NSSE Scores for Biochemistry and Molecular Biology (BCHM) Majors

The National Survey of Student Engagement (NSSE) collects information from first-year (FY) and senior (SR) undergraduates from hundreds of universities about their participation in programs and activities relevant to their learning and personal development. The results provide an estimate of how students spend their time (which we know influences their success) and can be used as an indirect measure of student learning and development. The survey includes 85 items; 42 of the most critical items are used to build five 'Benchmarks of Effective Educational Practice'. The benchmarks reflect student behaviors and institutional features that are powerful contributors to student learning and personal development (http://nsse.iub.edu/pdf/nsse_benchmarks.pdf). Benchmarks include:

- Level of Academic Challenge
- Active and Collaborative Learning
- Student-Faculty Interaction
- Enriching Educational Experiences
- Supportive Campus Environment

The purpose of this report is to explore differences in benchmark means between BCHM majors and all other majors. An appendix is also included, which shows the frequency responses for all of the survey questions in the 2012 NSSE across BCHM status. Since NSSE surveys at the first-year and senior student levels comparisons of NSSE responses always need to be made within a student level.

Among the 2012 NSSE sample about 1.2% of first-year respondents and .9% of senior respondents are BCHM majors. At CSU in spring 2012, about .7% of freshmen are BCHM majors and about .8% of seniors are BCHM majors. BCHM majors are slightly overrepresented in the NSSE sample. Please note that these rates are based on the department's number of NSSE respondents (20 first-year and 16 seniors) as well as the total number of NSSE respondents and CSU enrollment at census of the spring 2012 semester.

BCHM first-year students score higher than other first-year respondents on the Level of Academic Challenge, Active and Collaborative Learning, and Enriching Educational Experiences benchmarks. These differences are driven by the following results: BCHM first-year students are more likely to report collaborating with other classmates and making classroom presentations very often, 60% of BCHM first-year students study more than 20 hours a week compared to only 27% of other first-year students, and 50% of BCHM first-year students have done volunteer work compared to only 35% of other first-year students. BCHM first-year students do not differ from other first-year students on the other two benchmarks

Senior BCHM majors score higher on the Student-Faculty Interactions benchmark compared to all other seniors. Seventy-five percent of BCHM seniors have worked with a faculty member on research project compared to only 24% of other seniors. Additionally, senior BCHM students are more likely (compared to other seniors) to report talking with faculty about course work, career plans, and grades very often. BCHM seniors do not differ from other seniors on any of the other four benchmarks.

NSSE 2012 Benchmark Comparisons

Colorado State University

Bio-Chemistry & Molecular Biology

Level of Academic Challenge (LAC)

Mean Comparisons

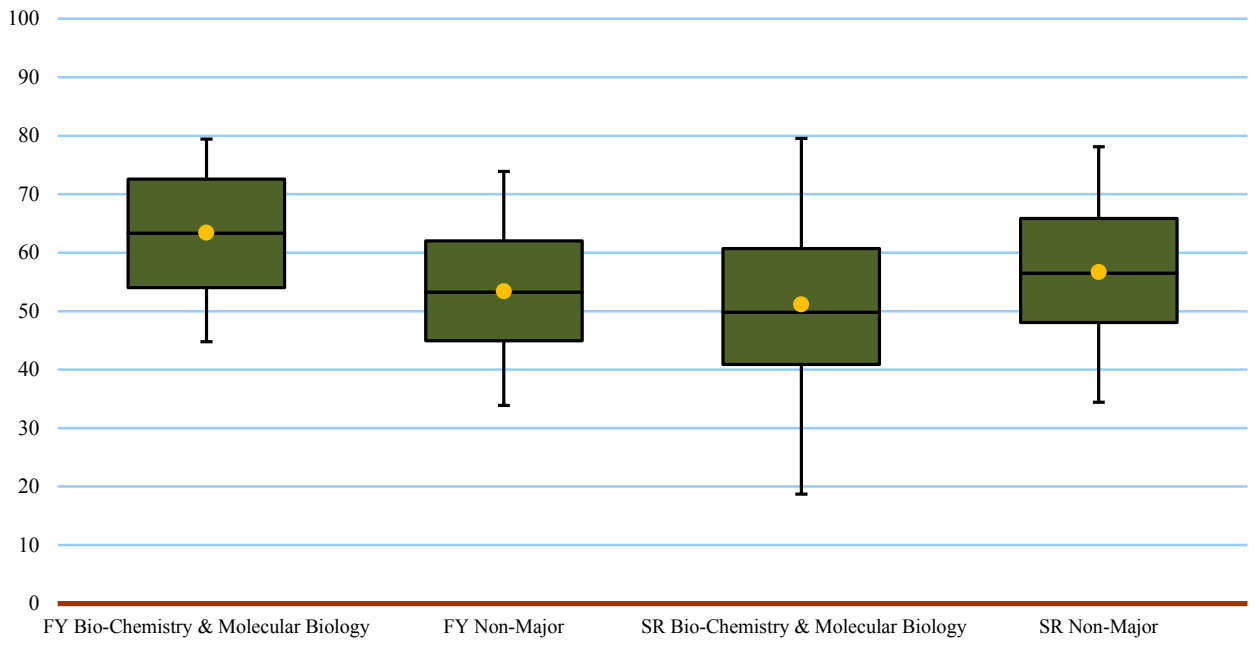
	Bio-Chemistry & Molecular Biology		Non-Major			
Class	*Mean* [a]	*n*	*Mean* [a]	*n*	*Sig* [b]	*Effect Size* [c]
First-Year	63.4	20	53.4	1633	***	.88
Senior	51.2	16	56.7	1647		

[a] Benchmarks with mean differences that are larger than would be expected by chance alone are noted with one, two, or three asterisks, denoting one of three significance levels (p<.1, p< .05, and p<.01). The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important.

