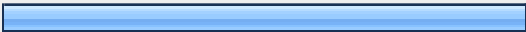
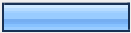


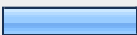
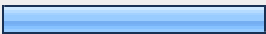
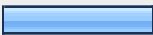




CHAS Academic Laboratory Safety Culture




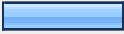

1. Who provides primary leadership for the safety program in your department?			Response Percent	Response Count
The Department Chair			35.3%	137
Individual Faculty			21.6%	84
The Chemical Hygiene Officer			43.3%	168
The Chemical Safety Committee			22.2%	86
		Other (please specify)		32
		answered question		388
		skipped question		31

2. What level of detail is your Chemical Hygiene Plan written at?			Response Percent	Response Count
Department wide			79.1%	314
Laboratory specific			18.9%	75
Specific to general classes of chemical hazards			16.6%	66
Specific to each procedure			4.0%	16
		answered question		397
		skipped question		22

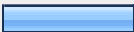
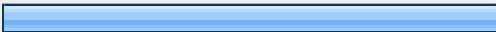
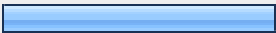

3. The Chemical Hygiene Plan for my department is readily accessible and routinely used by people who work in or support laboratory activities.

	Response Percent	Response Count
Strongly agree 	20.0%	81
Agree 	39.4%	160
Neutral 	22.2%	90
Disagree 	12.3%	50
Strongly disagree 	6.2%	25
answered question		406
skipped question		13





4. The Chemical Hygiene Plan is reviewed annually and revised as necessary.

	Response Percent	Response Count
Strongly Agree 	18.8%	76
Agree 	30.4%	123
Neutral 	24.3%	98
Disagree 	18.1%	73
Strongly disagree 	8.4%	34
answered question		404
skipped question		15





5. Who provides day to day oversight of safety conditions in your department's labs? (check all that apply)

	Response Percent	Response Count
The Department Chair 	19.7%	80
Individual Faculty 	74.6%	303
The Chemical Hygiene Officer 	40.9%	166
The Chemical Safety Committee 	15.8%	64
<i>answered question</i>		406
<i>skipped question</i>		13



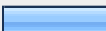


6. When accidents occur in the laboratory, they are reported and a systematic review occurs.

	Response Percent	Response Count
Always 	44.6%	179
Usually 	43.6%	175
Seldom 	9.2%	37
Not at all 	2.5%	10
<i>answered question</i>		401
<i>skipped question</i>		18

7. How frequently do laboratory safety inspections to determine compliance with the chemical hygiene plan occur?

	Response Percent	Response Count
Weekly 	4.9%	19
Monthly 	13.6%	53
Each semester 	36.2%	141
Annually 	45.4%	177
<i>answered question</i>		390
<i>skipped question</i>		29

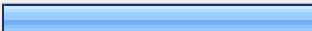
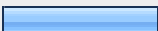
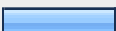

8. The institution's academic administration supports the development and enforcement of the safety rules for laboratories.

	Response Percent	Response Count
Strongly agree 	31.9%	129
Agree 	44.0%	178
Neutral 	15.3%	62
Disagree 	7.2%	29
Strongly disagree 	1.7%	7
answered question		405
skipped question		14

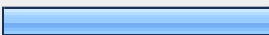
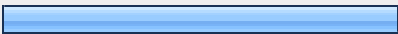
9. Provide details on the issues raised above or additional comments on your institution's safety oversight program here:

	Response Count
	125
answered question	125
skipped question	294

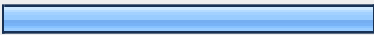
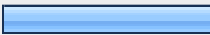


10. New faculty members receive safety training (either general or specific to their new location) prior to being allowed to begin work in the laboratories.

