,688

*As presented to the CU Board of Regents. Official 2017-2018 rates will be published on May 1, 2017.

	Tuition																			
	Stanford			orgia Tech		RPI				WPI Lehigh		Carnegie-		C	SU - Eng.	CU Boulder -				
		FY18		FY18		FY18	Cal-	Berk FY18		FY18		FY18	Me	llon FY18		FY18	En	g. FY18*	Mii	nes FY18
Resident (15 hours)	\$	48,987	\$	10,106	\$	51,000	\$	14,068	\$	47,988	\$	50,840	\$	52,732	\$	14,362	\$	13,560	\$	16,161
Non Resident (15 hours)	\$	48,987	\$	30,904	\$	51,000	\$	42,082	\$	47,988	\$	50,840	\$	52,732	\$	31,870	\$	37,290	\$	35,211

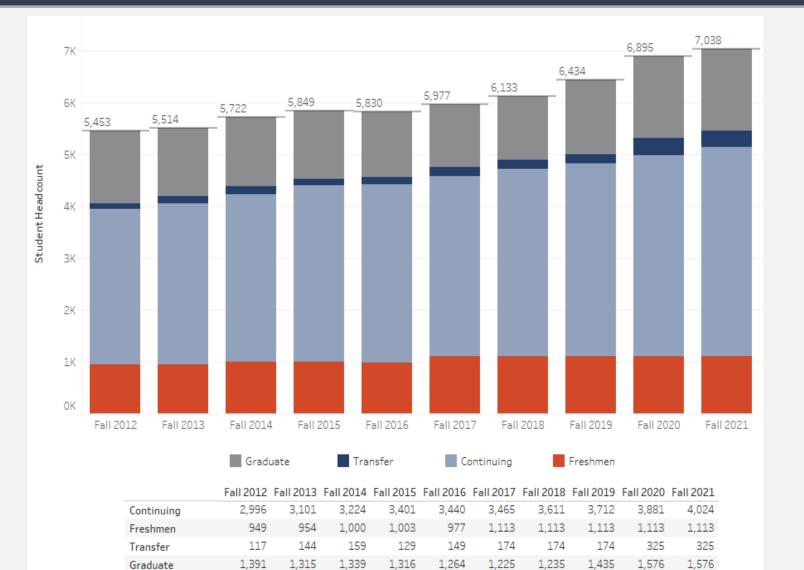
note: CU Non Resident has set tuition rates dependent first semester enrolled. Showing rate for Summer 2017-Spring 2018.

*As presented to the CU Board of Regents. Official 2017-2018 rates will be published on May 1, 2017.

15

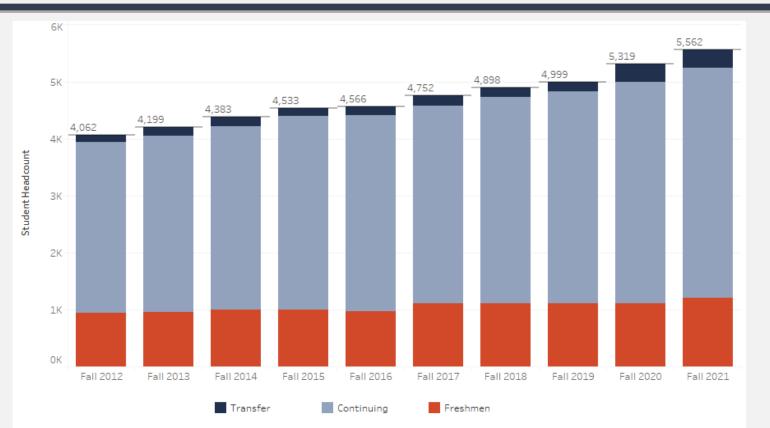


Total Enrollment





Total Undergraduate Enrollment



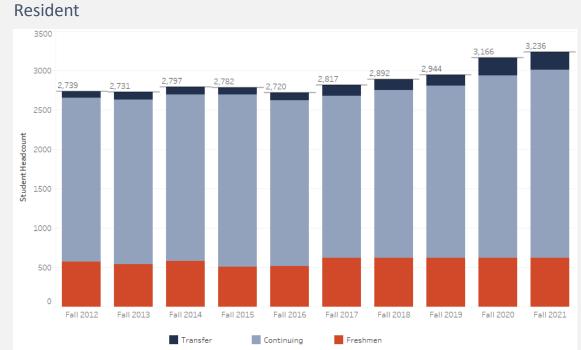
Fall 2012 Fall 2013 Fall 2014 Fall 2015 Fall 2016 Fall 2017 Fall 2018 Fall 2019 Fall 2020 Fall 2021

