

---

# Math and Sciences

---

PRESENTER:

CAROL HERNANDEZ, Ed.D.

DATE 03.27.18

# 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.

# Opportunity

---

- The United States STEM workforce does not reflect the United States working age demographics.
- It is estimated that about 55% of Latin@ students and 50% of African American student who attain a STEM Bachelor's or Master's degree attended a community college at some point (Bradley, 2011).

# 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: 31
- 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

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

## Mathematics

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

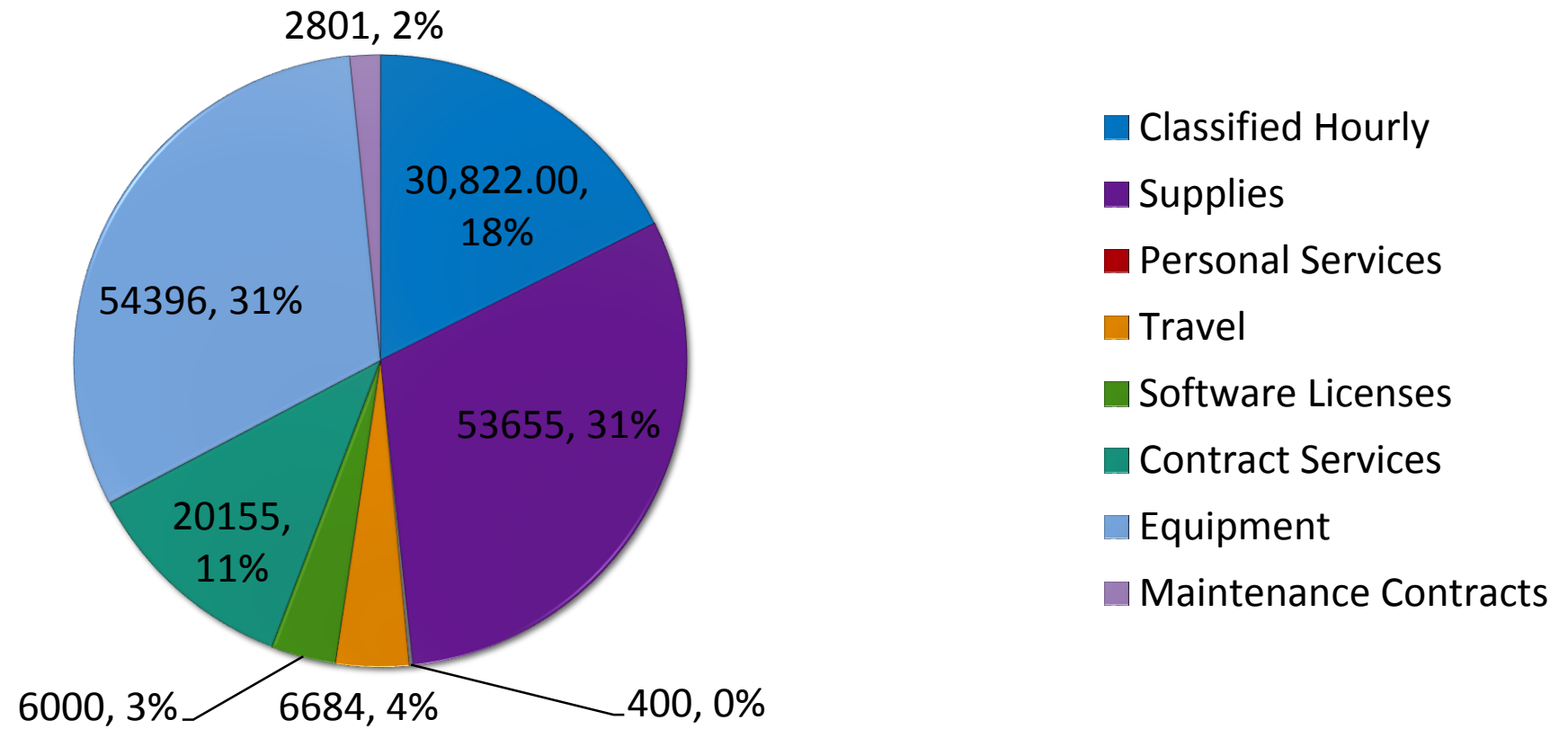
# 2018-19 Budget Overview

---

Description	Budget
Permanent Academic Salaries	\$3,659,109.00
Permanent Classified Salaries	\$521,388.00
Benefits	\$1,535,178.00
Total Non-discretionary	\$5,715,675.00
PT Faculty	\$1,821,268.00
Classified Hourly	\$30,822.00
Supplies	\$53,655.08
Personal Services	\$400.00
Travel	\$6,684.22
Maintenance contract/repairs	\$2,801.00
Software License	\$6,000.00
Other Contract Services	\$20,155.00
Furniture, Fixtures and Equipment	\$54,396.00
Other Outlay	\$2,000.00
Total Discretionary	\$1,998,181.30
Total Budget	\$7,713,856.30

