

Math and Sciences

Presenter:

Carol Hernandez, Ed.D.

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College of Marin's Mission

- College of Marin's commitment to educational excellence is rooted in providing equitable opportunities and fostering success for all members of our diverse community by offering:
 - preparation for transfer to four-year colleges and universities
 - associate degrees and certificates
 - career technical education
 - basic skills improvement
 - English as a second language
 - lifelong learning
 - community and cultural enrichment
- College of Marin responds to community needs by offering student-centered programs and services in a supportive, innovative learning environment that promotes social and environmental responsibility.

AREA Departments

Social Sciences

- Economics
- Ethnic Studies
- History
- Political Sciences

Behavioral Sciences

- Anthropology
- Behavioral Sciences
- Psychology
- Sociology

Physical Sciences

- Astronomy
- Chemistry
- Computer Sciences
- Engineering
- Physics

Life & Earth Sciences

- Biology
- Geology
- Geography
- Environmental Sciences
- Natural History

Mathematics

- Math

Summary of Faculty and Staff

- Administrative Assistants: 3
- Full Time Faculty: 32
- Part Time Faculty: 56
- Coordinators: 2
- Lab Techs: 5
- Math IS: 2
- Hourlies: 7



Math and Sciences Departments

Social Sciences

- 3 FT Faculty
- 11 PT Faculty

Behavioral Sciences

- 6 FT Faculty
- 8 PT Faculty

Physical Sciences

- 6 FT Faculty
- 11 PT Faculty
- 2 Lab Tech

Life & Earth Sciences

- 8 FT Faculty
- 11 PT Faculty
- Biology Lab Coordinator
- 3 Lab Tech (2.42 FTE)
- 3 Hourly Staff

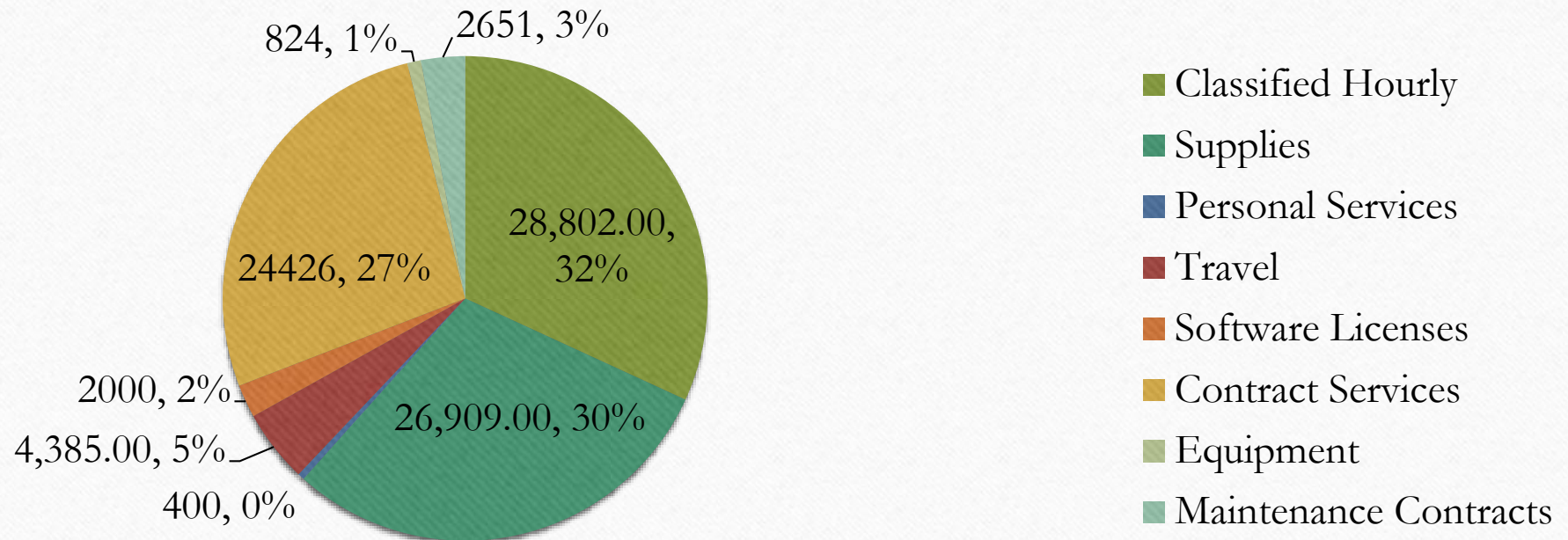
Mathematics

- 9 FT Faculty
- 15 PT Faculty
- 1 Math Laboratory Coordinator
- 2 Math IS (1.2 FTE)
- 4 Hourly Staff