[b] * p<.1, ** p<.05, ***p<.01 (2-tailed)

[c] Effect size (only shown for statistically significant differences) indicates the practical significance of the mean difference. It is calculated by dividing the mean difference by the pooled standard deviation. In practice, an effect size of .2 is often considered small, .5 moderate, and .8 large.

Distributions of Student Benchmark Scores



Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean.

Level of Academic Challenge (LAC) Items

Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote high levels of student achievement by emphasizing the importance of academic effort and setting high expectations for student performance.

- Hours spent preparing for class (studying, reading, writing, doing homework or lab work, etc.)
- Number of assigned textbooks, books, or book-length packs of course readings
- Number of written papers or reports of 20 pages or more, between 5 and 19 pages, and fewer than 5 pages
- Coursework emphasizes: **Analysis** of the basic elements of an idea, experience or theory
- Coursework emphasizes: **Synthesis** and organizing of ideas, information, or experiences into new, more complex interpretations and relationships
- Coursework emphasizes: **Making judgments** about the value of information, arguments, or methods
- Coursework emphasizes: **Applying** theories or concepts to practical problems or in new situations
- Working harder than you thought you could to meet an instructor's standards or expectations
- Campus environment emphasizes: Spending significant amount of time studying and on academic work

Active and Collaborative Learning (ACL)

Mean Comparisons

	Bio-Chemistry & Molecular Biology		Non-Major			
Class	*Mean* [a]	*n*	*Mean* [a]	*n*	*Sig* [b]	*Effect Size* [c]
First-Year	47.2	20	40.8	1671	*	.35
Senior	48.8	16	50.4	1693		

[a] Benchmarks with mean differences that are larger than would be expected by chance alone are noted with one, two, or three asterisks, denoting one of three significance levels (p<.1, p< .05, and p<.01). The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important.

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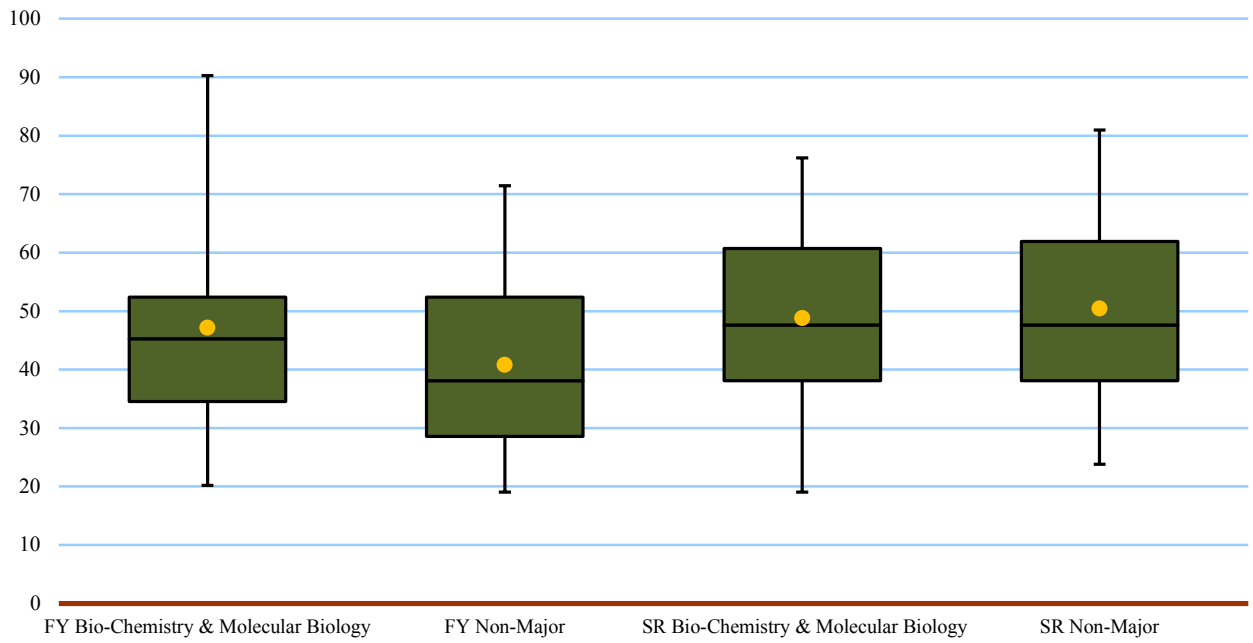

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Active and Collaborative Learning (ACL) Items

Students learn more when they are intensely involved in their education and asked to think about what they are learning in different settings. Collaborating with others in solving problems or mastering difficult material prepares students for the messy, unscripted problems they will encounter daily during and after college.

