

# CSU Statewide Meeting for Computing and Technology Discipline Council (formerly CS/IS/SE)

Friday, October 27, 2017

## Introductions

## Previous meeting minutes

### Statewide legislation of note

SB 412 – 2 & 4 year pledges

Pledges happening at Chico, Bakersfield, Stanislaus

Priority registration - squeezing out other students?

Stanislaus does two-pass registration

Law doesn't guarantee fee waiver

State support of summer classes would greatly help graduation (time to graduation)

Graduation Initiative (GI) 2025

Northridge pays for last summer out of graduation initiative finding

Stanislaus pays for one final summer class to finish degree

CI has also discussed summer support

Chico gave stipend for summer courses

GE & Transfers - come back after Executive Order discussions

### EO 1100 & EO 1110 – Ivona (Chair of chairs for CSU Mathematics discipline council)

Placement changes for incoming students

ELM eliminated

ELM cost \$2 million statewide plus bureaucracy costs

New placement method: SAT, high school math (GPA + courses)

Systemwide: 50% math remediation now

Proposed placements would put 1/3 in remediation

Handout covers Groups

Group A – Ready for college-level math (same as ELM-exempt or passing ELM now)

Group B – Needs some math remediation (same as needing 1 remedial course now)

Group C – Needs the most math remediation (same as needing 2 remedial courses now)

Calculus readiness test still allowed

Math Council advocating ALEKS or similar placement test system that allows computer-based learning at home with final proctored exam for Group A & B students

Systemwide: 80% passed remedial math while <50% passed first college math course

One year to move from Group C to Group A

LD GE course - B4 quantitative reasoning

would only require Algebra I instead of current Algebra II / Intermediate Algebra

Prereqs for freshman courses

Recommend Group A or B

Still finalizing Group placement with CO

Quantative Reasoning Taskforce has report on B4 course requirements

### GE & CS

some campuses trying to claw back CS courses into B4

originally CS courses were in E (progr.) or D (social issues in computing)

advocate to keep in those areas

has to be fought at campus level  
each campus is different  
CO accepts it as long as GE SLOs are still met

### **Roundtable – Started with IS / Business programs, then CS / Engineering programs**

David @ Northridge IS  
enrollments up  
184 majors 18 minors  
coming from Accounting mostly  
UD class sizes 40-50  
Grad class sizes 20-30  
Starting new IS GE class  
~900 students in mega, hybrid class  
Hiring: 1 associate @ 115  
1 retired & 1 left  
3 TT, one 3/4 TT  
two IS faculty in administration  
5 lecturers  
funding from large class sizes  
IS has two tracks  
adding 3 more tracks CIT, Health Sciences, Accounting  
Starting an M.S. program for people wanting CPA  
Big push for data analytics: Data Jam contest  
Chairs usually fully released  
Faculty teach 9 WTU each term

Michael @ Long Beach IS  
enrollment 300  
class size 35+ for UD  
faculty hiring  
1 IS each year  
No one has retired yet  
budget is tight  
CSULB has chair advisory council  
each college has one representative  
very effective channel w/ Provost  
different assigned release across colleges  
New programs: MS in IS  
self-support program  
Need more faculty & budget  
~15 TT ~30 lecturers  
covers statistics too  
plus Intro to IS  
12-mth chair appointment  
2 course release per term  
Faculty teach 9 WTU per term

Tom @ San Jose State IS  
renamed to "school" but still in Business

grown 33% in recent years, 400 FTES  
9 TT, 10-12 part-time  
has gotten more diverse, more URM & women  
    up to 25% women  
    more 20-24 yr old students  
class cap is 45 due to room size  
no retirements lately  
recruiting 1 asst prof ~ 100-105k  
    challenging due to cost of living  
    good prospects w/ spouses in Silicon Valley  
    failed last year in search  
budget is okay  
    new dean noted old dean spent part of endowment on operating expenses  
using Salesforce platform in into courses  
    going really well, students really responding well to course  
have a philanthropic effort to fund scholarships & have CIOs teach part-time  
adding electives in cyberrisk management & big data management/analytics  
campus has also grown like crazy  
trying to get class cap down because room is packed w/ 45. Working w/ dean  
teaching load is 3 courses per term  
    chair is 12 mth & does not teach

