

# 1. Assessment Plan - Four Column



## PIE - Natural Sciences: Biological Sciences Unit

### Narrative Reporting Year

**2017-18**

**Contact Person:** David Mirman

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**Program Planning Dialog:** We have a new degree in public health which includes 6 new public health courses. We have offered PUBH 26, and 28 so far.

We have written several new curricula in Anthropology including Anth 6 Linguistic Anthropology, Anth 15, 16 and 17 Peoples and Cultures of the World and Anth 50 Introduction to Science, Technology and Society. Anth 6 has already been EDC approved, the others are new submissions for this year.

We have also written new curricular in Zoology (Zoo 3) and a new Public Health independent study course (PUBH 99), and a new lab 99 course (STEM 99). Our prior submission of Anat 38 Pathophysiology has been approved. A DL amendment for PUBH 26 was approved.

We plan to offer these new courses next year. Our ability to offer new courses may be limited if we don't receive additional lecture space. We have adequate staff in these areas at this time.

Our AST in Public health has been conditionally approved by the chancellor's office (pending course revisions to match course CID descriptors. We have written a new programs in Anthropology (AAT Anthropology) and Biology (AST Biology and an AS Biology). We have written a certificate in anatomy prosection. These will use existing courses, staff and facilities.

We are renumbering our major's core courses to make it more clear to students and to transfer institutions which of our classes are our biology major's core classes. This will have little impact on budgets or facilities. It may shift a few students out of Bio 1 and into Bio 4 (now to be called Bio 101).

We plan to develop Histotechnology application and selection process.

We have developed a bachelor's degree in Histotechnology and we are waiting for the state to expand the number of bachelor's degrees offered at community colleges. This would include the recently approved course Anat 38 Pathophysiology, and would require new courses HT 22 Laboratory Management and Chem 120 Biochemistry. We likely would need additional adjunct faculty to support this program. We likely would need additional lecture facilities to support this program, as an HT lecture currently taught in the HT lab. If this program is developed and approved, we may need to move existing HT lectures out of the lab room into lecture rooms to make room for more HT lab sections.

We plan to develop a Nature Center for the Wildlife Sanctuary and enhancements to the expanded Wildlife Sanctuary. These are part of facilities master planning. We have

an urgent need for funds for fencing.

**External Conditions, Trends, or Impacts:** 1. Improved college budgets have allowed continued growth, letting us come closer to meeting student demand for our courses. This year we have added sections of ANAT 10A and 10B, ANTH 5, BIOL 4 and 20, MICR 22, PUBH 24, 26, 28 and 29.

2. The state has asked the college to develop CSU Transfer degrees. We have developed an AAT Anthropology and an AST Biology in response.

3. The teaching of evolutionary biology continues to be challenged by creationists, including those ascribing to intelligent design. Other tenets of biology such as the safety and efficacy of vaccines and climate change are being challenged by other pseudoscientific beliefs.

4. Global biological changes require increased biophilia and a more robust scientific literacy among the public.

5. There is decreased support for the sciences at the federal level and an increased need to educate the public about basic scientific facts, critical thinking, and how science works as a discipline.

6. Biology has been participating in the dual enrollment program. We have taught Bio 5 and Anth 5. As this has started to grow, this is adding to staffing demands for the department.

7. The HT program is not able to grow because of limited clinical affiliate sites.

**Internal Conditions, Trends, or Impacts :** 1. Though we have been able to add sections to meet student demand in many areas, we still have many courses which cannot meet student demand. We are increasingly space-limited and will no longer be able to grow to meet student demand without additional lecture and lab facilities. E.g. Fall 2017 our lecture rooms are utilized during all 60 out of 60 possible MW or TR time blocks for the popular 9:45, 11:30 and 1:15 class start times and during 59 of 60 such slots in Spring. (Full disclosure: there were some open spots on individual days, e.g. a Tue 9:45-12:55 class which left an open spot in a room Thur 9:45-12:55).

2. Our department is unwilling to sacrifice quality to meet enrollment demands. So far we have been able to find top quality adjunct faculty. With the increasing number of full-time openings this is becoming a greater challenge.

3. Instructional equipment funds have caught up to the backlog of demand created during the great recession. There is still a lack of a regular process for replacing aging technology such as classroom computers and projectors.

