

Chemistry Faculty Vacancies Replacement Request Presentation
Academic Senate Meeting
November 11th, 2021
by
Jeanette Medina

Request Justification

The current 2 fulltime faculty are scheduled to retire in the academic year 2021-2022. Professor Tricca in Fall 2021 and Professor Medina in Spring 2022.

The Chemistry Department serves a large number of science majors and students who transfer to career technological education programs. The Chemistry Department is highly productive as shown by the 2020-2021 Program Review data (see slides 3-6).

In the of Fall 2021, the Chemistry Department is operating at a fulltime obligation percent of 44.2%.

We believe it is crucial to replace these 2 fulltime vacancies as soon as possible to help the Department maintain its productivity, and ensure the continuity of ongoing projects and planned projects.

Chemistry Department Courses at Glance

Course name and number	Associated Student Goal (not comprehensive)
Elementary Chemistry, CHEM 192	Rad. Tech.; Respiratory Care pre-req.; transfer GE
General Chemistry Sequence, CHEM 210/CHEM 220	Transfer requirement: ASTR, ENG, ENV, PHYS, etc.
Organic Chemistry Sequence, CHEM 231/CHEM 232	Transfer requirement, in addition to above sequence, for many critical infrastructure majors in the Bay Area: BIOL, CHEM, BIOTECH, BIOCHEM, BIOENG, etc. Transfer requirement to Professional Degrees: Dentistry, Medicine, Pharmacy, Veterinary, etc.
Chemistry for Health Sciences, CHEM 410	Pre-req. for critical infrastructure majors: Nursing, Allied Health, Kinesiology, Nutrition, etc.

Fall 2021 Enrollments

CHEMISTRY																		
Course	CRN	PTC	FTEF	Load	Max Enroll	Actual Enroll	Seats Remain	Census Enrolled	Attrition (Census - Actual)	% Fill	% Completion	Waitlist Max	Waitlist Actual	Cancel Date	Start	End	Contract	Faculty
CHEM-192-ZAH	80975	Full Term	0.36	322	30	15	15	19	4	63%	79%	10	0		08/18/21	12/08/21	HH	McIntock, Juleh S.
CHEM-210-OLH	96498	Full Term	0.52	769	45	38	7	43	5	96%	88%	13	4		08/18/21	12/18/21	HH	DeMello, Nicholas C.
CHEM-210-OMH	93323	Full Term	0.52	787	30	40	-10	44	4	147%	91%	11	3		08/18/21	12/18/21	FC	Tricca, Robert E.
CHEM-210-Y1H	92010	Full Term	0.52	433	30	21	9	25	4	83%	84%	11	1		08/18/21	12/08/21	HH	Wilcox, Allan L.
CHEM-210-Y2H	92633	Full Term	0.32	759	30	26	4	27	1	90%	96%	10	0		08/18/21	12/08/21	HH	Wilcox, Allan L.
CHEM-210-YBH	83314	Full Term	0.52	406	30	16	14	24	8	80%	67%	10	0		08/19/21	12/09/21	HH	Wilcox, Allan L.
CHEM-220-OLH	93032	Full Term	0.52	858	30	45	-15	48	3	160%	94%	12	0		08/18/21	12/18/21	FC	Tricca, Robert E.
CHEM-231-OLH	93324	Full Term	0.52	590	30	30	0	33	3	110%	91%	10	0		08/18/21	12/18/21	FC	Medina, Jeanette C.
CHEM-410-OLH	93634	Full Term	0.36	576	30	33	-3	34	1	113%	97%	12	1		08/18/21	12/18/21	FC	Medina, Jeanette C.
CHEM-410-OMH	89926	Full Term	0.36	593	30	34	-4	35	1	117%	97%	11	3		08/18/21	12/18/21	FC	Medina, Jeanette C.
10 SECTIONS			4.52	615	315	298	17	332	34				12					

Significant data:

- The current FT Obligation percent is 44.2%.
- Over half of the Fall 2021 sections are taught by Adjunct Faculty and FT overload.

Spring 2021 Enrollments as of 4/12/2021

CHEMISTRY

Course	CRN	PTC	FTEF	Load	Max Enroll	Actual Enroll	Seats Remain	Census Enrolled	% Fill	% Completion	Waitlist Max	Waitlist Actual	Cancel Date	Start	End	Contract	Faculty
CHEM-192-ZAH	42025	Full Term	0.36	400	30	24	6	24	80%	100%	10	0		01/20/21	05/19/21	HH	McIntock, Juleh S.
CHEM-210-O1H	42881	Full Term	0.32	1,221	40	40	0	42	105%	95%	11	1		01/19/21	05/28/21	FC	Tricca, Robert E.
CHEM-210-OXH	30957	Full Term	0.52	590	40	31	9	33	83%	94%	11	2		01/19/21	05/28/21	FC	Tricca, Robert E.
CHEM-210-YAH	45491	Full Term	0.52	519	30	21	9	30	100%	70%	11	1		01/19/21	05/20/21	HH	Wilcox, Allan L.
CHEM-220-O1H	42525	Full Term	0.52	537	30	29	1	30	100%	97%	10	2		01/19/21	05/28/21	FC	Tricca, Robert E.
CHEM-220-OLH	47029	Full Term	0.52	733	45	35	10	41	91%	85%	10	0		01/19/21	05/28/21	HH	DeMello, Nicholas C.
CHEM-220-OXH	30958	Full Term	0.32	901	30	30	0	31	103%	97%	10	1		01/19/21	05/28/21	FC	Tricca, Robert E.
CHEM-232-OLH	44697	Full Term	0.52	465	30	25	5	26	87%	96%	10	0		01/19/21	05/28/21	FC	Medina, Jeanette C.
CHEM-410-OLH	39612	Full Term	0.36	576	30	31	-1	34	113%	91%	11	2		01/19/21	05/28/21	FC	Medina, Jeanette C.
CHEM-410-OMH	43588	Full Term	0.36	593	30	33	-3	35	117%	94%	10	0		01/19/21	05/28/21	FC	Medina, Jeanette C.
10 SECTIONS			4.32	630	335	299	36	326				9					

Spring 2021 Chemistry Department Performance*

Course Census En..	Success	Success Rate	Retention	Retention Rate	Total FTEF	Total Ftes	Total Wsch	Avg. Total Load	Section Count	Max Enrollment	Fill Rate
325	243	74.8%	273	84.0%	4.32	90.5	2,714	652	10	335	97.0%

*Taken from the 2020-2021 Program Review data packets

Compared to Spring 2021 College Performance*

Course Census En..	Success	Success Rate	Retention	Retention Rate	Total FTEF	Total Ftes	Total Wsch	Avg. Total Load	Section Count	Max Enrollment	Fill Rate
10,717	7,793	72.7%	9,092	84.8%	89.56	1,321.4	39,641	366	392	14,974	71.6%

*Taken from the 2020-2021 Program Review data packets

Planned Projects

- Expand and improve the “take-home” chemistry laboratory kits piloted in Spring 2021 for the CHEM 410 online class to other courses. This initiative supports the teaching of practical laboratory skills required for students entering the Nursing programs. Successful implementation continues in Fall 2021.

This link is provided to students to introduce the contents of the lab kit: <https://youtu.be/lzCOOzAM5H8>



Click on the box to open in browser

- Explore possible course offering schedules to improve student accessibility and course enrollments.

Thank you for your consideration