Kwan @ Fresno           IS & Decision Science  
Added data analytics & cybersecurity options  
    partnering w/ department w/ DHs grant  
Hired 1 in cybersecurity @110k  
    2 others had offers but turned down  
    also get summer stipend for 3 yrs, moving expenses, & small startup  
110 IS & 10 DS students  
class site: 40 cap, smaller than room cap  
All faculty except Kwan retired over last few years  
    Lost 2 new hires out of 8 new hires for last few years  
Half-time, academic year chair position  
9 WTU load for faculty  
Summer teaching options for more pay  
Accelerated BS program to finish UD faster w/ summer courses  
Data analytics option w/ Accounting  
    SAP initiative, auditing, data analytics

Barry @ CalPoly SLO    IS concentration  
104 graduated last year, increase over past  
seeing increases: 234 in concentration  
cap for classes: 36 (30 grad, 44 intro)  
43% female  
5 FT, just hired 1 @ 115K  
    9 WTU teaching load  
    summer grant  
1 adjunct, 3-5 part-time  
3 just FERPed, 2 moved to administration  
money held at college-level

new Masters in Business Analytics  
Accounting asking for more IS classes  
cloud initiative : AWS  
accepted more students than anticipated this year  
Academic year for chair, 1 class per term, summer stipend  
Other disciplines want IS classes  
    also industry partners want this  
Having large waitlists on some classes  
Q2S has stalled  
    faculty have strongly rejected it  
    no major push-back at state level

David @ Chico IS

Previous chair just retired  
240 majors between two options  
    not growing, stable  
Degree is stand-alone from general Business degree  
Planning to add data analytics  
Hired 1 faculty last year w/ late search ~104k  
    all international applicants (over 60)  
    summer stipend for 3yrs for new hire + startup fund (~10k)  
8 TT, 7 lecturers (2 FTL)  
    7-9 part time lecturers for specific course  
12 month 80% chair  
dean is raising money for complete private-funded building  
LD class size: 35  
UD class size: 44 room cap, 35 for specialized classes  
Starting new class in Decision Analysis  
    required for all business students  
    will need 8-10 sections per semester  
IT staff often teach 1 course as part-timer  
    very good people, lots of student demand  
Need more faculty - Provost makes decision

Frank @ San Bernardino IS

Offers BA in Admin - IST, Business Analytics, Supply Chain & Logistics  
MBA cybersecurity & one other option  
BS IST also as stand-alone  
    Public Admin, Cybersecurity, CIS, Intelligence  
Also MS IST  
Q2S in process for 2020  
    conversion is major issue  
Enrollment: 270 IST, 50 Supply, 40 Analytics  
11 TT, 1 FTL  
    hired 1 last year but one retired  
    hired from Chico CS  
    ~100k, summer stipend for 3 yrs (8500)  
2-3 courses per term teaching load (6-9 WTU)  
hiring 2 this year  
class size: 210 lect, 30 lab service for one course

60 lect stats & supply chain service  
25-30 IST LD  
40 IST service w/ lab  
30 UD  
28 grad  
push towards self-support / professional fees  
MS IST will start in 2018  
charges professional fees  
7 of 10 top bottleneck classes at SB in department  
have 52 priority one registration categories  
18 adjuncts  
accreditation prefer terminal degrees & participation in department  
New Provost from Fullerton  
budget based on SFR now  
very difficult to manage  
department has highest SFR in college  
FTES close to 600  
students don't declare major early, so hard to track through major  
12 mth chair contract  
teach 1 course a year  
150 in online MBA program  
self-support program  
traditional MBA is stateside w/ professional fee  
Advisory Board to help shape curriculum for some options