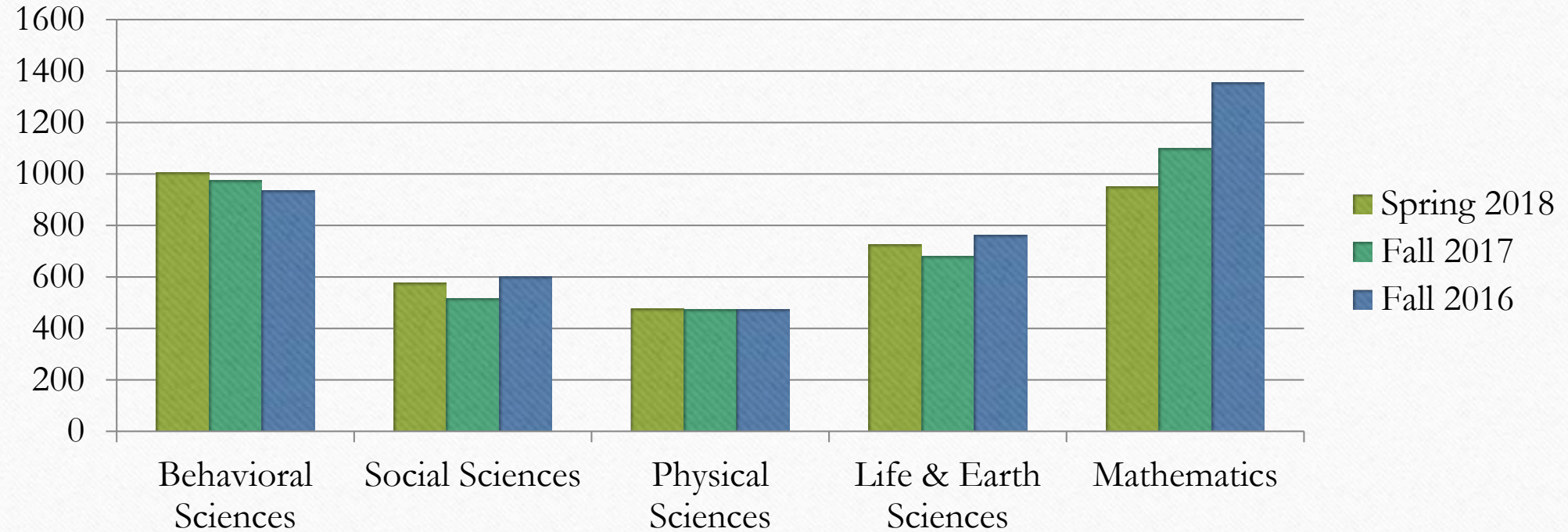
2018-19 Budget Overview

Description	Budget
Permanent Academic Salaries	\$3,302,001.00
Permanent Classified Salaries	\$578,826.00
Benefits	\$1,568,863.00
Total Non-discretionary	\$5,449,690.00
PT Faculty	\$2,357,255.00
Classified Hourly	\$28,802.00
Supplies	\$26,909.00
Personal Services	\$400.00
Travel	\$4,385.00
Maintenance contract/repairs	\$2,651.00
Software License	\$2,000.00
Other Contract Services	\$24,426.00
Recruiting	\$49.00
Furniture, Fixtures and Equipment	\$824.00
Total Discretionary	\$2,447,701.00
Total Budget	\$7,897,391.00