Continuing	2,996	3,101	3,224	3,401	3,440	3,465	3,611	3,712	3,881	4,024
Freshmen	949	954	1,000	1,003	977	1,113	1,113	1,113	1,113	1,213
Transfer	117	144	159	129	149	174	174	174	325	325

Fall 2012 Fall 2013 Fall 2014 Fall 2015 Fall 2016 Fall 2017

Total Applications 12,517 13,060 13	,197 12,422 12,814 11,085
Admit Rate 36.63% 35.91% 35.	85% 37.14% 40.66% 55.90%
Yield Rate 23.25% 23.41% 24	50% 24.56% 21.61% 19.80%

Undergraduate Enrollment by Residency

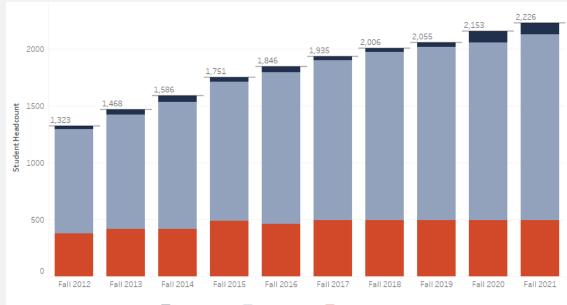


	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Continuing	2,082	2,097	2,109	2,183	2,108	2,062	2,137	2,189	2,321	2,391
Freshmen	572	537	584	512	517	618	618	618	618	618

Freshmen	572	537	584	512	517	618	618	618	618	618
Transfer	85	97	104	87	95	137	137	137	227	227

	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017
Total Applications	3,591	3,705	3,834	3,583	3,600	3,006
Admit Rate	47.93%	43.10%	41.68%	43.79%	44.97%	61.00%
Yield Rate	38.23%	39.45%	43.05%	38.11%	37.49%	37.60%

Non-Resident



Transfer Continuing Freshmen

	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Continuing	914	1,004	1,115	1,218	1,332	1,403	1,474	1,523	1,560	1,633
Freshmen	377	417	416	491	460	495	495	495	495	495
Transfer	32	47	55	42	54	37	37	37	98	98

	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017
Total Applications	8,926	9,355	9,363	8,839	9,214	8,079
Admit Rate	32.09%	33.06%	33.46%	34.45%	38.97%	54.00%
Yield Rate	14.25%	15.13%	15.03%	17.57%	14.45%	12.40%



Admit and Yield Rates (and compared to peers)