- Asked questions in class or contributed to class discussions
- Made a class presentation
- Worked with other students on projects **during class**
- Worked with classmates **outside of class** to prepare class assignments
- Tutored or taught other students (paid or voluntary)
- Participated in a community-based project (e.g., service learning) as part of a regular course
- Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)

Student-Faculty Interaction (SFI)

Mean Comparisons

	Bio-Chemistry & Molecular Biology		Non-Major			
Class	*Mean* [a]	*n*	*Mean* [a]	*n*	*Sig* [b]	*Effect Size* [c]
First-Year	38.9	19	33.6	1634		
Senior	52.1	16	41.6	1650	**	.49

[a] Benchmarks with mean differences that are larger than would be expected by chance alone are noted with one, two, or three asterisks, denoting one of three significance levels (p<.1, p< .05, and p<.01). The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important.

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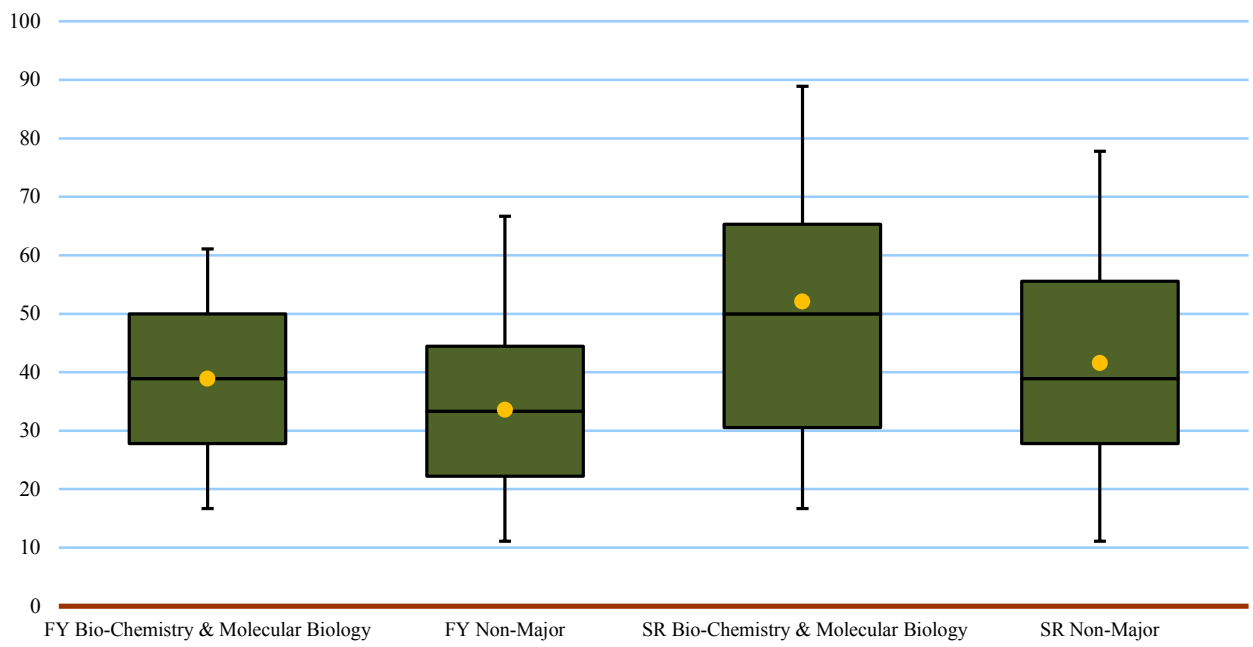

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Student-Faculty Interaction (SFI) Items

Students learn firsthand how experts think about and solve practical problems by interacting with faculty members inside and outside the classroom. As a result, their teachers become role models, mentors, and guides for continuous, life-long learning.

- Discussed grades or assignments with an instructor
- Talked about career plans with a faculty member or advisor
- Discussed ideas from your readings or classes with faculty members outside of class
- Worked with faculty members on activities other than coursework (committees, orientation, student-life activities, etc.)
- Received prompt written or oral feedback from faculty on your academic performance
- Worked on a research project with a faculty member outside of course or program requirements

Enriching Educational Experiences (EEE)

Mean Comparisons

	Bio-Chemistry & Molecular Biology		Non-Major			
Class	*Mean* [a]	*n*	*Mean* [a]	*n*	*Sig* [b]	*Effect Size* [c]
First-Year	33.0	20	28.0	1617	*	.34
Senior	46.0	16	41.6	1646		

[a] Benchmarks with mean differences that are larger than would be expected by chance alone are noted with one, two, or three asterisks, denoting one of three significance levels (p<.1, p< .05, and p<.01). The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important.