Discretionary Budget 2018-2019



Unduplicated Headcount Across Departments



Fall 2015 – Spring 2018

Degree Type	# Degree
AA-T-CSU Anthropology	8
AA-T CSU History	9
AA-T UC	1
AA Natural Science	93
AA Social and Behavioral Science	169
AA-CSU Natural Science	1
AA-CSU Social and Behavioral Science	2
AA-Mathematics	3
AA-T-CSU Economics	10
AA-T-CSU Political Science	21
AA-T-CSU Psychology	69
AA-T-CSU Sociology	25
AA-T Geography	2
AA-T-UC Economics	1
AA-T-UC Psychology	2
AA-T-UC Sociology	2
AA-UC Natural Science	1
AA-UC Social and Behavioral Science	2
AS Biology	5
AS Computer Science	3
AS Physical Science	18
AS-T-CSU Physics	2
AS-T Mathematics	3
AS-T-UC Mathematics	1
Total	453



Major	# transferred
Anthropology	9
Biology	71
Chemistry	8
Computer Science	47
Economics	16
Engineering	10
Geography	2
Geology	6
History	6
International Studies	1
LA Social Behavioral SC	53
Liberal Arts and Sciences	1
Liberal Arts Natural Sciences	30
Mathematics	19
Physical Sciences	21
Physics	6
Political Science	30
Psychology	121
Social Science	2
Sociology	52
Total	511

Fall 2015 - Spring 2018



In three years Math & Sciences will be:

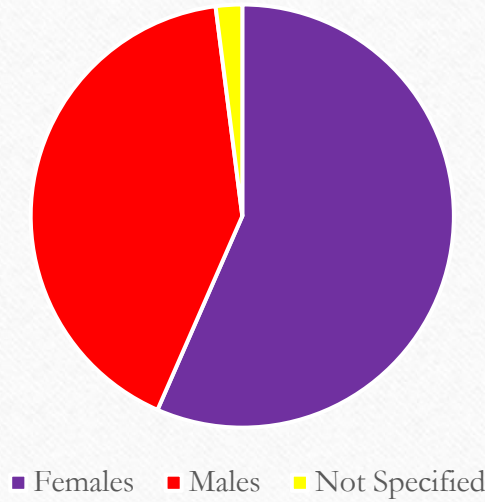
- Continuing to offer a variety of degrees, transfer pathways, and certificates
- Supporting our underrepresented STEM students through a new learning community
- Continuing to strengthen our community and high school partnerships in an effort to create a stronger pipeline of diverse students.

To get there my area needs:

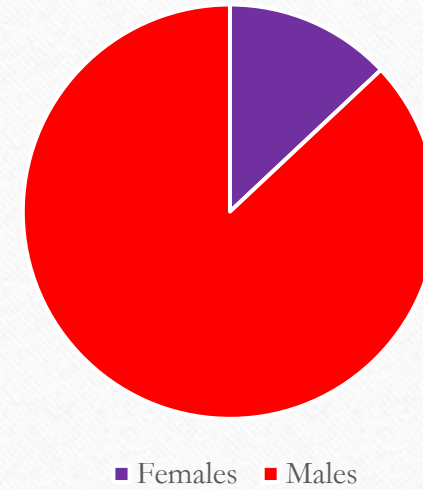
- STEM Learning Community Coordinator: Cost 5 units/sem (46,000)
- This aligns with PRAC's guiding principles that all recommendations must be *student centric, equity-minded, and responsive to our diverse community.*