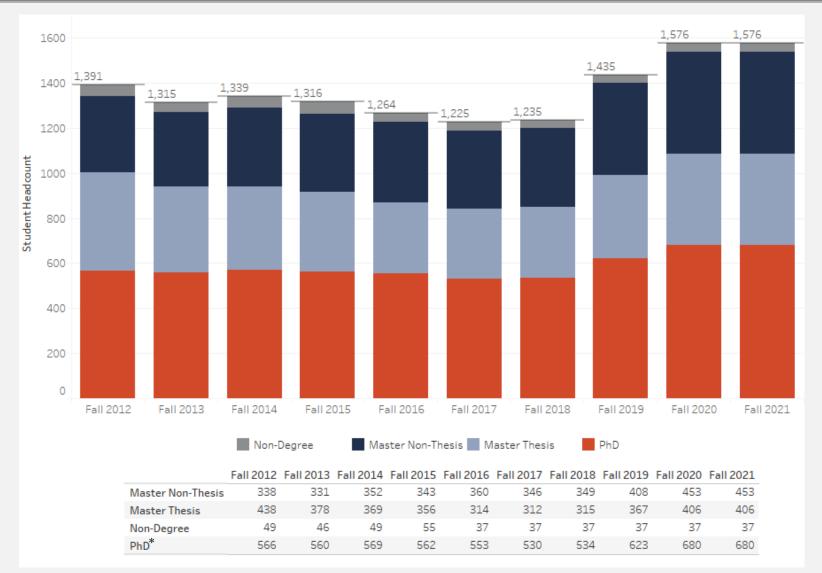
Peer Institutions*	Fa	ll 2012		Fa	ll 2013		Fa	ll 2014		Fall 2015		
	Total	Admit	Yield	Total	Admit	Yield	Total	Admit	Yield	Total	Admit	Yield
	Applications	Rate	Rate	Applications	Rate	Rate	Applications	Rate	Rate	Applications	Rate	Rate
Carnegie Mellon University	17,313	27.8%	29.3%	18,884	25.5%	30.0%	19,812	24.6%	30.2%	20,547	23.7%	32.3%
Colorado State University-Fort Collins	17,929	74.7%	34.2%	17,970	77.4%	31.9%	16,655	80.5%	32.5%	18,556	80.8%	31.6%
Georgia Institute of Technology-Main Campus	14,088	51.2%	37.4%	14,645	54.9%	37.8%	25,884	33.4%	32.5%	27,277	32.2%	35.2%
Lehigh University	11,529	32.6%	32.4%	12,589	30.8%	30.9%	11,512	34.3%	32.9%	12,843	30.4%	32.3%
Rensselaer Polytechnic Institute	15,222	43.6%	20.0%	16,150	41.2%	21.2%	18,602	37.5%	19.1%	17,752	41.9%	18.6%
Stanford University	36,632	6.6%	72.8%	38,828	5.7%	76.0%	42,167	5.1%	78.2%	42,497	5.0%	80.4%
University of California-Berkeley	52,982	21.6%	38.8%	61,717	18.0%	37.5%	73,782	16.0%	46.3%	78,893	16.9%	41.7%
University of Colorado Boulder	21,744	83.6%	30.1%	22,473	87.7%	29.7%	28,852	84.2%	24.2%	31,325	79.6%	24.9%
Worcester Polytechnic Institute	7,585	52.6%	23.9%	8,578	51.6%	24.9%	10,233	43.8%	23.6%	10,172	48.5%	22.1%
Colorado School of Mines	12,517	36.6%	23.3%	13,060	35.9%	23.4%	13,197	35.9%	24.5%	12,422	37.1%	24.6%

	Fa	II 2016		Fa	ll 2017	
	Total	Admit	Yield	Total	Admit	Yield
	Applications	Rate	Rate	Applications	Rate	Rate
Colorado School of Mines	12,814	40.7%	21.6%	11,085	55.9%	19.8%



