

From President David Courard-Hauri sent to Senators on September 20, 2017

Senators,

I apologize for sending this so late—I was hoping we might have better information by now, but the numbers below may help to add some context to today’s motion on representation. I did a quick check of representation in Senate from the Senate website. Our archive lists Senate membership back through 2012. The link from 2016-2017 brings up a privacy warning page, and even though it’s probably fine, I never click through warning pages, so this is based on five years of data. I have inserted images of my tables, because they did not seem to be formatting properly over e-mail.

Here is what I got for at-large representation:

	AS	CO	ED	JO	BN	PH	LW
2017	8	1	2	1	0	0	0
2016	9	1					
2015	9	1	0	0	1	1	0
2014	7	1	0	0	1	3	0
2013	10	0	0	1	1	0	0
2012	9	1	0	1	0	1	0

If we take the average number of representatives during that period, add it to the number of dedicated reps, we can compare against Royce’s faculty fractions (in the “expected” column). Those aren’t constant over the time period, but that’s a very small deviation. People look at this in different ways, depending upon how you think about the at large reps, so I have included columns for total representation and the fraction of dedicated reps. (I did the deviations in my head, so apologies if I made a mistake). So, I get:

Unit	Actual Percentage	Proportion of Faculty	Deviation	Percentage of Dedicated Reps	Deviation
AS	57.2	43.6	+13.6	40	-3.6
CO	8.2	4.1	+4.2	10	+5.9
ED	6.4	8.9	-2.5	10	+1.1
JO	7.3	4.5	+2.8	10	+5.5
BN	7.3	16.6	-9.3	10	-6.6
PH	9.1	14	-4.9	10	-4.0
LW	4.5	8.3	-3.8	10	+1.7

If we assume that today's proposal were implemented \*and\* the at-large representation fraction remained constant, the new values would be:

Unit	Expected Percentage	Proportion of Faculty	Expected Deviation	Percentage of Dedicated Reps	Deviation
AS	41.0	43.6	-2.6	26.7	-16.9
CO	6.7	4.1	+2.6	6.7	+2.6
ED	10.1	8.9	+1.2	13.3	+4.4
JO	10.7	4.5	+6.2	13.3	+8.8
BN	10.7	16.6	-5.9	13.3	-3.3
PH	11.7	14	-2.3	13.3	-0.7
LW	9.1	8.3	+0.8	13.3	+5

The deviations are larger in the current system for the total (RMS of 7.0 vs 3.7), but smaller for the dedicated fraction. Of course there is no guarantee that recent at-large patterns will remain consistent.

I hope that helps somewhat for those who like to see numbers.