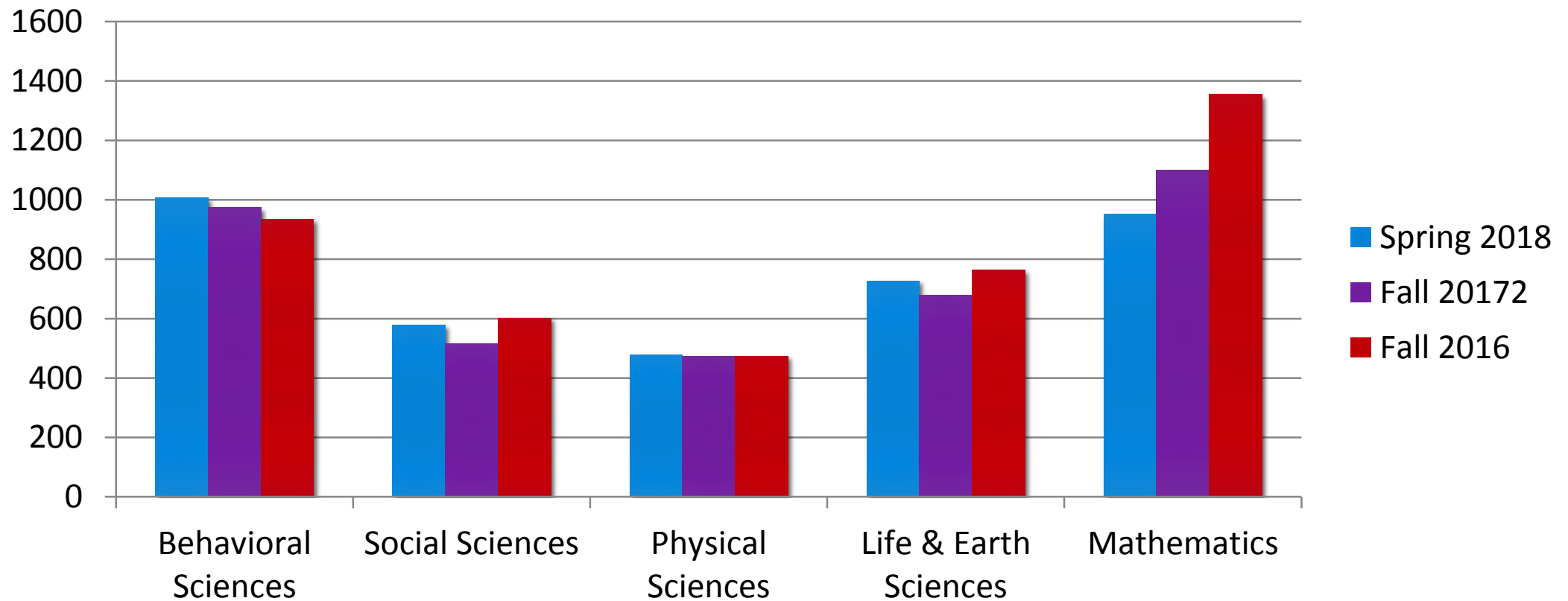
# Budget 2018-2019

---





# Unduplicated Headcount across Departments



Degree Type	# Degrees
AA-T Economics	4
AA-T Mathematics	3
AA-T Political Science	18
AA-T Psychology	58
AA-T Sociology	22
AA Liberal Arts, Natural Science	99
AA Liberal Arts, Social & Behavioral Science	181
AA Mathematics	7
AA Political Science	18
AS Biology	7
AS Computer Science	4
AS Engineering Transfer	1
AS Physical Science	17
AS-T Physics	1

# Fall 2014 - Summer 2017 UPDATE



# Fall 2014 - Spring 2017

---

Declared Major at COM	# transferred to a four year institution
Biology	75
Computer Science	28
Psychology	65
Engineering	28
Physical Sciences	9
Mathematics	17
Anthropology	1
Chemistry	16
Political Science	25
Economics	3
Social Science	4
Sociology	22
Geology	8
Physics	12
Geography	1
Liberal Arts: Natural History	16
Liberal Arts: Social Science and BEHS	53



# Major Initiatives/Changes/PR Focus Areas

---

1. AB705
2. Model UN
3. AAUW/Super STEM Saturday
4. Western Regional HAPS (Human Anatomy Physiology Society) conference 10/20/18
5. Engineering 110 at Terra Linda Spring 2018
6. Revitalize the Natural History Certificate

# Planning Agenda

---

- Connection to Strategic Plan
  - Initiative #1 supports Strategic Objective SA2.1: Decrease time to degree by at least one year for the first cohort of the three-year strategic plan.
  - Initiative #5 supports Strategic Objective SA5.1: Increase dual enrollment of high school students by 15 percentage points per year during the three years of this plan.
- Strategic Objective SS4.1: Increase percentage of students advancing from pre-college level course to college level courses by 2018.

# What is AB705?

---

- AB 705 requires community college districts to maximize the probability that a student will enter and complete transfer-level coursework in math and English within a one-year timeframe by utilizing assessment measures that include high school performance to achieve this goal.