4. Funding for SI positions has not been sufficient to meet the number of sections that could benefit greatly from having an SI. This is true even if SIs are limited to courses with lower success rates.

5. Department student worker budget has fallen behind department needs due to increases in minimum wage and due to growth in sections of courses that benefit from TAs.

6. Buildings 60, 61, 7 and 11 continue to have insufficient custodial support for day-to-day cleaning. E.g. floors not swept, trash not emptied, stairwells not cleaned, paper towel dispensers empty or broken.

7. There is insufficient evening and weekend support for faculty and students including security, IT, deans, food, custodial services. The division is in the process of instituting changes to increase division admin and dean support for night classes.

**Critical Decisions Made by Unit:** 1. We have added sections in ANAT 10A and 10B, ANTH 5, BIOL 4 and 20, MICR 22, PUBH 24, 26, 28 and 29 based largely on enrollment demand data. Our ability to add further is nearly space-limited.

2. We plan to continue offer courses in our new public health degree at 2 per semester initially, with one required and one elective. We are offering additional sections of PUBH 24 online this Summer and next Spring to help the new Public Health degree program become established and to add to the pool of students eligible for the new courses in the PUBH degree.

3. Bio 15 enrollment has been declining. We have reduced from 7 to 6 sections.

4. We plan to offer Zoology as soon as it has been fully approved. This will put increased demand on our lab space.

**Notable Achievements for Theme A: To Advance Academic Excellence and Student Achievement:** 1. The Biology department hired 1 new full-time faculty member, Xavier (Anthony) Lopez.  
program.

2. Student Ray Miranda, who transferred to Cal Poly, was accepted to the NSF REU (research experience for undergraduates) program at MIT for this summer.

3. Carmen Rexach was named a Women's Leader in Medicine by American Medical Students Association.

**Notable Achievements for Theme B: To Support Student Access and Success:** 1. Caduceus pre-health professions conference had over 800 attendees.

2. Beta Meyer has served as STEM center coordinator. Biology faculty contributed to the STEM center which serves TK students per week division-wide. TK participate in the coaching program.

**Notable Achievements for Theme C: Secure Human, Technological, & Financial Resources:** We hired Xavier Lopez to teach non-major's general biology, full-time.

**Notable Achievements for Theme D: To Foster an Atmosphere of Cooperation and Collaboration:** 1. Dr. Deborah Borocho Discovery Day has 173 enrolled elementary school students and their families with 17 remaining spaces for day of event enrollees.

2. Wildlife Sanctuary Earth Day events had over 120 attendees.

3. EAGLE student club co-sponsored a sustainability fair with Energize Colleges.

4. EAGLE club won second place in join-a-club.

5. Caduceus club provided a suturing clinic to Chapman University Health Professions Conference.

6. NAISA student club won first place for Earth Day/President's sustainability awards.

7. School outreach group for health careers had about 225 attendees.

8. Diana Churchill co-authored a final grant report to the Save Our Seas Foundation summarizing the outcomes of research funded by a grant studying food web ecology in sharks and rays.

9. Frances Borella won first place in Mt. SAC writers weekend writing contest.

10. Exploratorium and Meek Collection are open to the public the first Friday of every month. These facilities were also used in high school outreach programs.

**Contributors to the Report:** David Mirman  
Cindy Anderson  
Frances Borella

Chris Briggs  
 Alison Chamberlain  
 Diana Churchill  
 Mark Cooper  
 Tyler Flisik  
 Karyn Kakiba-Russell  
 Janine Kido  
 Betsy Lawlor  
 Stephanie Lee  
 Jennifer MacDonald  
 Beta Meyer  
 Loni Nguyen  
 John Norvell  
 Virginia Pascoe  
 Craig Petersen  
 Melissa Presch  
 Tim Revell  
 Carmen Rexach  
 Naluce Ito Rocha Santana  
 Sherry Schmidt  
 Sarah Scott  
 Cindy Shannon  
 Carola Wright