	Response Percent	Response Count
Always 	47.0%	190
Usually 	23.3%	94
Seldom 	16.6%	67
Not at all 	13.1%	53
answered question		404
skipped question		15

11. We provide and mandate laboratory safety training program at least once a year for continuing faculty members.

	Response Percent	Response Count
Yes 	40.4%	164
No 	59.6%	242
<i>answered question</i>		406
<i>skipped question</i>		13

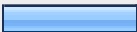



12. Are adjunct faculty involved in class laboratories given the same level of oversight as full time faculty?

	Response Percent	Response Count
Always 	56.0%	223
Usually 	31.4%	125
Seldom 	7.3%	29
Not at all 	5.3%	21
<i>answered question</i>		398
<i>skipped question</i>		21





13. Safety programs include planning and accommodations for faculty with disabilities.

	Response Percent	Response Count
Agree strongly 	14.3%	57
Agree 	25.6%	102
Neutral 	40.6%	162
Disagree 	13.8%	55
Disagree strongly 	5.8%	23
<i>answered question</i>		399
<i>skipped question</i>		20

14. Faculty members work alone in the laboratory when conducting experimental operations.

	Response Percent	Response Count
Often 	20.0%	81
Occasionally 	50.5%	204
Rarely 	24.8%	100
Not at all 	4.7%	19
<i>answered question</i>		404
<i>skipped question</i>		15

15. Observance of good safety practices is part of the annual and tenure evaluations of faculty members.

	Response Percent	Response Count
Always 	8.2%	33
Usually 	16.0%	64
Seldom 	35.9%	144
Not at all 	39.9%	160
<i>answered question</i>		401
<i>skipped question</i>		18

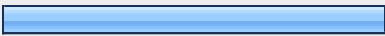
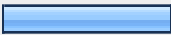


16. Overall, I would say that my faculty members follow best practices with respect to safety concerns in the laboratory.

	Response Percent	Response Count
Strongly agree 	15.0%	61
Agree 	64.0%	260
Neutral 	18.5%	75
Disagree 	2.2%	9
Strongly disagree 	0.2%	1
<i>answered question</i>		406
<i>skipped question</i>		13

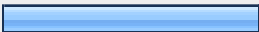
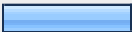
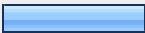

17. Provide details on the issues raised above or additional comments on the safety culture of your faculty here:

	Response Count
	85
<i>answered question</i>	85
<i>skipped question</i>	334

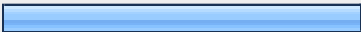
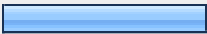


18. New professional staff employees receive safety training (either general or specific to their new location) prior to being allowed to begin work in the laboratories.

	Response Percent	Response Count
Always 	57.8%	222
Usually 	25.3%	97
Seldom 	9.9%	38
Not at all 	7.0%	27
<i>answered question</i>		384
<i>skipped question</i>		35

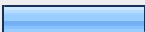
19. Continuing professional staff employees receive safety refresher training at least once a year.

		Response Percent	Response Count
Always		38.6%	147
Usually		19.2%	73
Seldom		21.3%	81
Not at all		21.0%	80
answered question			381
skipped question			38

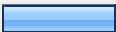
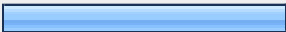
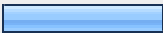

20. Are part time or temporary professional staff provided the same training as permanent full time staff?

		Response Percent	Response Count
Always		54.1%	203
Usually		30.4%	114
Seldom		7.2%	27
Not at all		8.3%	31
answered question			375
skipped question			44



21. Safety programs include planning and accommodations for employees with disabilities

		Response Percent	Response Count
Always		23.5%	87
Usually		28.3%	105
Seldom		27.2%	101
Not at all		21.0%	78
answered question			371
skipped question			48

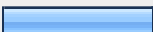
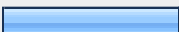
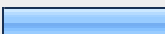
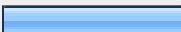
22. Professional staff work alone in the laboratory when conducting experimental operations.

