

College of Science (CSCI)

North Science 135 25800 Carlos Bee Boulevard, Hayward CA 94542

2015-2016 CSCI EETF Assessment Year End Report, June, 2016

[NOTE: Items A, B, C, and D are identical to your Page 2 on your Annual Report for CAPR. Please simply cut and paste from there. Item E is unique to the CSCI EETF.]
A.

who have completed a year-

conclusions. Having close to 90 % of the chemistry and biochemistry majors able to satisfactorily complete the process and identify at least one of their unknowns leads us to believe that student learning objectives in the Organic Chemistry lab are being met.

Comparison to Previous Years

In an on-going effort to improve our students' success in meeting the student learning outcomes, we compare the results of this years' assessment data with previous years. As shown in the following graph and table, the results of this year's lecture assessment is on par with the results from recent years, although not the best that we have achieved. The results of this year's laboratory assessment are slightly lower than last year but still at our goal for demonstrating lab competence.

Results of Capstone Organic Lecture Assessment during 2004 – 2016 for Chemistry and Biochemistry Majors



Results of Capstone Organic Laboratory Assignment during 2004 – 2016 for Chemistry and Biochemistry Majors

Year	# of	# with	% Both	# with at	% At least
	Chem/Biochem	both	Correct	least one	one correct
	Majors	correct		correct	
Sp 2004	18	13	72	17	94
Sp 2005	22	9	41	22	100

Sp 2006	22	18	82	22	100
Sp 2007	12	5	42	10	83
Sp 2008	10	7	70	9	90
Sp 2009	17	10	74	14	95
Sp 2010	25	12	48	21	84
Sp 2011 Sp 2012	26	15	58	23	88
Sp 2012	25	13			

Final Q3	4	22	4	18.2
Final Q4	4	22	13	59.1
Final Q1	5	22	7	31.8
Final Q12	5	22	4	18.2
Final Q7	6	22	12	54.5

prerequisites (1 year of calculus and 1 year of physics with a C-grade or higher). There

	scheme of chemistry.	
f	be able to calculate reaction order from the time dependence on concentration.	Final Question 10
3. I	be able to understand and describe transition state theory.	Final Question 7
1	understand how statistics and probability can be used to develop thermodynamic concepts.	Midterm Question 10
5. I	be knowledgeable about catalysis	Final Question 14

BS Chemistry Major: 4 students

Criteria	Exam question	Number of correct answers*	Percentage
2	Q10	1	25%
3	Q7	2	50%
4	Midterm Q10	2	50%