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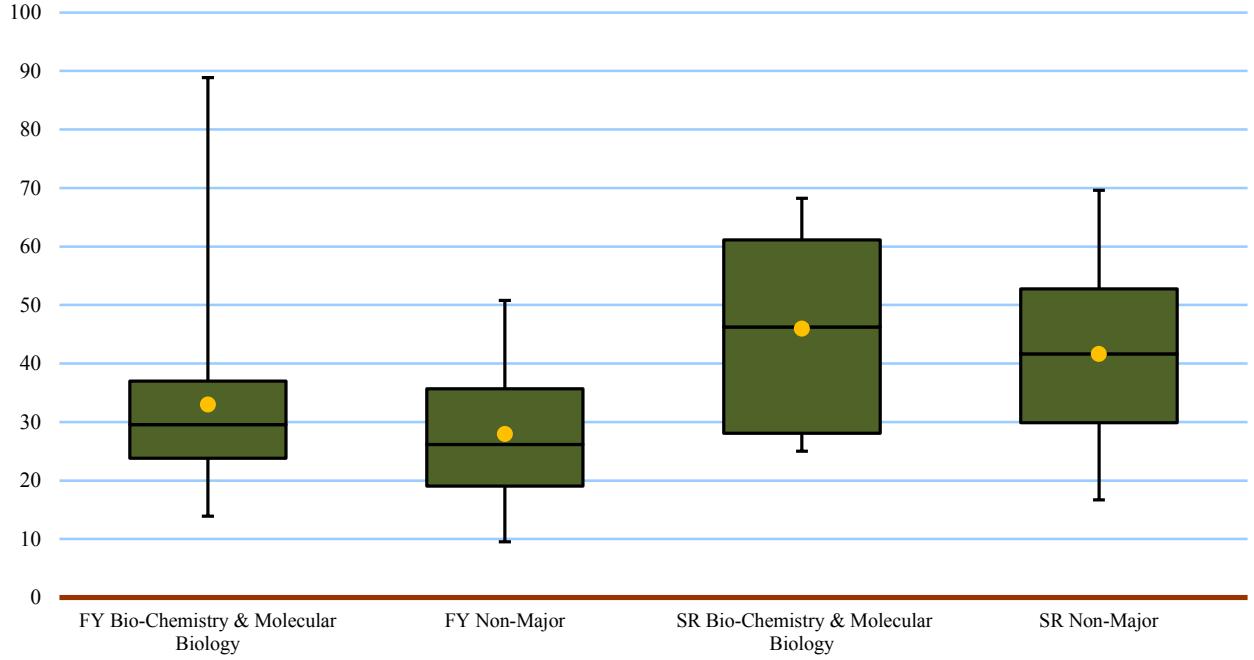

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Enriching Educational Experiences (EEE) Items

Complementary learning opportunities enhance academic programs. Diversity experiences teach students valuable things about themselves and others. Technology facilitates collaboration between peers and instructors. Internships, community service, and senior capstone courses provide opportunities to integrate and apply knowledge.

- Hours spent participating in co-curricular activities (organizations, campus publications, student gov., social fraternity or sorority, etc.)
- Practicum, internship, field experience, co-op experience, or clinical assignment
- Community service or volunteer work
- Foreign language coursework and study abroad
- Independent study or self-designed major
- Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)
- Serious conversations with students of different religious beliefs, political opinions, or personal values
- Serious conversations with students of a different race or ethnicity than your own
- Using electronic medium (e.g., listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment
- Campus environment encouraging contact among students from different economic, social, and racial or ethnic backgrounds
- Participate in a learning community or some other formal program where groups of students take two or more classes together

Supportive Campus Environment (SCE)

Mean Comparisons

	Bio-Chemistry & Molecular Biology		Non-Major			
Class	*Mean* [a]	*n*	*Mean* [a]	*n*	*Sig* [b]	*Effect Size* [c]
First-Year	59.6	20	64.3	1604		
Senior	63.5	16	58.5	1628		

[a] Benchmarks with mean differences that are larger than would be expected by chance alone are noted with one, two, or three asterisks, denoting one of three significance levels (p<.1, p< .05, and p<.01). The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important.

[b] * p<.1, ** p<.05, ***p<.01 (2-tailed)

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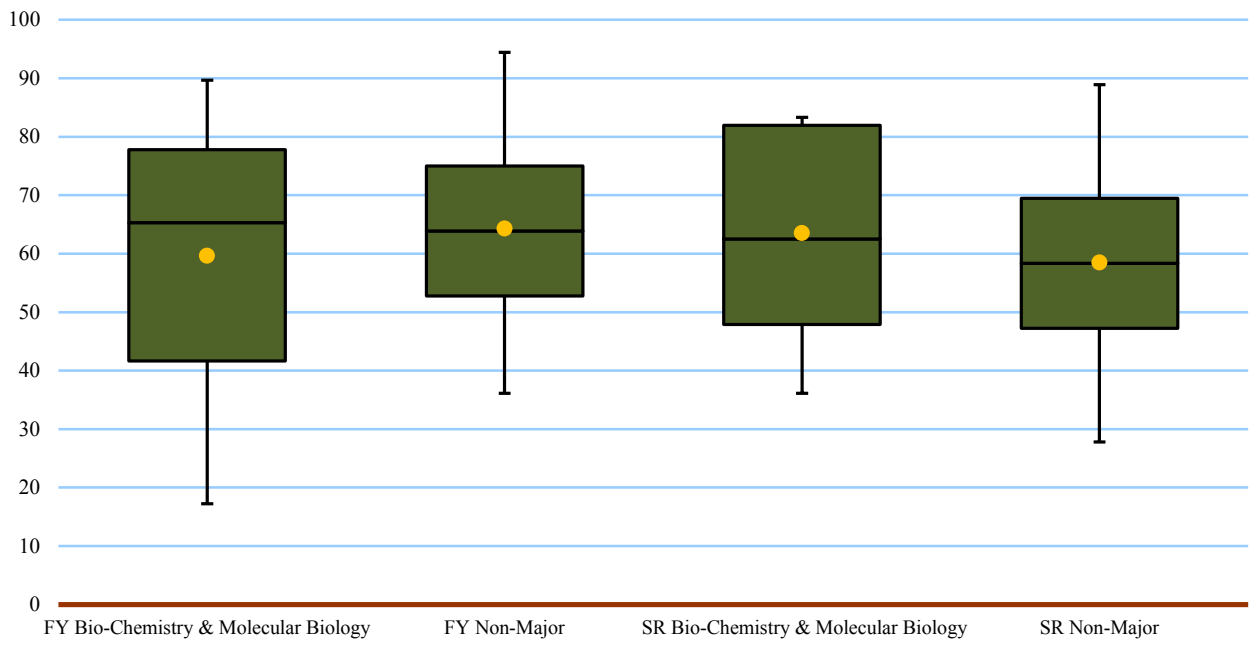
Distributions of Student Benchmark Scores