		Response Percent	Response Count
Often		16.5%	63
Occasionally		42.7%	163
Rarely		24.1%	92
Not at all		16.8%	64
answered question			382
skipped question			37



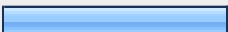

23. When specialized experiments are undertaken that entail special risks, additional safety training is provided to professional staff.

		Response Percent	Response Count
Always		39.6%	146
Usually		36.9%	136
Seldom		14.4%	53
Not at all		9.2%	34
answered question			369
skipped question			50

24. Observance of good safety practices is part of the annual evaluations of professional staff.

		Response Percent	Response Count
Always		22.2%	83
Usually		26.5%	99
Seldom		24.6%	92
Not at all		26.7%	100
answered question			374
skipped question			45





25. Professional staff are penalized if they fail to follow the safety rules after being trained and reminded of the best safety practice involved.

	Response Percent	Response Count
Always 	15.8%	58
Usually 	26.2%	96
Seldom 	33.6%	123
Not at all 	24.3%	89
answered question		366
skipped question		53

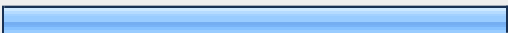
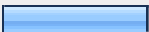


26. Provide details on the issues raised above or additional comments on your professional staff's safety program here:

	Response Count
	89
answered question	89
skipped question	330

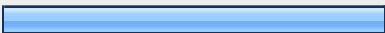
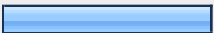


27. Students are given safety instruction in the beginning of each semester in each laboratory.

	Response Percent	Response Count
Always 	81.4%	324
Usually 	16.1%	64
Seldom 	1.5%	6
Not at all 	1.0%	4
answered question		398
skipped question		21

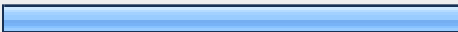
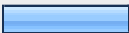


28. Students are given specific safety instructions, including a review of potential hazards associated with the chemicals being used, before specific laboratories are conducted.

	Response Percent	Response Count
Always 	76.4%	305
Usually 	21.6%	86
Seldom 	1.5%	6
Not at all 	0.5%	2
answered question		399
skipped question		20

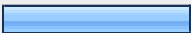
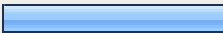
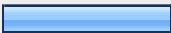


29. All undergraduates are provided safety instruction before they begin a laboratory research project with a faculty member.

	Response Percent	Response Count
Strongly agree 	57.7%	229
Agree 	31.2%	124
Neutral 	9.6%	38
Disagree 	1.5%	6
Strongly disagree	0.0%	0
answered question		397
skipped question		22

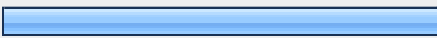
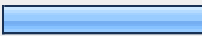


30. All graduate students are provided safety instruction prior to being allowed to work in the laboratory.

	Response Percent	Response Count
Always 	69.2%	180
Usually 	18.8%	49
Seldom 	1.2%	3
Not at all 	10.8%	28
answered question		260
skipped question		159



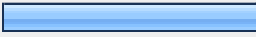
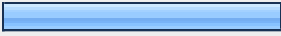
31. Safety programs include planning and accommodations for students with disabilities

	Response Percent	Response Count
Strongly agree 	28.2%	108
Agree 	33.2%	127
Neutral 	25.3%	97
Disagree 	8.4%	32
Strongly disagree 	5.0%	19
answered question		383
skipped question		36


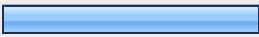
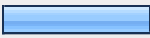

32. When specialized experiments are undertaken that entail special risks, additional safety training is provided to students.