19

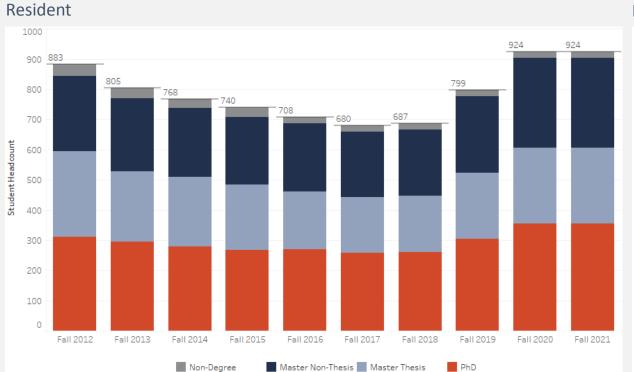
Graduate Enrollment



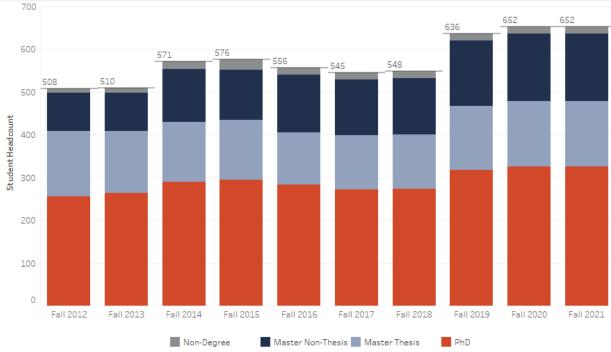


*Assumes commensurate research growth

Graduate Enrollment by Residency



Non-Resident

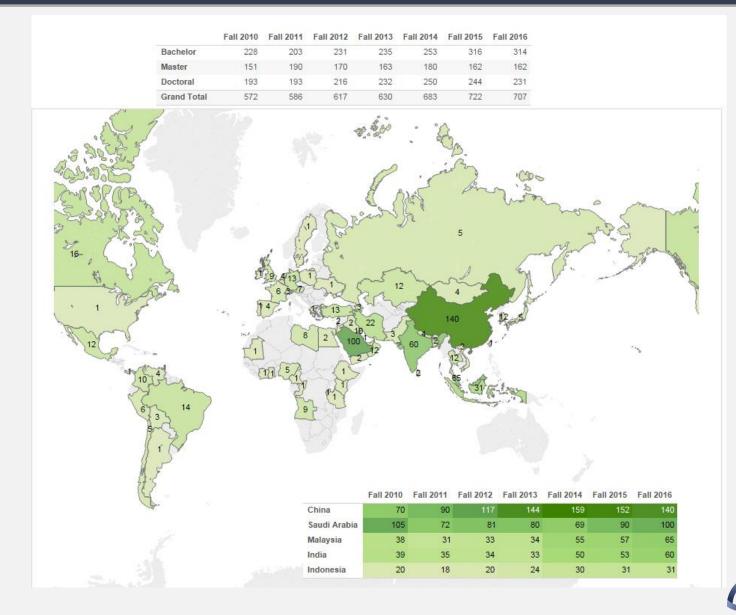


	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Master Non-Thesis	248	242	228	225	225	216	218	255	296	296
Master Thesis	285	233	229	216	193	185	187	218	253	253
Non-Degree	39	34	31	31	21	21	21	21	21	21
PhD *	311	296	280	268	269	258	261	305	354	354

	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Master Non-Thesis	90	89	124	118	135	130	131	153	157	157
Master Thesis	153	145	140	140	121	127	128	149	153	153
Non-Degree	10	12	18	24	16	16	16	16	16	16
PhD	255	264	289	294	284	272	273	318	326	326



International Enrollment





FY17 State deficit of \$124M

- JBC balanced the budget by lowering required reserve
- FY18 State Revenue did not meet required spending thus putting the State budget in a hole
 - JBC adopted the more optimistic financial outlook +\$143M to balance the budget
- FY18 Statewide \$20M increase for Higher Ed
 - Mines = 4.2% or \$850,000
 - In jeopardy of mid-year correction