#### Drew Pomona CIS

~900 majors, up from 760 last year  
students not taking summer term  
12 TT, 2 FERP, 3 new, 15-20 adjuncts  
104-108k for new hires  
summer stipend for 2 yrs (10k)  
normal teaching load is 3 courses per term  
New dean  
average dean change every 3.5 years  
Q2S in process  
very challenging  
New programs: add one more track in Business Intelligence under semesters  
Dan also present, former chair, retiring  
Chair is 9 mth appointment, summer 0.5 appointment  
1 course per semester

#### Break for Lunch

Mosen @ Dominguez Hills CS  
Options: BS CS, BA CT, BS IT  
Majors: 300 CS, 240 CT, 50-60 IT  
70 MS CS, grown from 35-40  
350 FTES  
new: MS in cybersecurity is at CO  
class size: 20-50 depending on class

lab courses are lower  
30 grad  
hiring: 2 last year, not successful  
trying for 3 this year  
upper 80s salary range  
20-25K startup  
4 teaching courses is normal (12 WTUs)  
6 TT, 15-18 PTL (6-7 FT equivalent)  
1 retirement a couple years ago  
budget: OE is low  
chair - 2 courses per semester (50%)  
9 mth position (previously 12 mth)  
Teaching load & student lab assistant budget are important issues  
Faculty are writing letters to Provost about teaching load  
(Side discussion on teaching loads)  
SJSU is in discussions with Provost to reduce to 3 courses per term across the campus  
San Marcos is 9 WTU per term and has been for a long time  
Letter from this committee on workload?  
- this field is a lot of work to stay up to date  
- CBA doesn't define WTUs as standard teaching load (Article 20)

Rick @ Northridge CS

Two undergrad programs: 950 CS, 400 CIT  
CIT is new & growing rapidly  
headcount was 600 5 years ago  
class sizes: 28-32 LD  
up to 38 UD  
18-20 grad  
Chair is 12 mth w/ full release  
larger depts have 100% release  
Had auth for 2 hires two years ago  
all turned down due to salary  
offered 87k last year & filled both positions  
In process of getting a new dean  
promised 4-5 positions after new dean hired  
keep changing metric to determine new positions  
15 TT, 4 FERP, 30 PTL  
have had waves of FERP, hard to keep up  
had 95 applications last year  
25k startup  
Issues: no budget to refresh lab computers  
new Provost wants more grants  
no control over students declaring as major  
need more faculty to meet demand  
getting PTL through IEEE & ACM  
60% of FTES being taught by PTL  
Experimenting w/ students bringing own laptops by removing machines from part of some labs  
Teaching is 12 WTU/ semester  
Have 2 WTU lab courses

Art @ San Marcos CS & CIS

Enrollments growing rapidly

30 MS students

grown 300 to 700 FTES in last several years

many class sizes grew to meet demand

TT teach UD courses, adjunct teach LD

9 TT, 3 are new

LD class size 50-60

UD class size 40

Having issues recruiting more to MS CS

1 new hire + 2 roll over from prev. search

growth lines determined by campus committee

salaries 80-82k

startup 40-45k

no summer support or travel

budget has been hurting them

no space, computers not being refreshed

campus took space away & gave to other science dept.

Chair contract – 1 course per semester (of 9 WTU)

9 mth contract

New programs: Kamal Haddad (Vice Provost) pushed engineering

developed Software Engineering program

hope to start by Fall 2018

other program at college level is Electrical Engineering

CIS is also relatively new & take some Business courses

Worked w/ community college about courses & C-ID

Issues: Not enough space

Adjuncts teaching some UD courses

Lab money limited

Server is very slow

No open lab for majors

Lab space is priority only, others can use, not department only

ACM club has lost funding sources and can't host activities like they used to

Have to justify research release (3 WTU) but doesn't have to be publications

could be projects involving students & industry

Master's thesis discussion

0.25 WTU per student at Chico

Channel Islands has thesis class

Northridge can bank WTU for following year

Todd @ Fresno CS

6 TT, 4 FTEF, 4 lecturers (2 FTL, 2 PTL)

400 majors, increasing

MS CS is 55 (down from 71)