	Response Percent	Response Count
Always 	65.9%	259
Usually 	30.3%	119
Seldom 	3.6%	14
Not at all 	0.3%	1
answered question		393
skipped question		26


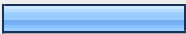


33. Undergraduates conduct experimental work when no one is in the vicinity of their workarea.

	Response Percent	Response Count
Often 	2.3%	9
Occasionally 	17.8%	70
Rarely 	38.2%	150
Not at all 	41.7%	164
answered question		393
skipped question		26

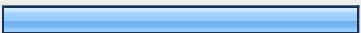
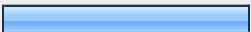



34. Graduate students are allowed to conduct experimental work when no one is in the vicinity of their workarea.

	Response Percent	Response Count
Often 	13.7%	35
Occasionally 	38.4%	98
Rarely 	22.0%	56
Not at all 	25.9%	66
answered question		255
skipped question		164

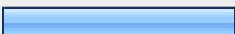
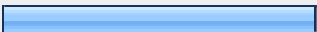
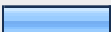

35. Students routinely use appropriate personal protective equipment when taking class laboratories.

	Response Percent	Response Count
Strongly agree 	69.5%	274
Agree 	27.4%	108
Neutral 	2.0%	8
Disagree 	1.0%	4
Strongly disagree	0.0%	0
answered question		394
skipped question		25

36. Teaching assistant are trained in how to provide effective oversight of safety practices in a class laboratory.

	Response Percent	Response Count
Agree strongly 	53.8%	189
Agree 	37.0%	130
Neutral 	7.4%	26
Disagree 	0.9%	3
Disagree strongly 	0.9%	3
answered question		351
skipped question		68

37. Students are penalized if they fail to follow the safety rules after being trained and reminded of the best safety practice involved.

	Response Percent	Response Count
Always 	35.0%	138
Usually 	47.2%	186
Seldom 	15.7%	62
Not at all 	2.0%	8
<i>answered question</i>		394
<i>skipped question</i>		25

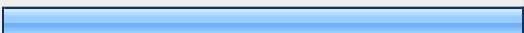




38. Provide details on the issues raised above or additional comments on your student safety program here:

	Response Count
	106
<i>answered question</i>	106
<i>skipped question</i>	313

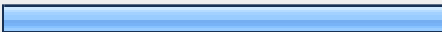




39. How many full time equivalent (FTE) staff support your department's chemical safety program?

	Response Count
	363
<i>answered question</i>	363
<i>skipped question</i>	56

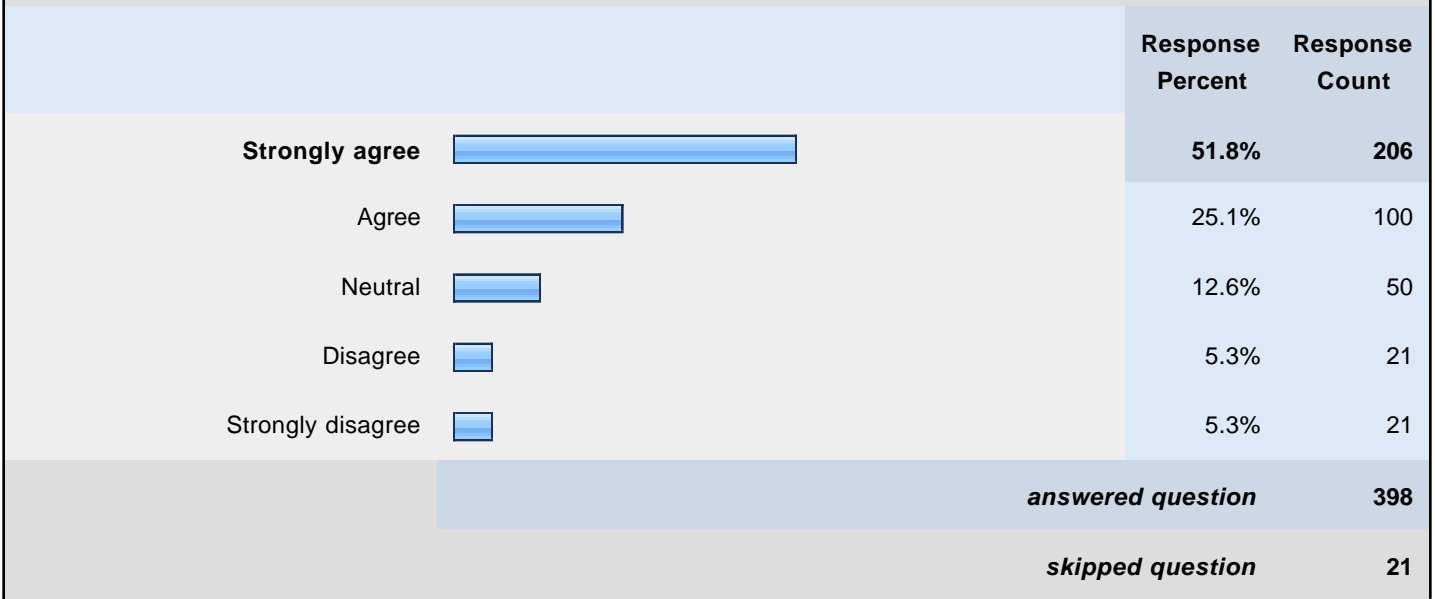
40. All laboratories have adequate emergency equipment such as safety showers, fire extinguishers and eyewashes.