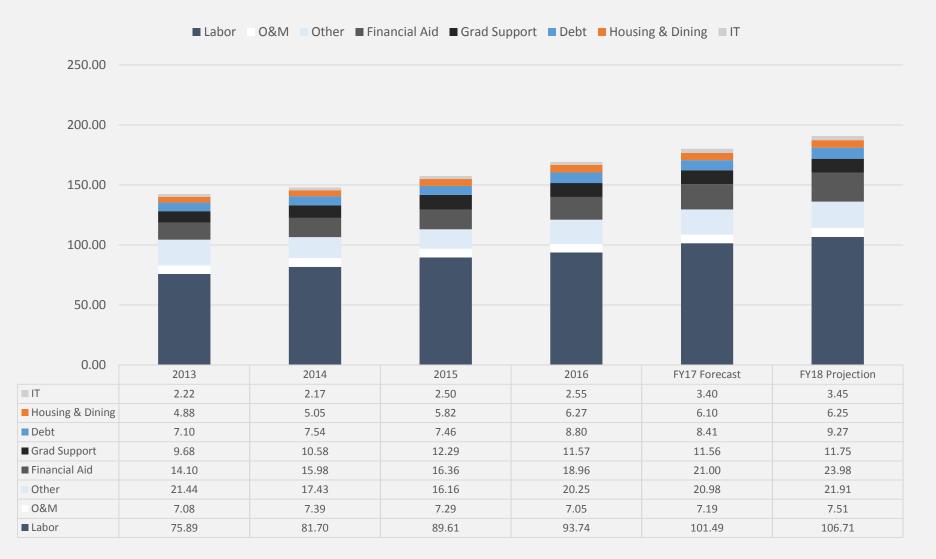




All Funds Budget Proposal



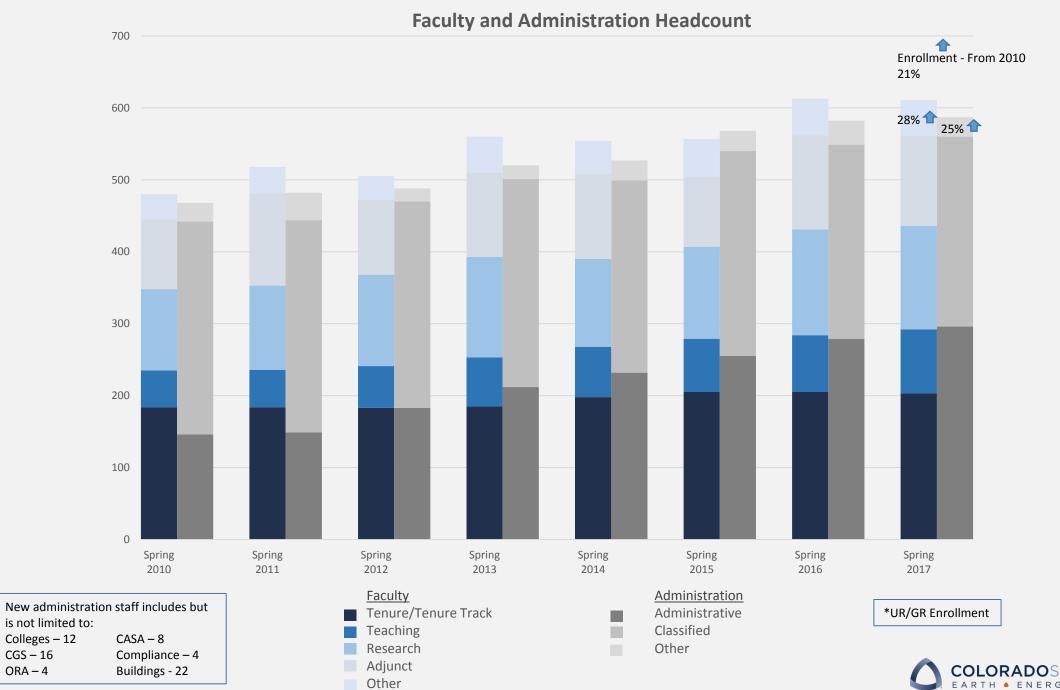






Expenses as a % of Total (and compared to peers)

				Peer Pr	ivate*	Peer P	ublic*
2014 15		Change f	rom FY10				
2014-15	Mines	Percent	Dollar	Average	Median	Average	Median
Instruction	38.5%	+1.7%	+ \$30.94	34.9%	34.9%	32.5%	31.5%
Research	24.5%	-19.4%	+ \$9.56	22.6%	20.3%	32.2%	25.0%
Academic Support	9.9%	+26.2%	+ \$10.98	8.4%	7.1%	7.3%	9.2%
Student Services	3.8%	+29.2%	+ \$4.36	7.9%	8.6%	6.3%	6.4%
Institutional Support	9.5%	+15.8%	+ \$9.50	14.9%	13.9%	10.1%	9.1%
Auxiliary Enterprises	13.5%	+6.2%	+ \$11.76	11.2%	11.3%	9.8%	7.1%