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Supportive Campus Environment (SCE) Items

Students perform better and are more satisfied at colleges that are committed to their success and cultivate positive working and social relations among different groups on campus.

- Campus environment provides the support you need to help you succeed academically
- Campus environment helps you cope with your non-academic responsibilities (work, family, etc.)
- Campus environment provides the support you need to thrive socially
- Quality of relationships with other students
- Quality of relationships with faculty members
- Quality of relationships with administrative personnel and offices

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
1a.	Asked questions in class or contributed to class discussions	CLQUEST (ACL)	Never	0	*0%*	124	*7%*	0	*0%*	51	*3%*
			Sometimes	9	*45%*	795	*48%*	9	*56%*	610	*36%*
			Often	7	*35%*	502	*30%*	3	*19%*	536	*32%*
			Very often	4	*20%*	247	*15%*	4	*25%*	494	*29%*
			Total	20	*100%*	1,668	*100%*	16	*100%*	1,691	*100%*
1b.	Made a class presentation	CLPRESEN (ACL)	Never	2	*10%*	413	*25%*	1	*6%*	132	*8%*
			Sometimes	12	*60%*	876	*53%*	8	*50%*	668	*40%*
			Often	4	*20%*	289	*17%*	5	*31%*	574	*34%*
			Very often	2	*10%*	75	*5%*	2	*13%*	307	*18%*
			Total	20	*100%*	1,653	*100%*	16	*100%*	1,681	*100%*
1c.	Prepared two or more drafts of a paper or assignment before turning it in	REWROPAP	Never	2	*10%*	261	*16%*	4	*25%*	294	*17%*
			Sometimes	9	*45%*	563	*34%*	6	*38%*	678	*40%*
			Often	7	*35%*	573	*35%*	2	*13%*	465	*28%*
			Very often	2	*10%*	259	*16%*	4	*25%*	249	*15%*
			Total	20	*100%*	1,656	*100%*	16	*100%*	1,686	*100%*
1d.	Worked on a paper or project that required integrating ideas or information from various sources	INTEGRAT	Never	0	*0%*	34	*2%*	0	*0%*	18	*1%*
			Sometimes	4	*20%*	347	*21%*	3	*19%*	191	*11%*
			Often	7	*35%*	761	*46%*	7	*44%*	608	*36%*
			Very often	9	*45%*	519	*31%*	6	*38%*	866	*51%*
			Total	20	*100%*	1,661	*100%*	16	*100%*	1,683	*100%*
1e.	Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class discussions or writing assignments	DIVCLASS	Never	0	*0%*	123	*7%*	3	*19%*	184	*11%*
			Sometimes	3	*15%*	575	*35%*	8	*50%*	596	*36%*
			Often	11	*55%*	670	*40%*	4	*25%*	564	*34%*
			Very often	6	*30%*	292	*18%*	1	*6%*	333	*20%*
			Total	20	*100%*	1,660	*100%*	16	*100%*	1,677	*100%*
1f.	Come to class without completing readings or assignments	CLUNPREP	Never	5	*25%*	340	*20%*	5	*31%*	253	*15%*
			Sometimes	12	*60%*	956	*58%*	8	*50%*	961	*57%*
			Often	3	*15%*	252	*15%*	1	*6%*	323	*19%*
			Very often	0	*0%*	111	*7%*	2	*13%*	147	*9%*
			Total	20	*100%*	1,659	*100%*	16	*100%*	1,684	*100%*
1g.	Worked with other students on projects **during class**	CLASSGRP (ACL)	Never	3	*15%*	280	*17%*	2	*13%*	196	*12%*
			Sometimes	10	*50%*	756	*46%*	8	*50%*	707	*42%*
			Often	3	*15%*	475	*29%*	3	*19%*	535	*32%*
			Very often	4	*20%*	144	*9%*	3	*19%*	247	*15%*
			Total	20	*100%*	1,655	*100%*	16	*100%*	1,685	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
1h.	Worked with classmates **outside of class** to prepare class assignments	OCCGRP (ACL)	Never	1	*5%*	152	*9%*	1	*6%*	73	*4%*
			Sometimes	7	*35%*	659	*40%*	9	*56%*	469	*28%*
			Often	8	*40%*	585	*35%*	3	*19%*	618	*37%*
			Very often	4	*20%*	269	*16%*	3	*19%*	532	*31%*
			Total	20	*100%*	1,665	*100%*	16	*100%*	1,692	*100%*