# Model UN

---

- Student led club that meets several times every week in preparation for Model UN Conferences
- Students role-play UN diplomats representing a particular country so they have to know their country assignments extremely well.
- Model UN Far West is the main conference: At this conference COM students will represent China and Mexico!
- Funding comes from ASCOM as well as from the students own fundraising
- The MUN club also puts on other events such as film shows, debates, and presentations.
  - This April the MUN club will be sponsoring a showing of a documentary about the Chinese Exclusion Act in cooperation with the Rotary Club of SF Chinatown and the Center for Asian American Media.
- MUN conferences and club participation is also coordinated most years with the class Politics 210, War, Peace and the United Nations.



# Programmatic Needs

---

## Instructional Equipment

- BIOL: 15805
- Anatomy: 51000
- Micro: 6136
- GEOG: 11025
- GEOL: 11038
- Museum: 841
- Social Sciences: 2233
- BEHS: 11603
- Physical Sciences: 96450

## Miscellaneous

- Micro Budget Increase: 10,001
- Social Sciences Budget Increase: 2100
- GEOG Budget Increase: 602
- Museum Budget Increase: 1,000

## Units/Staff

- BIOL: 7.98 units
- GEO: 1.5 units
- Math: 8 units
- ANTH: 6 units
- Econ: 3 units
- POLS: 3 units
- Model UN: 1200
- 3 Math IS: 87,960
- .5 Lab Tech: 30,000



# Summary

---

- ✓ **Main Takeaways**
  - ✓ **What we do:** We offer various degrees and transfer pathways
  - ✓ **Where we are headed:** Continuing to strengthen our community and high school partnerships in an effort to create a stronger pipeline of diverse students.
  - ✓ **What we need to get there:** Continued support through the allocation of resources
  - ✓ **Top Priorities:**
    - ✓ Increase the number of Degrees and Transfers
    - ✓ Decrease time to degree and transfer