COLORADOSCHOOLOFMINES

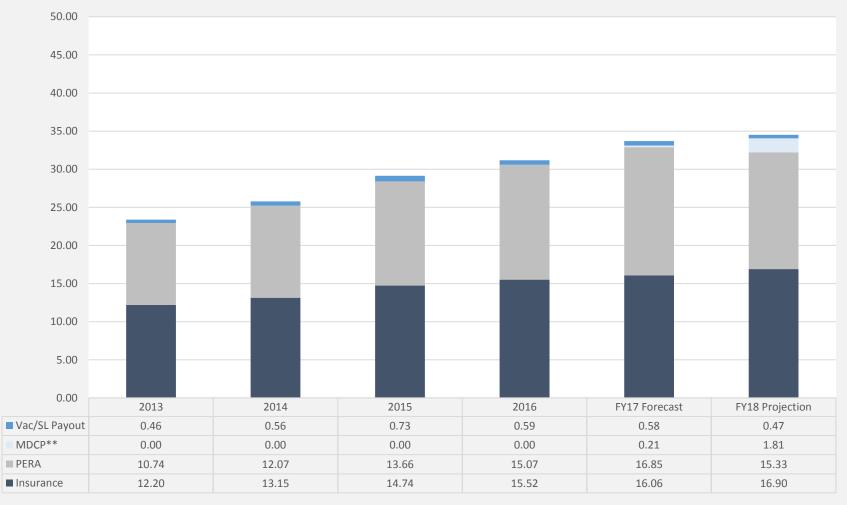
Labor





Health Benefits

	Health Insurance – Peers*
	Employer Coverage
Mines	100% coverage; emplyee + family
	Offers a plan for 100% coverage for full-time
Stanford	(employee only)
CSU - Eng.	Offers a plan for 100% coverage (employee only)
Cal-	Offers a plan for 100% coverage (employee, emp
Berkeley	+ children, emp + adult, family)
Georgia	
Tech	Offers a plan for 90.7% coverage
RPI	78% coverage for full-time at \$50k or less 75% coverage for full-time at \$50k or more



**Mines Defined Contribution Plan

■ Insurance ■ PERA ■ MDCP** ■ Vac/SL Payout

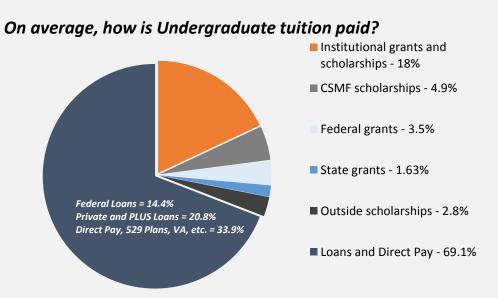


30

* Source = respective peers websites

Undergraduate Financial Aid and Graduate TA Labor







Reserves



Unrestricted Net Assets Excluding Pension Liabilities

	Undesignated				Student Fee/		Total Unrestricted
		Faculty Start up	Petroleum Institute	Colorado Scholars	Health Insurance	Other	
Beginning Balance at July 1, 2016	42,639,704	19,446,965	13,560,282	6,996,405	6,806,486	26,606,884	116,056,726
Additions	10,823,426	5,900,000	740,809	375,082		3,424,863	
Reductions	(32,819,323)	(8,500,000)				(3,036,804)	
Ending Balance June 30, 2017	20,643,807	16,846,965	14,301,091	7,371,487	6,806,486	26,994,943	92,964,779
Additions	2,000,000	6,219,096				597,581	
Reductions	(9,430,000)	(8,500,000)					
Ending Balance June 30, 2018	13,213,807	14,566,061	14,301,091	7,371,487	6,806,486	27,592,524	83,851,456
Additions	2,800,000	6,219,096					
Reductions	-	(8,500,000)					
Ending Balance June 30, 2019	16,013,807	12,285,157	14,301,091	7,371,487	6,806,486	27,592,524	84,370,552
Additions	2,800,000	6,219,096					
Reductions	(1,200,000)	(8,500,000)					
Ending Balance June 30, 2020	17,613,807	10,004,253	14,301,091	7,371,487	6,806,486	27,592,524	83,689,648
Additions	2,800,000	6,219,096					
Reductions	-	(8,500,000)					
Ending Balance June 30, 2021	20,413,807	7,723,349	14,301,091	7,371,487	6,806,486	27,592,524	84,208,744

Undesignated uses FY2017:

CoorsTek - \$17,825,945 Boiler Plant - \$6,889,665 1600 Jackson Street - \$4,930,000 Strategic Initiatives - \$368,944 Rollfoward for FY17 operating - \$947,150 Other - \$1,857,619