	Response Percent	Response Count
Strongly agree 	78.9%	314
Agree 	17.6%	70
Neutral 	1.5%	6
Disagree 	1.5%	6
Strongly disagree 	0.5%	2
answered question		398
skipped question		21

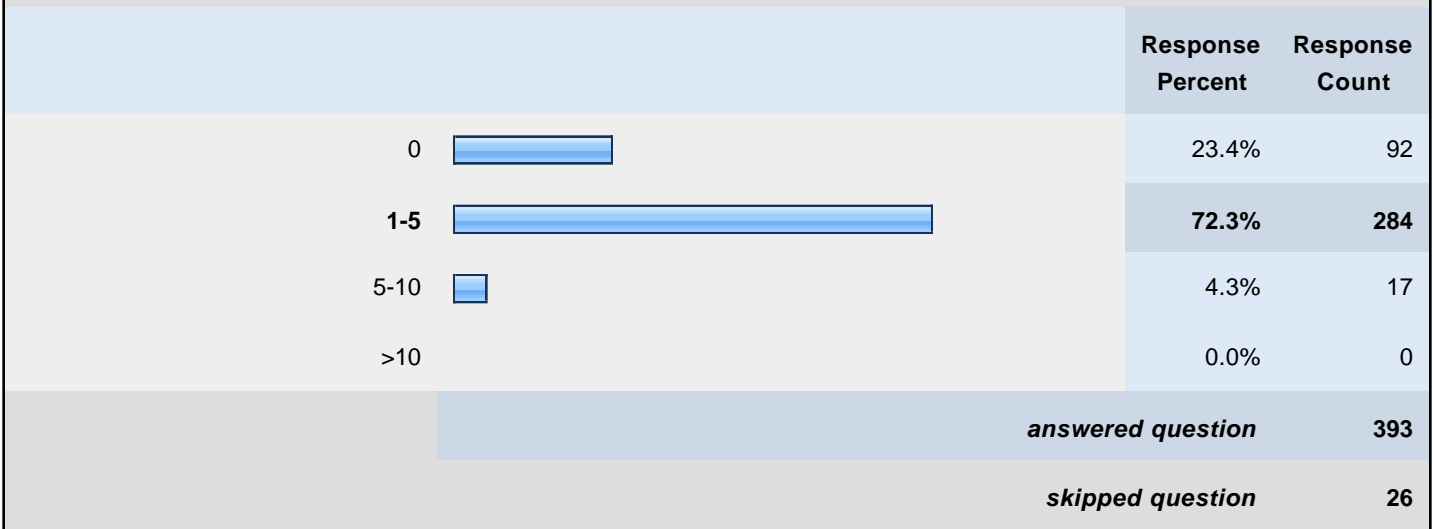
41. Laboratory emergency equipment is maintained according to OSHA, ANSI or manufacturer's recommendations.