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
<p><b>Academic excellence</b> - Maintain quality of instruction as the department makes use of new facilities (including the Meek collection, exploratorium, Greenhouse, expanded Wildlife Sanctuary, Biology museum) and responds to enrollment pressures.  <b>Status:</b> Active  <b>Goal Year(s):</b> 2016-17, 2017-18  <b>Date Goal Entered (Optional):</b> 09/01/2016</p>	<p><b>In Progress</b> - change signage at bus pick up area by PAC  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p> <hr/> <p><b>In Progress</b> - The college lacks a college hour.  <b>Lead:</b> Chris Briggs  <b>Planning Unit Priority:</b> Low</p> <hr/> <p><b>In Progress</b> - digital projector lightbulbs and replacement of aging projectors including 11-2105  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p> <hr/> <p><b>In Progress</b> - Faculty computer replacements</p>	

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
	<p><b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High  <b>In Progress</b> - maintenance of projectors and digital projector wiring  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - 21 GIS software licenses  <b>Lead:</b> Betsy Lawlor  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - 2 ergometric exercise bicycles  <b>Lead:</b> Virginia Pascoe/  <b>Planning Unit Priority:</b> Low</p>	
	<p><b>In Progress</b> - signage discourage drop offs in small faculty parking lot  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - Bio 1 adjunct training  <b>Lead:</b> Tim Revell/Kar  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - building 7 restroom fans not working adequately  <b>Lead:</b> Betsy Lawlor  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - building 60 projector screens not well mounted and can fall off  <b>Lead:</b> Deidre Vail  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - There needs to be an easy way to share large files with students and with other faculty through the portal.  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> Medium</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 100            CANVAS allows 3 GB files (05/30/2018)</p>
	<p><b>In Progress</b> - Decide who is</p>	

Unit Goals	Resources Needed	Where We Make an Impact: Closing the Loop on Goals and Plans
	<p>responsible for cleaning building exteriors</p> <p><b>Lead:</b> David Mirman</p> <p><b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - Fish and Wildlife license budget</p> <p><b>Lead:</b> Cindy Shannon</p> <p><b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - improve wi-fi quality in all 4 NSD buildings and added to the Wildlife Sanctuary.</p> <p><b>Lead:</b> David Mirman</p> <p><b>One-Time Funding Requested (if applicable):</b> 12000</p> <p><b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - taxidermy budget</p> <p><b>Lead:</b> Cindy Shannon</p> <p><b>One-Time Funding Requested (if applicable):</b> 1000</p> <p><b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - surgical lighting for cadaver lab</p> <p><b>Lead:</b> Carmen Rexach/</p> <p><b>One-Time Funding Requested (if applicable):</b> 3000</p> <p><b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - increased supply budgets for Biology, HT, Anth, and cadaver</p> <p><b>Describe Plans &amp; Activities</b></p> <p><b>Supported:</b> Cadavers have increased in cost to 4265, so that budget should be augmented to 8530 from 8000.</p> <p><b>Lead:</b> David Mirman</p> <p><b>One-Time Funding Requested (if applicable):</b> 16000</p> <p><b>Planning Unit Priority:</b> High</p>	
	<p><b>Completed</b> - Adjunct mentor release</p>	<p><b>Reporting Year:</b> 2016-17</p>

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
	<p>time  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> Medium</p> <p><b>In Progress</b> - Grounds plantings  <b>Lead:</b> Mark Cooper  <b>Planning Unit Priority:</b> Medium</p>	<p><b>% Completed:</b> 50  We received release time starting Spring 2017. Our adjunct mentor has developed a web resource to supplement adjunct orientation which has now entered beta testing. Adjunct mentor and chair reviewed NSD orientation and have given feedback to the dean. (06/22/2017)</p>
	<p><b>In Progress</b> - Have a back-up way to print if department printer goes down  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> Medium</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 100  Karen Long says IT has a back up printer (05/31/2018)</p>
	<p><b>In Progress</b> - New lab rooms for Microbiology, Physiology, Organismal biology and lecture classrooms more urgently, possibly Anatomy and Biology  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - Improved custodial support for science complex  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - new lecture classrooms  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	
	<p><b>Completed</b> - Full-time faculty member to teach major's biology  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2016-17  <b>% Completed:</b> 100  Diana Churchill has been hired for Fall 2017. She will be teaching Bio 4. Bio 4 FT/PT ratio improved from 33% to 64% (Fall to Fall). Also we added one section of Bio 4 for Fall 17 vs. Fall 16. (06/22/2017)</p>
	<p><b>In Progress</b> - department chair clerical support  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 100  Carole Stevens has been hired to support HT program director, Biology chair, and other building 60 chairs. (05/30/2018)</p>