1i.	Put together ideas or concepts from different courses when completing assignments or during class discussions	INTIDEAS	Never	1	*5%*	53	*3%*	0	*0%*	35	*2%*
			Sometimes	7	*37%*	602	*37%*	4	*25%*	299	*18%*
			Often	8	*42%*	664	*41%*	8	*50%*	729	*44%*
			Very often	3	*16%*	315	*19%*	4	*25%*	590	*36%*
			Total	19	*100%*	1,634	*100%*	16	*100%*	1,653	*100%*
1j.	Tutored or taught other students (paid or voluntary)	TUTOR (ACL)	Never	8	*42%*	768	*47%*	3	*19%*	636	*38%*
			Sometimes	4	*21%*	575	*35%*	5	*31%*	613	*37%*
			Often	5	*26%*	197	*12%*	6	*38%*	248	*15%*
			Very often	2	*11%*	96	*6%*	2	*13%*	157	*9%*
			Total	19	*100%*	1,636	*100%*	16	*100%*	1,654	*100%*
1k.	Participated in a community-based project (e.g., service learning) as part of a regular course	COMMPROJ (ACL)	Never	10	*53%*	1,026	*63%*	11	*69%*	891	*54%*
			Sometimes	5	*26%*	386	*24%*	3	*19%*	453	*28%*
			Often	3	*16%*	133	*8%*	0	*0%*	174	*11%*
			Very often	1	*5%*	86	*5%*	2	*13%*	126	*8%*
			Total	19	*100%*	1,631	*100%*	16	*100%*	1,644	*100%*
1l.	Used an electronic medium (listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment	ITACADEM (EEE)	Never	0	*0%*	205	*13%*	3	*19%*	200	*12%*
			Sometimes	6	*32%*	511	*31%*	2	*13%*	491	*30%*
			Often	8	*42%*	473	*29%*	6	*38%*	458	*28%*
			Very often	5	*26%*	447	*27%*	5	*31%*	504	*30%*
			Total	19	*100%*	1,636	*100%*	16	*100%*	1,653	*100%*
1m.	Used e-mail to communicate with an instructor	EMAIL	Never	0	*0%*	35	*2%*	0	*0%*	9	*1%*
			Sometimes	5	*26%*	427	*26%*	0	*0%*	231	*14%*
			Often	7	*37%*	628	*39%*	7	*44%*	548	*33%*
			Very often	7	*37%*	539	*33%*	9	*56%*	865	*52%*
			Total	19	*100%*	1,629	*100%*	16	*100%*	1,653	*100%*
1n.	Discussed grades or assignments with an instructor	FACGRADE (SFI)	Never	3	*16%*	160	*10%*	3	*19%*	83	*5%*
			Sometimes	8	*42%*	760	*46%*	6	*38%*	650	*39%*
			Often	5	*26%*	496	*30%*	2	*13%*	559	*34%*
			Very often	3	*16%*	219	*13%*	5	*31%*	355	*22%*
			Total	19	*100%*	1,635	*100%*	16	*100%*	1,647	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
1o.	Talked about career plans with a faculty member or advisor	FACPLANS (SFI)	Never	2	*11%*	291	*18%*	1	*6%*	242	*15%*
			Sometimes	11	*58%*	762	*47%*	9	*56%*	670	*41%*
			Often	4	*21%*	390	*24%*	2	*13%*	481	*29%*
			Very often	2	*11%*	188	*12%*	4	*25%*	256	*16%*
			Total	19	*100%*	1,631	*100%*	16	*100%*	1,649	*100%*
1p.	Discussed ideas from your readings or classes with faculty members outside of class	FACIDEAS (SFI)	Never	6	*32%*	674	*41%*	5	*31%*	490	*30%*
			Sometimes	7	*37%*	650	*40%*	7	*44%*	749	*45%*
			Often	5	*26%*	219	*13%*	2	*13%*	279	*17%*
			Very often	1	*5%*	90	*6%*	2	*13%*	135	*8%*
			Total	19	*100%*	1,633	*100%*	16	*100%*	1,653	*100%*
1q.	Received prompt written or oral feedback from faculty on your academic performance	FACFEED (SFI)	Never	3	*15%*	119	*7%*	1	*6%*	92	*6%*
			Sometimes	7	*35%*	634	*39%*	5	*31%*	617	*37%*
			Often	4	*20%*	675	*41%*	6	*38%*	702	*43%*
			Very often	6	*30%*	201	*12%*	4	*25%*	236	*14%*
			Total	20	*100%*	1,629	*100%*	16	*100%*	1,647	*100%*
1r.	Worked harder than you thought you could to meet an instructor's standards or expectations	WORKHARD (LAC)	Never	0	*0%*	127	*8%*	3	*19%*	111	*7%*
			Sometimes	7	*35%*	635	*39%*	6	*38%*	587	*36%*
			Often	4	*20%*	621	*38%*	3	*19%*	622	*38%*
			Very often	9	*45%*	244	*15%*	4	*25%*	329	*20%*
			Total	20	*100%*	1,627	*100%*	16	*100%*	1,649	*100%*