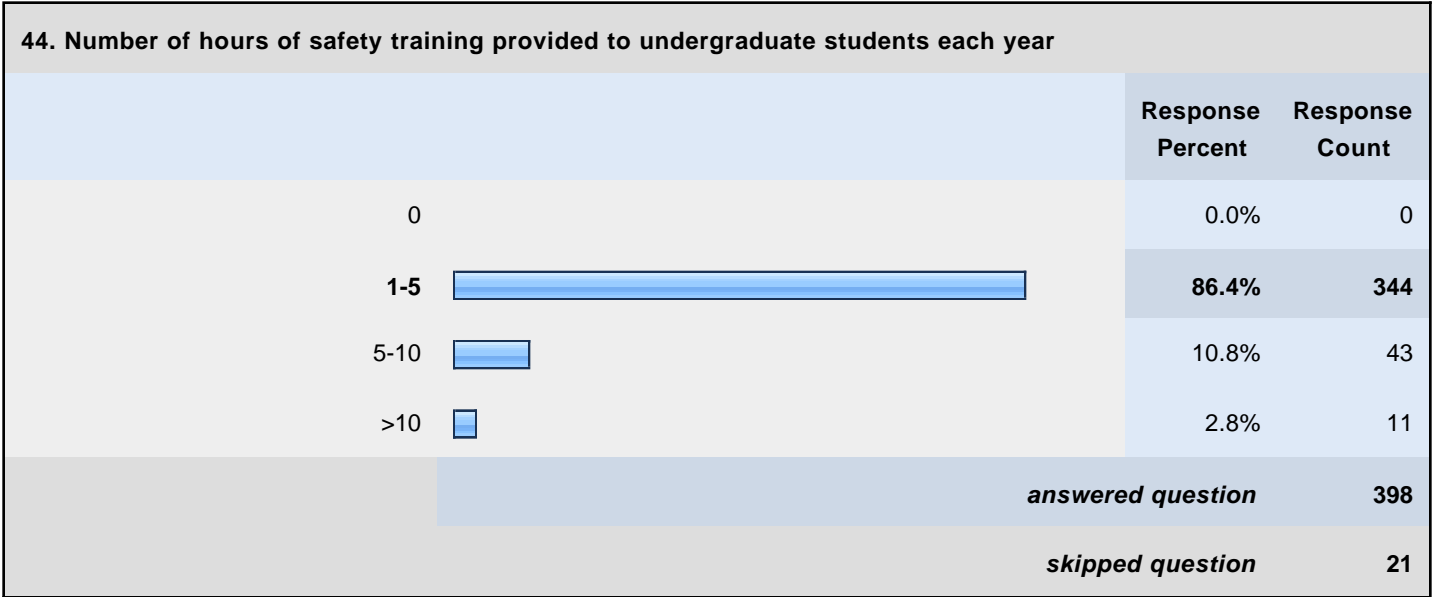
	Response Percent	Response Count
Strongly agree 	66.8%	265
Agree 	24.7%	98
Neutral 	5.3%	21
Disagree 	2.0%	8
Strongly disagree 	1.3%	5
answered question		397
skipped question		22

42. We receive adequate funding to purchase necessary personal protective equipment such as gloves and appropriate eyewear for all faculty members and employees.