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
	<p><b>In Progress</b> - NSD clerical support  <b>Lead:</b> David Mirman  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 75  Hiring of third admin asst Carole Stevens (05/31/2018)</p>
	<p><b>In Progress</b> - Additional full-time faculty to teach non-major's general biology. We have not supported the growth in Bio 1 fully. We have a pending retirement mid-year next year in Bio 1.  <b>Lead:</b> David Mirman  <b>Type of Request:</b> Staffing  <b>Planning Unit Priority:</b> High  <b>What would success look like and how would you measure it?:</b> 60% of sections taught by full-time faculty in Bio 1</p>	
	<p><b>In Progress</b> - Document cameras for three Bio 1 lab rooms and 7-1121.  <b>Type of Request:</b> Equipment - new  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - Two mini-trans blot apparatus for Western blots  <b>Describe Plans &amp; Activities</b>  <b>Supported:</b> \$1000  <b>Type of Request:</b> Equipment - replacement/upgrade  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - Saggital eye model  <b>Lead:</b> Beta Meyer  <b>One-Time Funding Requested (if applicable):</b> 400  <b>Type of Request:</b> Equipment - new  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - Somso torso model with blood vessels, organs, and muscles.  <b>Lead:</b> Beta Meyer  <b>One-Time Funding Requested (if applicable):</b> 5250</p>	



Unit Goals	Resources Needed	Where We Make an Impact: Closing the Loop on Goals and Plans
	<p><b>Type of Request:</b> Equipment - new  <b>In Progress</b> - color coded human skull  <b>Lead:</b> Beta Meyer  <b>One-Time Funding Requested (if applicable):</b> 750  <b>Type of Request:</b> Equipment - new  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - 17 microscopes to complete update of Microbiology set of microscopes  <b>Lead:</b> Cindy Anderson  <b>One-Time Funding Requested (if applicable):</b> 30000  <b>Type of Request:</b> Equipment - replacement/upgrade  <b>Planning Unit Priority:</b> Medium</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 75            These were included in this year's instructional equipment, but they have not been received yet. (05/31/2018)</p>
	<p><b>In Progress</b> - Obtain full-time hire to replace Deidre Vail's position. Deidre retired.  <b>Type of Request:</b> Human Resources  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 100            Xavier Lopez has been hired to teach Bio 1 full-time starting in the Fall. (05/31/2018)</p>
	<p>improved handicap access to 7 building  <b>Type of Request:</b> Facilities  <b>Planning Unit Priority:</b> Medium</p>	
	<p>Install door between 7-1205 and 7-1209 and another between 7-1209 and 7-1211  <b>Type of Request:</b> Facilities  <b>Planning Unit Priority:</b> High</p>	
	<p>Hot water for building 60  <b>Type of Request:</b> Facilities  <b>Planning Unit Priority:</b> Medium</p>	
	<p>Replace paper towel dispensers in building 60 with a better model. The current models easily break, making paper towels less available and</p>	

*Unit Goals*

*Resources Needed*

*Where We Make an Impact: Closing the Loop on Goals and Plans*

requiring custodial support to fix/maintain.  
**Type of Request:** Facilities  
**Planning Unit Priority:** Medium  
**Full Funding Requested** - Condor skeleton model for museum/Biology 2.  
**Lead:** Mark Cooper  
**One-Time Funding Requested (if applicable):** 1800  
**Type of Request:** Instructional Equipment  
**Planning Unit Priority:** Medium

**Full Funding Requested** - DNA sequencer for bio 34L, possibly Bio 8, 8 and Micro 1  
**Lead:** David Mirman  
**Type of Request:** Instructional Equipment  
**Planning Unit Priority:** Low

**Full Funding Requested** - class set of dissecting microscopes for Biology 2  
**Lead:** Mark Cooper  
**One-Time Funding Requested (if applicable):** 13030  
**Type of Request:** Instructional Equipment  
**Planning Unit Priority:** Medium