Undesignated uses FY2018: CoorsTek - \$459,777

Green Center Roof - \$8,500,000 Campus Switch Gear - \$470,000 Undesignated uses FY2020: Potential Real Estate adjacent to campus - \$1,200,000



CSM Foundation Budget



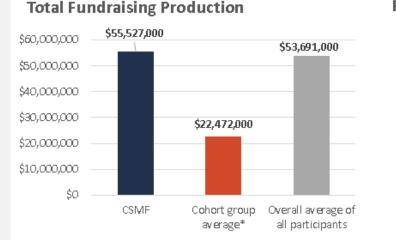
CSM Foundation – Preliminary FY18 Unrestricted Budget

						Change from PY						
	FY'18			FY'17		Amount						
REVENUE:												
CSMF Endowment Advancement Fee - 1.75% (FY17 was 1.8%)		3,167,844	\$	3,196,778	\$	(28,934)	-1%					
CSM Endowment Held Fees - 1.75%		451,240		474,739		(23,499)	-5%					
Net CSM Advancement Services Fee * Administration Fee on Non-Endowed Restr Gifts Unrestricted Cash Gifts-Bequests, trust s, etc Reserve Endowment Support Other Sources Unrestricted Investment Income CSMF Reserve Endowment-Starzer Welcome Center lease		1,786,649 260,000 250,000		1,625,771 260,000 250,000 148,616 48,000 110,000 200,900		160,878 - - 238,606 - (110,000) (200,900)	10% 0% 0% 161% 0% -100%					
								387,222				
								48,000				
		-										
		-										
		Subtotal Revenue excluding Alumni Relations	\$		6,350,955			\$	6,314,804	\$	36,151	1%
		Foundation Alumni Relations support			-				175,000		(175,000)	
University Alumni Relations support		285,000		110,000		175,000						
CSMAA Alumni Relations Support		72,400		72,400		-						
Alumni Relations Revenue		37,600		50,609		(13,009)						
Subtotal CSMF Alumni Relations Revenue	\$	395,000	\$	408,009	\$	(13,009)						
Total CSMF Revenue (includes Alumni Relations)	\$	6,745,955	\$	6,722,813	\$	23,142	0%					
EXPENDITURES:												
Personnel Compensation	\$	5,235,258	\$	5,132,606	\$	102,652	2%					
Operations		1,510,697		1,590,207		(79,510)	- 5%					
Total CSMF Expenditures (includes Alumni Relations**)	\$	6,745,955	\$	6,722,813	\$	23,142	0%					
*CSM Advancement Fee	\$	1,900,000										
*CSM Advancement Fee Less Colorado Legislative Services contract	\$ \$	1,900,000 (113,351)										

** In addition to the \$400,000 Alumni Relations budget, the Foundation provides AR Program management, financial and legal oversight, marketing and media support, alumni database management, and systems support.

Advancement Investment & Performance Benchmarking (provided by CSMF)

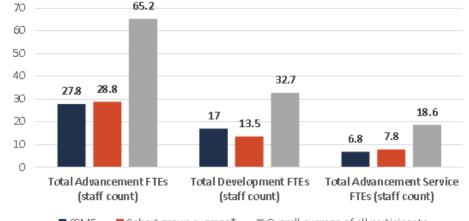
We participate in the EAB (Education Advisory Board) Advancement Investment and Performance Initiative to benchmark ourselves with 30+ universities on staffing, operation budget and fundraising production. The following observations are based on FY2013-2015 data averages.



Fundraising Productivity

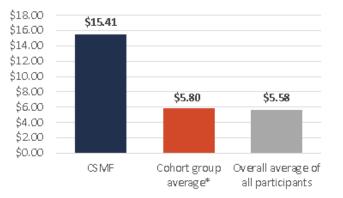


Staffing Investment



■ CSMF ■ Cohort group average* ■ Overall average of all participants

Return on Investment ROI**



*cohort universities based on a combination of alumni of record, enrollment size, endowment value and classification (research or master's university) **ROI calculation is dollars raised per dollar of investment (EAB calculation)

***Institutions total advancement investment induding personnel, operating and capital expenses