class size: 35-60

faculty revolt when class sizes were larger

graders for classes above 48

funded out of OE by department

new dean - supportive of graders

6 deans in 7 years

current one looks to be in for longer tenure  
hired last year: 78-80k Salary  
failed search previously due to salary  
dean supportive of adding faculty particularly to replace prev. retired lines not yet replaced  
currently searching for 2 more hires  
not sure on startup, maybe 25-30k  
12 WTU load normal, but gets 6 WTU per term release  
labs - require laptops & moving away from desktops  
reorganizing some tab spaces to circular tables  
have some specialized machines for specific software or CPUs  
don't require specific IDE or software  
use open source when can  
most core courses have 1.3 WTU labs (activities)  
often have TA do lab  
try to limit to 3 preps per term  
also get MS supervising WTUs  
issue: assigned time for research makes it hard to cover all core classes  
CA Promise program for 4 yr  
2 yr program starting in Spring  
Teaches LD A3 & UD Science Integration for GE  
Adjusting curriculum due to scheduling issues  
difficult to schedule 7 electives w/small faculty  
Considering broadening core & reducing electives  
Frustrated w/ poor math background  
considering splitting discrete martin into two courses to cover more  
Faculty hiring is key issue  
administration will allow then to consider impaction status  
(side discussion on impaction status)  
capacity issues serving all the CS demand  
set GPA / eligibility or limit # of seats  
Chair: 9 mth & 50% release  
TAs for labs - about 8 or so per term  
all grad students, 20hr/ wk max  
some students may do multiple labs  
requires coordination w/ faculty  
Tug-of-war between access & outcomes (SLOs)  
(side discussion on students failing courses)  
repeat rate & effect on time to degree  
variance in GPA by region, particularly high school

Susan @ Sonoma CS

Looking for external reviewer for program review  
BS & minor - stable enrollment  
350 major, 25 minors  
45% women  
just become HSI  
class size: 25 lab, 50 lect LD  
25 lab / 200 lect service  
20-30 UD  
tutoring & lab assistants



7 TT, 1 FERP, 1 FTL, 8 PTL  
1 search, 1 new hire in each of last 3 years  
82k salary  
20k startup  
trouble recruiting lecturers w/ M.S.  
many UD lecturers have only B.S.  
budget not bad, new administration puts money in academic affairs  
tutoring center is campus funded  
lab assistants from dean  
12 WTU teaching load, 2 WTU labs  
Chair gets 50% release, 9 mth position  
also 8 days of summer pay  
Behind on official C-ID articulation  
Issues: majors more than tripled  
lack of new hires until recently  
catching up on other work now that stabilized

ICT transfer model side discussion  
not many campuses present have 2+2 transfer model for ICT

Roger @ East Bay      First gave report from Matt @ East Bay for CS since Matt could not attend  
Following is paraphrased from email from Matt about East Bay CS program:

Enrollment:

Undergrad: ~700 students  
Grad: ~200 students  
Enrollment surged by 30% for the undergrad program in 2016-17.  
Enrollment is up by only 5% this year.  
The campus is seeking impaction for 2019-20.  
CS is vaguely considering impaction for our program as well.  
The grad program receives between 1500-2000 applicants each year.  
We are reducing the size of the grad program to only 100 students in 2018-19.

Class Sizes:

Classes are supposed to be capped at 35 seats for undergrad courses,  
25 for grad courses and lab components.  
Our computer classrooms have only 35 seats and the cap for courses that need these is firm.  
Other courses are often oversubscribed and may have up to 45 students in a pinch

Faculty:

Hiring: We had two faculty searches last year.  
We were able to make one hire in the area of Cloud Computing.  
Salary was \$80k. Startup package was \$20k.  
This year we are again conducting two searches (rollover + new track).  
So far we have only 10 applicants with a deadline of October 31st.  
Our campus has set an earlier hiring cycle schedule.  
Hiring is difficult for us.  
We're competing with Silicon Valley, SJSU, SFSU, Stanislaus and...  
We currently have 10 tenure-track faculty and one FERPer.  
Three are junior faculty. Strong rate of RTP.  
Retirement: Three faculty ended their FERP agreement in spring 2017,  
another unexpectedly retired without FERPing in 2016.