**Full Funding Requested** - Antibiotic disc dispenser replacements for Micro 1, Micro 22  
**Lead:** Chris Briggs  
**One-Time Funding Requested (if applicable):** 2300  
**Type of Request:** Instructional Equipment  
**Planning Unit Priority:** High

**Full Funding Requested** - Class set of micropipeters for Bio 8 and Bio 34L.

*Unit Goals*

*Resources Needed*

*Where We Make an Impact: Closing the Loop on Goals and Plans*

**Lead:** Carola Wright and David Mirman

**One-Time Funding Requested (if applicable):** 2000

**Type of Request:** Instructional Equipment

**Planning Unit Priority:** High

**What would success look like and how would you measure it?:** Would reduce students needing to wait and take turns due to currently having only one of each size pipeter per table.

**Full Funding Requested -** Eppendorf tube microcentrifuge for Bio 8 and Bio 34L.

**Lead:** Carola Wright and David Mirman

**One-Time Funding Requested (if applicable):** 3500

**Type of Request:** Instructional Equipment

**Planning Unit Priority:** Low

**Full Funding Requested -** Increased student worker budget for Meek Museum/Exploratorium

**Lead:** Mark Cooper

**Type of Request:** Staffing

**Planning Unit Priority:** High

**Full Funding Requested -** Electronic kiosks for Meek

museum/Exploratorium

**Lead:** Mark Cooper

**One-Time Funding Requested (if applicable):** 15000

**Type of Request:** Instructional Equipment

**Planning Unit Priority:** Medium

**Full Funding Requested -** Half-time museum tech to keep museum and

Unit Goals	Resources Needed	Where We Make an Impact: Closing the Loop on Goals and Plans
	<p>exploration center open more, supervise student workers, help update and develop and rotate exhibits.  <b>Lead:</b> Mark Cooper  <b>On-Going Funding Requested (if applicable):</b> 50000  <b>Type of Request:</b> Staffing  <b>Planning Unit Priority:</b> Medium</p>	
<p><b>Learning styles and tech</b> - To address the needs of students with different learning styles by integrating models, technology, specimens, etc. into our courses as appropriate.  <b>Status:</b> Active  <b>Goal Year(s):</b> 2016-17, 2017-18  <b>Date Goal Entered (Optional):</b> 09/01/2016</p>	<p><b>Completed</b> - Spectrophotometer than can detect DNA (can go down to 200 nm)  <b>Lead:</b> Carmen Rexach  <b>One-Time Funding Requested (if applicable):</b> 6828  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2016-17  <b>% Completed:</b> 100  Bio 34L students were able to quantify the DNA they isolated in the DNA quantification lab topic. Bio 34L students were able to verify they had DNA isolated before performing PCR in a different lab. (06/21/2017)</p>
	<p><b>In Progress</b> - Hallway seating in building 60 (of allowed by fire code) or more outdoor seating in NSD complex/ courtyard  <b>Lead:</b> Chris Briggs  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - portable ultrasound machine  <b>Lead:</b> Carmen Rexach  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress</b> - 3-D printer  <b>Lead:</b> Betsy Lawlor  <b>Planning Unit Priority:</b> Medium</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 100  This equipment is now available through the Maker space. (05/31/2018)</p>
	<p><b>In Progress</b> - digital slide scanner  <b>Lead:</b> Melsisa Presch  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress</b> - Replace classroom computers in 7-1121 and 60-2506  <b>Lead:</b> David Mirma  <b>One-Time Funding Requested (if applicable):</b> 27500</p>	

*Unit Goals*

*Resources Needed*

*Where We Make an Impact: Closing the Loop on Goals and Plans*

**Planning Unit Priority:** High  
**In Progress** - Replace classroom computers (for instructors) desktops 7-1104, 1120, 12105, 1209, laptops 60-2503, 2511, 2515, 2620  
**Lead:** David Mirman  
**One-Time Funding Requested (if applicable):** 7600  
**Planning Unit Priority:** High

**In Progress** - Process to replace classroom computers sets, class set needed now for majors biology lab (60-2628)  
**Lead:** David Mirman  
**One-Time Funding Requested (if applicable):** 16450  
**Planning Unit Priority:** High