Term		201610 - Spring 2016 Credit/Noncredit			201710 - Spring 2017 Credit/Noncredit			201810 - Spring 2018 Credit/Noncredit		
		Total Headcount	Passed	Success Rate	Total Headcount	Passed	Success Rate	Total Headcount	Passed	Success Rate
Course	Gender	Value	Value	Value	Value	Value	Value	Value	Value	Value
	109 Female	18	4	22.22%	10	3	30.00%	16	6	37.50%
	Male	45	13	28.89%	43	15	34.88%	26	8	30.77%
	Other/Unknown	1	0	0.00%	1	0	0.00%	1	0	0.00%
	Sub-total by 109	64	17	26.56%	54	18	33.33%	43	14	32.56%
	115 Female	111	78	70.27%	101	62	61.39%	115	95	82.61%
	Male	83	59	71.08%	86	57	66.28%	94	72	76.60%
	Other/Unknown	0	0	0.00%	2	2	100.00%	4	3	75.00%
	Sub-total by 115	194	137	70.62%	189	121	64.02%	213	170	79.81%
	123 Female	17	10	58.82%	7	4	57.14%	6	4	66.67%
	Male	26	15	57.69%	21	13	61.90%	28	14	50.00%
	Other/Unknown	0	0	0.00%	0	0	0.00%	0	0	0.00%
	Sub-total by 123	43	25	58.14%	28	17	60.71%	34	18	52.94%
	124 Female	11	10	90.91%	8	5	62.50%	13	10	76.92%
	Male	32	24	75.00%	30	22	73.33%	29	21	72.41%
	Other/Unknown	0	0	0.00%	0	0	0.00%	1	1	100.00%
	Sub-total by 124	43	34	79.07%	38	27	71.05%	43	32	74.42%
	199	5	5	100.00%	0	0	0.00%	0	0	0.00%
	223 Female	4	2	50.00%	4	4	100.00%	4	3	75.00%
	Male	13	4	30.77%	18	13	72.22%	11	9	81.82%
	Sub-total by 223	17	6	35.29%	22	17	77.27%	15	12	80.00%
	224 Female	3	3	100.00%	7	7	100.00%	4	4	100.00%
	Male	17	16	94.12%	14	13	92.86%	17	16	94.12%
	Sub-total by 224	20	19	95.00%	21	20	95.24%	21	20	95.24%
Sub-total by MATH		1215	644	53.00%	1195	666	55.73%	953	564	59.18%
		1215	644	53.00%	1195	666	55.73%	953	564	59.18%

Gender at COM



Gender in Engineering Physics Series



		201610 - Spring 2016			201710 - Spring 2017			201810 - Spring 2018		
		Credit/Noncredit			Credit/Noncredit			Credit/Noncredit		
Course	Gender	Total Headcount	Passed	Success Rate	Total Headcount	Passed	Success Rate	Total Headcount	Passed	Success Rate
		Value	Value	Value	Value	Value	Value	Value	Value	Value
207A	Female	2	1	50.00%	3	3	100.00%	4	3	75.00%
	Male	20	12	60.00%	21	16	76.19%	20	17	85.00%
	Other/Unknown	0	0	0.00%	0	0	0.00%	1	0	0.00%
	Sub-total by 207A	22	13	59.09%	24	19	79.17%	25	20	80.00%

Can Do Without (for 2019-20 FY)

- 28.75 units from the Math Skills and Math Allocation due to AB 705 implementation. Approximate **savings of \$132,250.**
- .4 of an AA II. Approximate **salary savings of \$23,180** plus benefits.
- Math Lab Coordinator reduction from 8 to 2 (or 1) units. Approximate **savings of \$27,600-\$32,200.**
- Biology Lab Coordinator elimination: 4 units. Approximate **savings of \$18,400.**

Total Budget Savings (19-20 FY)

Math Skills and Math Allocation (AB 705)	\$132,250
AA II	\$23,180
Math Lab Coordinator	\$27,600
Biology Lab Coordinator	\$18,400
STEM Learning Community Coordinator	\$46,000
Net Savings	\$155,431

Can Do Without (From M&S Chairs)

- **Coordinator Units**
- **Look at redundancies such as Statway**
- **Trucks around campus**
- **Move to 4 day work week**

Can Do Without (From M&S Techs)

- **Waste Disposal**
- **Moving from a 3 to 2 semester biology series**
- **Combo Lectures/Individual labs**

Summary

- ✓ **Main Takeaways**

- ✓ **What we do:** We offer various degrees, transfer pathways, and certificates

- ✓ **Top Priorities:**

- ✓ Increase the number of Degrees, Transfers, and Certificates

- ✓ Decrease time to degree and transfer

- ✓ Increase number of students advancing from pre-college level course to college level courses

- ✓ Increase support for our underrepresented STEM students

- ✓ Continuing to strengthen our community and high school partnerships in an effort to create a stronger pipeline of diverse students.