1s.	Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.)	FACOTHER (SFI)	Never	12	*60%*	882	*54%*	4	*25%*	708	*43%*
			Sometimes	5	*25%*	486	*30%*	9	*56%*	534	*33%*
			Often	1	*5%*	192	*12%*	0	*0%*	250	*15%*
			Very often	2	*10%*	59	*4%*	3	*19%*	147	*9%*
			Total	20	*100%*	1,619	*100%*	16	*100%*	1,639	*100%*
1t.	Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)	OOCIDEAS (ACL)	Never	0	*0%*	70	*4%*	0	*0%*	41	*2%*
			Sometimes	5	*26%*	561	*34%*	2	*13%*	478	*29%*
			Often	9	*47%*	605	*37%*	10	*63%*	664	*40%*
			Very often	5	*26%*	394	*24%*	4	*25%*	461	*28%*
			Total	19	*100%*	1,630	*100%*	16	*100%*	1,644	*100%*
1u.	Had serious conversations with students of a different race or ethnicity than your own	DIVRSTUD (EEE)	Never	1	*5%*	229	*14%*	0	*0%*	234	*14%*
			Sometimes	7	*35%*	571	*35%*	8	*50%*	656	*40%*
			Often	7	*35%*	465	*29%*	3	*19%*	411	*25%*
			Very often	5	*25%*	365	*22%*	5	*31%*	345	*21%*
			Total	20	*100%*	1,630	*100%*	16	*100%*	1,646	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
1v.	Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values	DIFFSTU2 (EEE)	Never	1	*5%*	126	*8%*	0	*0%*	120	*7%*
			Sometimes	7	*35%*	506	*31%*	7	*44%*	592	*36%*
			Often	6	*30%*	565	*35%*	4	*25%*	510	*31%*
			Very often	6	*30%*	436	*27%*	5	*31%*	427	*26%*
			Total	20	*100%*	1,633	*100%*	16	*100%*	1,649	*100%*
2a.	Coursework emphasizes: **Memorizing** facts, ideas, or methods from your courses and readings	MEMORIZE	Very little	0	*0%*	53	*3%*	0	*0%*	112	*7%*
			Some	3	*15%*	378	*23%*	3	*19%*	458	*28%*
			Quite a bit	7	*35%*	708	*43%*	9	*56%*	603	*37%*
			Very much	10	*50%*	491	*30%*	4	*25%*	470	*29%*
			Total	20	*100%*	1,630	*100%*	16	*100%*	1,643	*100%*
2b.	Coursework emphasizes: **Analyzing** the basic elements of an idea, experience, or theory	ANALYZE (LAC)	Very little	0	*0%*	20	*1%*	0	*0%*	22	*1%*
			Some	0	*0%*	271	*17%*	5	*31%*	181	*11%*
			Quite a bit	7	*35%*	766	*47%*	5	*31%*	691	*42%*
			Very much	13	*65%*	562	*35%*	6	*38%*	745	*45%*
			Total	20	*100%*	1,619	*100%*	16	*100%*	1,639	*100%*
2c.	Coursework emphasizes: **Synthesizing** and organizing ideas, information, or experiences	SYNTHESZ (LAC)	Very little	0	*0%*	57	*4%*	0	*0%*	49	*3%*
			Some	1	*5%*	426	*26%*	2	*13%*	346	*21%*
			Quite a bit	9	*45%*	727	*45%*	8	*50%*	637	*39%*
			Very much	10	*50%*	414	*25%*	6	*38%*	600	*37%*
			Total	20	*100%*	1,624	*100%*	16	*100%*	1,632	*100%*
2d.	Coursework emphasizes: **Making judgments** about the value of information, arguments, or methods	EVALUATE (LAC)	Very little	1	*5%*	67	*4%*	0	*0%*	78	*5%*
			Some	3	*15%*	438	*27%*	7	*44%*	390	*24%*
			Quite a bit	8	*40%*	729	*45%*	5	*31%*	663	*40%*
			Very much	8	*40%*	394	*24%*	4	*25%*	507	*31%*
			Total	20	*100%*	1,628	*100%*	16	*100%*	1,638	*100%*
2e.	Coursework emphasizes: **Applying** theories or concepts to practical problems or in new situations	APPLYING (LAC)	Very little	0	*0%*	55	*3%*	1	*6%*	47	*3%*
			Some	3	*15%*	304	*19%*	3	*19%*	234	*14%*
			Quite a bit	5	*25%*	669	*41%*	7	*44%*	576	*35%*
			Very much	12	*60%*	600	*37%*	5	*31%*	785	*48%*
			Total	20	*100%*	1,628	*100%*	16	*100%*	1,642	*100%*
3a.	Number of assigned textbooks, books, or book-length packs of course readings	READASGN (LAC)	None	0	*0%*	13	*1%*	2	*13%*	25	*2%*
			1-4	3	*15%*	357	*22%*	8	*50%*	552	*34%*
			5-10	10	*50%*	798	*49%*	2	*13%*	618	*38%*
			11-20	5	*25%*	311	*19%*	3	*19%*	266	*16%*
			More than 20	2	*10%*	151	*9%*	1	*6%*	183	*11%*