**In Progress** - additional iClicker sets  
**Lead:** Cindy Anderson  
**One-Time Funding Requested (if applicable):** 3000  
**Planning Unit Priority:** Low

**In Progress** - Some doors of buildings 60 and 61 do not automatically open in the morning  
**Lead:** David Mirman  
**Planning Unit Priority:** High

**In Progress** - increase department student worker budgets for Anth, Bio, Meek and Wildlife Sanctuary  
**Lead:** David Mirman  
**Planning Unit Priority:** High

**In Progress** - Increase funding for SI program  
**Lead:** David Mirman  
**Planning Unit Priority:** High

**In Progress** - HT program needs updated electronic brochure, newsletter, and NSH career brochure

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
	<p><b>Lead:</b> Jennifer MacDonald  <b>Planning Unit Priority:</b> Medium  <b>In Progress -</b> Ag department obtain chipper/ shredder  <b>Lead:</b> Craig Petersen  <b>One-Time Funding Requested (if applicable):</b> 30000  <b>Planning Unit Priority:</b> Low</p>	
	<p><b>In Progress -</b> clerical support for annual pre-health conference  <b>Lead:</b> Carmen Rexach  <b>Planning Unit Priority:</b> Medium</p>	
	<p><b>In Progress -</b> Student workers for Meek collection  <b>Planning Unit Priority:</b> High</p>	
	<p><b>In Progress -</b> Meek collection website  <b>Lead:</b> Mark Cooper  <b>Planning Unit Priority:</b> Medium</p>	
	<p>Improve classroom projectors, such as with BrightLink by Epson  <b>Type of Request:</b> Equipment - replacement/upgrade  <b>Planning Unit Priority:</b> Low</p>	
	<p><b>Full Funding Requested -</b> Class set of MacAir laptops for physiology labs, Anat 10B and Anat 36, because of compatibility issues with current PC computers used for the iWorks system. 16 student computers, 1 instructor computer.  <b>Lead:</b> Alison Chamberlain  <b>One-Time Funding Requested (if applicable):</b> 23000  <b>Type of Request:</b> Instructional Equipment  <b>Planning Unit Priority:</b> High  <b>What would success look like and how would you measure it?:</b></p>	

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
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Students can conduct labs without compatibility issues preventing the from doing some of the experiments

**Anatomy success** - Increase student success in our lower performing classes: Anat 10A and Anat 35.  
**Status:** Active  
**Goal Year(s):** 2016-17, 2017-18  
**Date Goal Entered (Optional):** 09/01/2016

**In Progress** - Anatomy cadaver training  
**Lead:** Carmen Rexach/  
**Planning Unit Priority:** High

**In Progress** - 2 exploded skulls for Anat 10A, Anat 35  
**Lead:** Melissa Presch  
**One-Time Funding Requested (if applicable):** 16000  
**Planning Unit Priority:** Medium

**In Progress** - Obtain 6 dissecting microscopes for Anatomy 35 lab  
**Lead:** Melissa Presch/A+P  
**One-Time Funding Requested (if applicable):** 3600  
**Planning Unit Priority:** High

**In Progress** - Anatomy labs too cold, air blowing at 52F  
**Lead:** Melissa Presch/  
**Planning Unit Priority:** Medium

LED screens for Anatomy labs to improve the image quality of what students see, especially for microscopy.  
**Type of Request:** Equipment - replacement/upgrade  
**Planning Unit Priority:** High

**In Progress** - Microscope camera to replace old unit  
**Lead:** Melissa Presch  
**One-Time Funding Requested (if applicable):** 14400  
**Type of Request:** Equipment - replacement/upgrade

**Reporting Year:** 2017-18  
**% Completed:** 100  
 Item has been obtained, students can continue to view digital projections of slides in both lab rooms. (05/31/2018)