43. Number of hours of safety training provided to faculty members each year

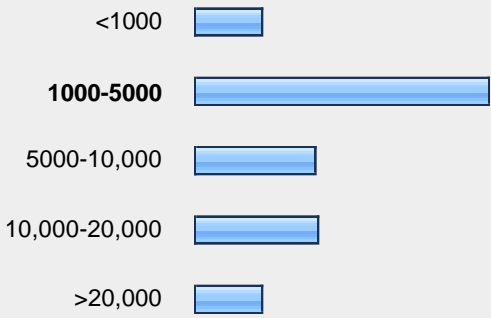




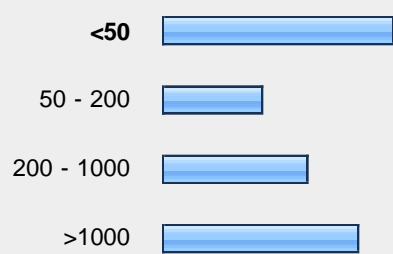
46. Annual budget for safety training efforts			Response Percent	Response Count
None			22.5%	89
<\$100			9.4%	37
\$100-\$1000			10.6%	42
\$1000-\$10,000			4.1%	16
>\$10,000			0.8%	3
Supplied centrally, or no specific budget			52.7%	208
			<i>answered question</i>	395
			<i>skipped question</i>	24

47. We'd appreciate any comments you have on the questions we've asked or questions we didn't ask but should have.		Response Count
		78
		<i>answered question</i>
		78
		<i>skipped question</i>
		341


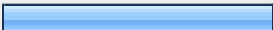
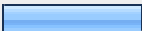


48. Number of undergraduates campuswide

	Response Percent	Response Count
<1000 	9.6%	38
1000-5000	44.4%	176
5000-10,000	17.9%	71
10,000-20,000	18.4%	73
>20,000	9.6%	38
<i>answered question</i>		396
<i>skipped question</i>		23

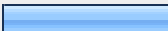
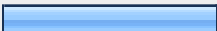
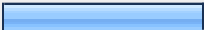

49. Number of graduate students campuswide

	Response Percent	Response Count
<50 	34.5%	126
50 - 200	14.5%	53
200 - 1000	21.6%	79
>1000	29.3%	107
<i>answered question</i>		365
<i>skipped question</i>		54


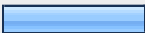
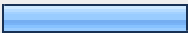
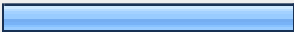
50. What is the total enrollment (by all majors) in undergraduate chemistry classes each year?

	Response Percent	Response Count
<100 	7.8%	31
100 - 500 	40.8%	162
500 - 1000 	20.7%	82
1000 - 5000 	25.2%	100
>5000 	5.5%	22
answered question		397
skipped question		22

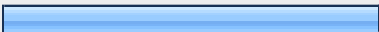




51. How many faculty members are full time chemistry faculty?

	Response Percent	Response Count
5 or fewer 	24.9%	98
5 - 10 	32.1%	126
10 - 20 	30.0%	118
>20 	13.0%	51
answered question		393
skipped question		26


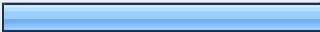
52. How many undergraduate chemistry, biochemistry or chemistry related majors are in your department?

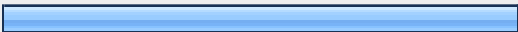
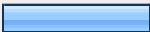
	Response Percent	Response Count
<5 	7.4%	29
5 - 20 	21.1%	83
20 - 50 	27.7%	109
>50 	43.9%	173
answered question		394
skipped question		25

53. How many graduate students are there in your department?

	Response Percent	Response Count
0 	56.8%	222
1-10 	8.4%	33
10-25 	7.4%	29
25-50 	10.0%	39
>50 	17.4%	68
answered question		391
skipped question		28

54. Is your school primarily publically or privately funded?

	Response Percent	Response Count
Private 	51.9%	204
Public 	48.1%	189
answered question		393
skipped question		26

55. Is your chemistry program approved by the American Chemical Society?			
		Response Percent	Response Count
Yes		78.0%	308
No		22.0%	87
answered question			395
skipped question			24

56. Which of these best describes the role of the person who responded to this survey?			
		Response Percent	Response Count
Department Chair		81.4%	297
Chair of Department Safety Committee		3.6%	13
Member of Department Safety Committee		3.8%	14
Department Chemical Hygiene Officer		8.8%	32
Institutional Chemical Hygiene Officer		2.5%	9
Other (please specify)			45
answered question			365
skipped question			54