Budget:

We have a new Dean and Associate Dean.  
Budget model is greatly improved from previous years, much more transparent.  
We were budgeted roughly ~85k last year  
    which does not include computer refresh or infrastructure.  
    don't have numbers for 2017-18 yet but expect roughly the same.

Service Compensation: We're on quarters (last year of this).

Teaching load is normally 3/3/3.

Chair gets 2 course releases/quarter so teach 1/1/1.

The Chair position moves to a year-round appointment in 2018.

We also get release for program coordinators

    (3 courses annually for grad, 2 courses for undergrad).

We had to redesign our curriculum for semester conversion in 2017-18.

A good outcome from this is we are now well-aligned.

Our accords with Bay Area CCs are updated.

New Programs:

We'll have totally new programs for semesters starting in fall 2018.

We're still working out some of the kinks, but the programs are approved.

Options/Concentrations were removed from B.S. degree since few students took them.

Our M.S. Networks program has been eliminated for semesters

    has been folded into an option for M.S. CS.

We are also adding several service and GE courses including:

    Computers for Everyone (B4 quantitative)

    Computers and Social Impact (which is approved for Sociology GE).

We're also working with SJSU and SFSU in developing a Health Information Management

    option for Health Science (a minor in CS + data).

There is also a Cybersecurity certificate program coming in 2018.

Issues:

Computer Classrooms and labs are scarce on campus. Roger can discuss.

Hiring is always problematic for us.

We're in a new office space (very nice), but classroom facilities still lag.

Management of internships and cooperative education is becoming a headache.

Other: CS split from Math & CS in 2016.

We will be FINALLY pursuing ABET accreditation in 2019.

Our curriculum has always been aligned with requirements though.

Roger @ East Bay      CE

Most diverse campus in US

Undergoing Q2S - president did not let faculty vote

    4 courses per term have been talked about

Roger is lead for CE program under Engineering department

CE started 2008

138 majors

    admitted 660 students, 66 started this fall

    only about 3 were calculus-ready

No system-level prereq enforcement

    going to be enabled next Fall

Got ABET accredited last year

Having issues attracting & retaining people

    had one just leave in Sept

    3 -> 2 faculty

Hope to have 2 hires next year  
80k for last hire  
20k startup  
class size similar to CS for LD  
20 for UD due to LD pipeline  
CS gets reader for 25+ students (3hr/wk)  
Roger has no release since he is the program coordinator

Cui @ Sacramento CS  
B.S. CS and two minors  
also M.S. in CS & SE  
cosponsor B.S. & M.S. in CE  
enrollments growing last few years  
over 600 FTES  
headcount 1300 (100 is grad)  
over 20 faculty: 16 TT, 3 FERP, 15-20 PTL  
had period of retirements w/ hiring freezes  
been hiring recently to replace  
2 new this year  
class size: 18-25 lab, up to 50 lect for LD  
occasionally 3 labs per lect for LD  
UD 35-40  
Grad 20  
provide graders  
hiring salary: 82k fresh Ph.D.  
15-20k startup  
Chair: 60% release, 12 mth  
no new programs but adding classes

Daisy @ Pomona cs  
940 majors, 100 ms  
14 TT, 50% tenured, 14 PTLs  
2 retired recently  
class size: 35 LD & UD, 25 grad  
asking for more WTUs if go to large class  
grader support for all TT  
Q2S scheduled for next year  
2 WTU grad supervision per year  
budget: OE & EU  
Labs on campus on IT refresh cycle  
One mobile laptop cart for large classrooms  
Salary: 82-85k, 25k startup  
new hires also 50% released  
Chair: 75% released, 9 mth + summer  
Issue: semester conversion  
hiring one new faculty

Kathleen @ Chico EE/CE  
100-110 CE, 30-35 grad  
national trends for demographics