**Full Funding Requested** - Class sets

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
	<p>of Anatomy models to replace cat dissections in Anatomy 35.</p> <p><b>Describe Plans &amp; Activities Supported:</b> Allow students to continue to learn Anatomy in lab without cats. Cats have become nearly unavailable. There will be an ongoing savings of \$7,000/year.</p> <p><b>Lead:</b> Melissa Presch</p> <p><b>One-Time Funding Requested (if applicable):</b> 150000</p> <p><b>Type of Request:</b> Instructional Equipment</p> <p><b>Planning Unit Priority:</b> High</p> <p><b>Full Funding Requested -</b> Cadaver gurney</p> <p><b>Lead:</b> Carmen Rexach</p> <p><b>One-Time Funding Requested (if applicable):</b> 2700</p> <p><b>Type of Request:</b> Instructional Equipment</p> <p><b>Planning Unit Priority:</b> Medium</p>	
<p><b>Basic skills -</b> Improve student instruction in basic skills for success in the sciences, for example by supporting students through the STEM center, possibly by resurrecting Bio 50.</p> <p><b>Status:</b> Active</p> <p><b>Goal Year(s):</b> 2016-17, 2017-18</p> <p><b>Date Goal Entered (Optional):</b> 09/01/2016</p>	<p><b>Partial Funding Requested -</b> budget for STEM center for student workers, coaches, etc.</p> <p><b>Lead:</b> Beta Meyer</p> <p><b>Type of Request:</b> Staffing</p> <p><b>Planning Unit Priority:</b> High</p> <hr/> <p><b>Partial Funding Requested -</b> Budget for supplies for STEM center for markers and other incidentals.</p> <p><b>Type of Request:</b> Instructional Supplies</p> <p><b>Planning Unit Priority:</b> High</p> <hr/> <p><b>No Funding Requested -</b> Approval to offer Bio 50 again</p> <p><b>Lead:</b> Loni Nguyen</p> <p><b>Planning Unit Priority:</b> Medium</p>	



<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
<p><b>Anthropology</b> - To prepare Anthropology students with knowledge and skills needed for success, especially in transferring to 4-year Anthropology degree programs.  <b>Status:</b> Active  <b>Goal Year(s):</b> 2016-17, 2017-18  <b>Date Goal Entered (Optional):</b> 09/01/2016</p>	<p><b>In Progress</b> - Anth 1 lab adjunct faculty training  <b>Planning Unit Priority:</b> Medium</p> <hr/> <p><b>In Progress</b> - GIS software training  <b>Lead:</b> Betsy Lawlor  <b>Planning Unit Priority:</b> Low</p> <hr/> <p><b>In Progress</b> - Archaeology shed for Anth 4  <b>Lead:</b> Betsy Lawlor  <b>One-Time Funding Requested (if applicable):</b> 3500  <b>Planning Unit Priority:</b> High</p> <hr/> <p><b>In Progress</b> - Develop AAT degree in Anthropology  <b>Planning Unit Priority:</b> High</p> <hr/> <p><b>Full Funding Requested</b> - Exploded skull for Anthropology 1L  <b>Lead:</b> Frances Borella  <b>One-Time Funding Requested (if applicable):</b> 1700  <b>Type of Request:</b> Instructional Equipment  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 75  AAT Anth has been submitted to EDC. (05/31/2018)</p> <hr/>
<p><b>Histotechnology</b> - To offer exemplary training of entry level histotechnicians thereby helping California histology industry which currently suffers from an insufficient number of histotechnicians.  <b>Status:</b> Active  <b>Goal Year(s):</b> 2016-17, 2017-18  <b>Date Goal Entered (Optional):</b> 09/01/2016</p>	<p><b>In Progress</b> - HT accreditation budget  <b>Lead:</b> Jennifer MacDonald  <b>One-Time Funding Requested (if applicable):</b> 2259  <b>Planning Unit Priority:</b> High</p> <hr/> <p><b>In Progress</b> - Clerical support for HT program  <b>Lead:</b> Jennifer MacDonald  <b>Planning Unit Priority:</b> High</p> <hr/> <p>Develop HT bachelor's degree  <b>Lead:</b> Jennifer MacDonald  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 100  Supporting HT program and HT director is part of the job of new hire Carole Stevens. (05/31/2018)</p> <hr/> <p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 25  We have the program curriculum done. We are working on the COR for the two new courses. We still need the state to</p>

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
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expand the bachelor's offerings to allow us to re-apply to the state. We will need additional lecture space if the program is approved. (05/31/2018)

