College of Science (CSCI)
North Science 135
25800 Carlos Bee Boulevard, Hayward CA 94542

2014-2015 CSCI EETF Assessment Year End Report, June, 2015

	EE F F	D C
C B	A K	A

points were earned, the answer was counted as correct.

Winter 2015 BS Biochemistry Majors: 12 students

Goal	Assessment tool	Number of correct answers*	Percentage
1	Q7	4	44%
1	Q8	6	67%
2	Q10	4	44%
3	Q9	4	44%
4	Analysis in lab notebook and report	5	56%
4	MC 5-10	2	22%
5	Q11	2	22%
5	Q12	8	89%
6	Q14	4	44%
6	Q15	2	22%
6	Gel photograph	9	100%
7	Final lab notebook score	8	89%

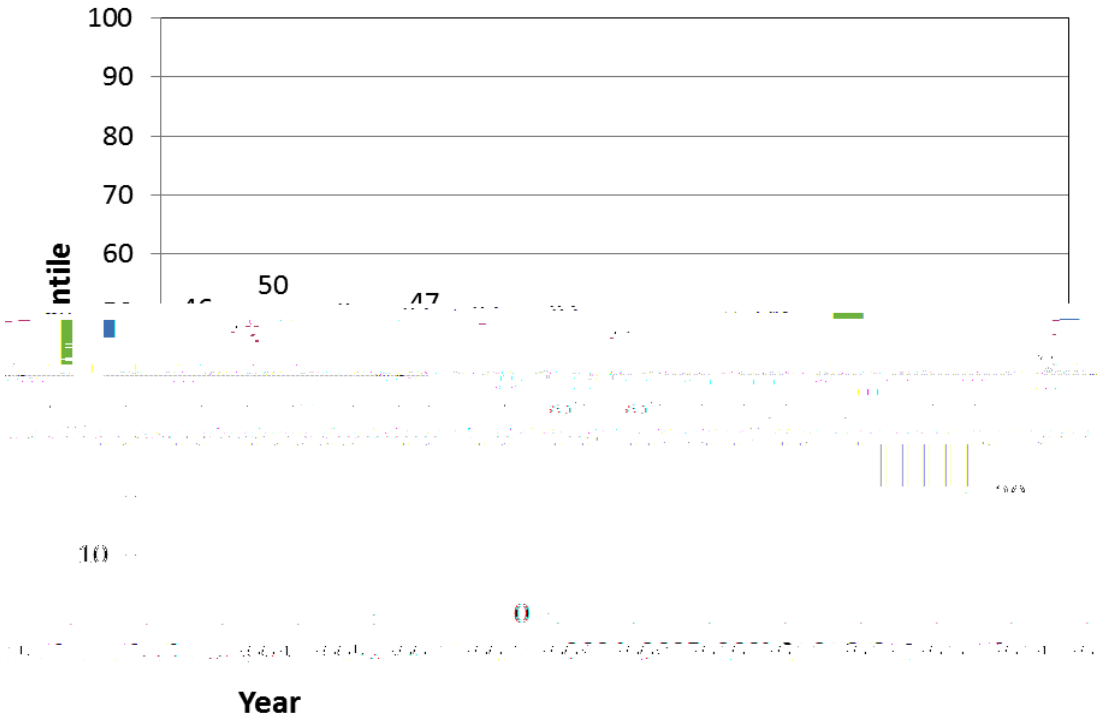
*Partial credit was applied to exam questions and lab notebook grading. If 75% off all possible points were earned, the answer was counted as correct.

CHEM 3303 Organic Chemistry

Students who successfully complete the year-long series of orga

Experience for 2015 is shown in the following table:

	# of students



Results of Capstone Organic Laboratory Assignment during 2004 – 2015 for Chemistry and Biochemistry Majors

CHEM 4411, 4412, 4413 General Biochemistry

supersecondary structures.
5) Know the propertie

but "enzyme kinetics" remained weak. The latter is a difficult topic. Whereas the decrease in performance for 2014 is probably not significant, still 55% for "enzyme kinetics" is way below our goal of 75%. To approach this weakness we will assign some special exercises on enzyme kinetics in the upcoming year and again make a special effort to spend extra time on this topic. Attention will also be given to protein motifs, where a dip in performance can be noted in the table.

CHEM 4412 - General Biochemistry II (Lecture course)

Student learning outcomes specifically assessed were #6, 7, and 8 based on embedded questions in the final exam in CHEM 4412.

Exam Question	Learning Outcome	No. of Students	No. with correct answer	% with correct answer*

8) be able to correlate the changes observed in spectroscopic methods in terms of quantum theory.
9) understand the importance of rates of chemical reactions in the overall scheme of chemistry.
10) be able to calculate reaction order from the time dependence on concentration.
11) be able to understand and describe transition state theory.

providing more examples of gas-phase equilibrium problems in lecture. Additionally, the results for question 15 indicate that students struggled with the concept partial pressures in gas-phase equilibrium problems.

CHEM 3512 provides an introduction to molecular quantum mechanics and takes place in the second quarter of a three-quarter sequence in Physical Chemistry. The course begins with the fundamental principles of quantum mechanics followed by examples involving simple model potentials. These basic concepts are applied to develop the electronic struc

Learning outcome

Learning outcome

student advising). What are your assessment plans for the coming year, including revisions to the program's assessment process (e.g. add direct assessment, expand sample of student participants assessment)?

E. Suggestions and Recommendations for the CSCI EETF in the Future

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