

*1) Outcome to be assessed by dept members	1- Define and explain major concepts, theoretical principles and experimental findings in chemistry.					
2) Means of assessment and criteria of success	To assess SLO#1, we have administered the standardized exam provided by the American Chemical Society. Criteria of success as stated by the American Chemical society is to achieve an average of 36 correct answers.					
3) Summary of data collected	At the end off the fall semester, the standardized exam was administered for 2 sections of chemistry 229. The total students were 35 students who took the exam. The class averages were 39.3 and 38.4 of correct answers. We ran the analysis of the answers of the exam questions.					
4) Analysis and discussion of data	<b>Analysis of the results:</b>					
	Question Number	Number of incorrect answers	% students incorrect	Question Number	Number of incorrect answers	% students incorrect
	1	15	43%	36	13	37%
	2	7	20%	37	13	37%
	3	11	31%	38	17	49%
	4	13	37%	39	10	29%
	5	24	69%	40	17	49%
	6	21	60%	41	11	31%
	7	11	31%	42	21	60%
	8	26	74%	43	21	60%
	9	8	23%	44	26	74%
	10	19	54%	45	29	83%
	11	14	40%	46	32	91%
	12	11	31%	47	20	57%

	13	7	20%	48	21	60%
	14	11	31%	49	19	54%
	15	17	49%	50	18	51%
	16	16	46%	51	19	54%
	17	22	63%	52	12	34%
	18	11	31%	53	22	63%
	19	18	51%	54	12	34%
	20	4	11%	55	22	63%
	21	16	46%	56	2	6%
	22	25	71%	57	18	51%
	23	12	34%	58	15	43%
	24	19	54%	59	9	26%
	25	9	26%	60	12	34%
	26	17	49%	61	20	57%
	27	22	63%	62	5	14%
	28	13	37%	63	16	46%
	29	15	43%	64	15	43%
	30	14	40%	65	10	29%
	31	14	40%	66	14	40%
	32	13	37%	67	5	14%
	33	21	60%	68	18	51%
	34	15	43%	69	17	49%
	35	11	31%	70	14	40%
	<p>From data analysis and looking at the topics covered in this standardized exam, it looks like the students demonstrate a deficiency in two major subjects. These two subjects are equilibrium and oxidation reduction reactions.</p>					
5) Plan of action/what to do next	<p>As a way to over come these deficiencies, an introduction of more concept and less calculation approach to these two topics is required to improve the understanding and comprehension of the subject.</p>					