**Biophilia** - Promote increased biophilia and a more robust scientific literacy among the public.  
**Status:** Active  
**Goal Year(s):** 2016-17, 2017-18  
**Date Goal Entered (Optional):** 09/01/2016

**In Progress** - Wildlife Sanctuary irrigation system  
**Lead:** Craig Petersen  
**Planning Unit Priority:** High

**In Progress** - Wildlife Sanctuary Technician  
**Lead:** Craig Petersen  
**Planning Unit Priority:** High

**In Progress** - New Meekmuseum budget  
**Lead:** Mark Cooper  
**One-Time Funding Requested (if applicable):** 1000  
**Planning Unit Priority:** High

**Completed** - Repair Wildlife Sanctuary sink hole  
**Lead:** Craig Petersen  
**Planning Unit Priority:** High

**Reporting Year:** 2016-17  
**% Completed:** 100  
 The safety hazard has been eliminated. The new bridge looks great. The facility was shown off to the public at the "5 decades of nature education" celebration. (06/22/2017)

**In Progress** - SAFETY HAZARD Wildlife Sanctuary fencing  
**Lead:** Craig Petersen  
**Planning Unit Priority:** High

**In Progress** - Plant specimens for expanded Wildlife Sanctuary including new desert habitat area.  
**Lead:** Craig Petersen  
**Type of Request:** Facilities  
**Planning Unit Priority:** High

**In Progress** - New signage for Wildlife Sanctuary gates  
**Lead:** Craig Petersen  
**Type of Request:** Facilities  
**Planning Unit Priority:** High

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
<p><b>Public Health</b> - Develop certificate and/or degree in public health.  <b>Status:</b> Active  <b>Goal Year(s):</b> 2016-17, 2017-18  <b>Date Goal Entered (Optional):</b> 09/01/2016</p>	<p><b>In Progress</b> - Better soap dispensers for building 60 labs  <b>Lead:</b> Donna Lee  <b>Planning Unit Priority:</b> Low</p> <hr/> <p><b>Completed</b> - Develop transfer degree and AS degree in Public Health  <b>Lead:</b> Carmen Rexach</p> <hr/> <p><b>Full Funding Requested</b> - Promotion of new Public Health degree.  <b>Lead:</b> Carmen Rexach  <b>Type of Request:</b> Marketing  <b>Planning Unit Priority:</b> High</p>	<p><b>Reporting Year:</b> 2016-17  <b>% Completed:</b> 75  Both degrees have been EDC approved. Chancellor's office has approved the AS degree. We are awaiting chancellor's office approval of the transfer degree. Two new courses for the degrees have been scheduled for Fall. (06/22/2017)</p> <hr/>
<p><b>Assessment</b> - Continue assessment of course SLOs for all courses in the department, on the college's schedule.  <b>Status:</b> Active  <b>Goal Year(s):</b> 2016-17, 2017-18  <b>Date Goal Entered (Optional):</b> 09/01/2016</p>	<p><b>In Progress</b> - Bio 50 student success data  <b>Lead:</b> Loni Nguyen  <b>Planning Unit Priority:</b> Medium</p>	
<p><b>Outreach and career education</b> - Support the TPI Debbie Day science fair, and Caduceus Pre-Health professions conference.  <b>Status:</b> Active  <b>Goal Year(s):</b> 2016-17, 2017-18  <b>Date Goal Entered (Optional):</b> 09/01/2016</p>		
<p><b>Adjunct mentoring</b> - Improve orientation, training and mentoring of adjunct faculty. For example, institution of annual anatomy training program to include proper use and care of the cadavers.</p>	<p><b>Completed</b> - Obtain adjunct coordinator position.</p>	<p><b>Reporting Year:</b> 2017-18  <b>% Completed:</b> 100  Alison Chamberlain has been serving in this position this year. Online resources have been completed and made available to adjunct faculty. (05/31/2018)</p> <hr/> <p><b>Reporting Year:</b> 2016-17</p>

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
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**Status:** Active  
**Goal Year(s):** 2016-17, 2017-18  
**Date Goal Entered (Optional):**  
 09/01/2016

**% Completed:** 50  
 Mentor position was obtained in Spring 2017. Online resources for orientation and reference were developed and are now in beta testing. Feedback to NSD was provided on NSD orientation process and document. (06/22/2017)