30-75 students per class  
service classes larger  
not hiring currently  
hired one recently @ 80k  
startup < 10k  
release 1st yr same as CBA requires  
7 TT, 3 lecturers, 2 FERP  
Chair: 75% appointment  
Budget: potential MS increase w/o budget  
Issues: went 6 years w/o permanent chair  
Insufficient funds to purchase components for labs

Tyson @ Chico CS  
500 majors  
9 TT, 1 FTL, a couple PTL  
hired one @ 78k w/ 20k startup that includes summer stipend  
50% release 1st yr, CBA release for 2nd yr  
Academic year chair  
Class sizes:  
Previously filed grievance on class size  
LD capped at 60 lect, 30 lab (1.3 WTU lab)  
UD capped at 35  
Starting to get waitlist issues  
quit admitting students to MS to free people up  
One GE course taught by PTLs  
Very hard to find qualified PTLs

Tom @ Stanislaus CS  
300 majors - plateaued  
class size ~30 for LD & UD  
90 GE w/ three 30 labs  
dean retreated to department  
hired last year @ 85K (negotiated)  
10k startup & CBA mandated release time  
Chair: 9 mth, 9 WTU release  
summer stipend from EU (all chairs get it) based on # of summer classes  
CS offers ~6 summer classes, mostly GE  
no new programs  
hiring next year -continuing failed search  
also had resignation from FERP in August  
6 TT, 3 FTL, 3 PTL

Michael @ Channel Islands CS / IT  
4 programs: CS, IT, MS CS, Mechanics starting soon  
MS CS has 60-80, (missed UD majors)  
7 faculty, most are new, 3 FTL, 7 PTL  
hiring this year  
1 FERP  
(missed the starting salary), 15-20k startup

partnerships w/ regional cybersecurity  
class size : 24 (lab size)  
9 mth chair, 50% release

Melissa @ Bakersfield CS / CE / EE

CS three options: Traditional CS, CIS, Information Security

Majors: 300 CS (mostly traditional and CIS), 120 CE, 150 EE

Had only 140-150 CS in 2010/11 before starting ECE programs

Class size: 35 room cap for CS computer labs, 20-24 for most ECE labs

ECE has had 40-48 lecture + two 20-24 labs for several years

Intro to Engineering is 120-140 lecture + multiple 24-30 lab sections

Started doing large lecture with multiple labs for CS this year

50-60 lecture + two 25-30 labs

Still having waitlist issues even with this

GE class not approved under semesters

Previous dean would only allow graders for 70+ class sizes

New dean allows departments to set Instructional Student Assistant policies

Must stay within provided ISA budget (35k for this year)

4 CS TT, 4 ECE TT, 1 CS FERP, 4 FTL, 6-10 PTL

Hiring underway for 1 CS TT, 1 ECE TT, 1 CS FTL

TT salary ~85k w/ 40k start-up

CBA mandated release time

Some recent hires have negotiated up on all of these

TT teaching load 12 WTU, labs are 2 WTU and all run by faculty (no grad program)

Usually 2-3 preps per term

Just completed Q2S in Fall 2016 – very difficult to meet all unit requirements

Aligned all programs to C-ID model curriculum for LD

Having initial ABET accreditation for engineering programs

Site visit scheduled mid-November

New programs: Exploring pros/cons of starting MS CS program in 3-5 years

Budget: OE, EU, and ISA budgets managed by department; Salaries managed by dean/provost

Also F&A from grants, but very small share (approx. 3% of indirects)

OE barely sufficient for standard expenses, nothing for lab refreshes

Most labs outfitted w/ grant or donation money

In discussions to move CS computer lab refreshes to campus budget since >80% utilized

Chair: 9 mth, 50% release, small summer stipend (about 0.5mth equiv)

Issues: Growing numbers of students (space and teaching demands, large waitlists)

Difficulty recruiting faculty

Few qualified UD PTL candidates for CS since very few in Bakersfield have MS CS or SE

Money for lab refreshes / equipment upgrades

Discipline Council

Online tools

Tried Google Group 7 years ago but not many signed up

Trello used by some students

East Bay as potential host next year

Matt is interested according to Roger

SLO could also host according to Barry

Bakersfield also has funding