			Total	20	*100%*	1,630	*100%*	16	*100%*	1,644	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
3b.	Number of books read on your own (not assigned) for personal enjoyment or academic enrichment	READOWN	None	4	*20%*	448	*28%*	2	*13%*	314	*19%*
			1-4	9	*45%*	885	*54%*	7	*44%*	885	*54%*
			5-10	4	*20%*	195	*12%*	3	*19%*	266	*16%*
			11-20	1	*5%*	46	*3%*	1	*6%*	90	*5%*
			More than 20	2	*10%*	54	*3%*	3	*19%*	85	*5%*
			Total	20	*100%*	1,628	*100%*	16	*100%*	1,640	*100%*
3c.	Number of written papers or reports of **20 pages or more**	WRITEMOR (LAC)	None	18	*90%*	1,390	*85%*	12	*75%*	829	*50%*
			1-4	2	*10%*	173	*11%*	3	*19%*	687	*42%*
			5-10	0	*0%*	38	*2%*	1	*6%*	80	*5%*
			11-20	0	*0%*	15	*1%*	0	*0%*	23	*1%*
			More than 20	0	*0%*	11	*1%*	0	*0%*	23	*1%*
			Total	20	*100%*	1,627	*100%*	16	*100%*	1,642	*100%*
3d.	Number of written papers or reports **between 5 and 19 pages**	WRITEMID (LAC)	None	1	*5%*	249	*15%*	1	*6%*	204	*12%*
			1-4	14	*70%*	984	*60%*	12	*75%*	763	*46%*
			5-10	4	*20%*	321	*20%*	2	*13%*	430	*26%*
			11-20	1	*5%*	63	*4%*	1	*6%*	181	*11%*
			More than 20	0	*0%*	12	*1%*	0	*0%*	66	*4%*
			Total	20	*100%*	1,629	*100%*	16	*100%*	1,644	*100%*
3e.	Number of written papers or reports of **fewer than 5 pages**	WRITESML (LAC)	None	0	*0%*	19	*1%*	3	*19%*	96	*6%*
			1-4	3	*15%*	481	*29%*	6	*38%*	536	*33%*
			5-10	10	*50%*	673	*41%*	3	*19%*	514	*31%*
			11-20	4	*20%*	339	*21%*	2	*13%*	294	*18%*
			More than 20	3	*15%*	121	*7%*	2	*13%*	206	*13%*
			Total	20	*100%*	1,633	*100%*	16	*100%*	1,646	*100%*
4a.	Number of problem sets that take you **more** than an hour to complete	PROBSETA	None	0	*0%*	161	*10%*	0	*0%*	269	*16%*
			1-2	4	*20%*	559	*34%*	12	*75%*	539	*33%*
			3-4	6	*30%*	574	*35%*	2	*13%*	442	*27%*
			5-6	4	*20%*	189	*12%*	2	*13%*	176	*11%*
			More than 6	6	*30%*	148	*9%*	0	*0%*	220	*13%*
			Total	20	*100%*	1,631	*100%*	16	*100%*	1,646	*100%*
4b.	Number of problem sets that take you **less** than an hour to complete	PROBSETB	None	4	*20%*	152	*9%*	3	*19%*	472	*29%*
			1-2	3	*15%*	584	*36%*	11	*69%*	637	*39%*
			3-4	6	*30%*	467	*29%*	2	*13%*	311	*19%*
			5-6	3	*15%*	213	*13%*	0	*0%*	92	*6%*
			More than 6	4	*20%*	215	*13%*	0	*0%*	128	*8%*
			Total	20	*100%*	1,631	*100%*	16	*100%*	1,640	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University
Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
5.	Select the circle that best represents the extent to which your examinations during the current school year have challenged you to do your best work.	EXAMS	1 Very little	0	0%	9	1%	0	0%	8	0%
			2	0	0%	10	1%	0	0%	30	2%
			3	0	0%	44	3%	0	0%	56	3%
			4	0	0%	156	10%	2	13%	148	9%
			5	2	10%	542	33%	6	38%	503	31%
			6	11	55%	557	34%	3	19%	587	36%
			7 Very much	7	35%	316	19%	5	31%	313	19%
			Total	20	100%	1,634	100%	16	100%	1,645	100%
6a.	Attended an art exhibit, play, dance, music, theater, or other performance	ATDART07	Never	12	60%	495	30%	5	31%	566	34%
			Sometimes	7	35%	773	48%	10	63%	770	47%
			Often	1	5%	231	14%	1	6%	193	12%
			Very often	0	0%	124	8%	0	0%	114	7%
			Total	20	100%	1,623	100%	16	100%	1,643	100%
6b.	Exercised or participated in physical fitness activities	EXRCSE05	Never	0	0%	61	4%	1	6%	104	6%
			Sometimes	5	25%	397	24%	7	44%	436	27%
			Often	5	25%	496	31%	2	13%	462	28%
			Very often	10	50%	667	41%	6	38%	636	39%
			Total	20	100%	1,621	100%	16	100%	1,638	100%
6c.	Participated in activities to enhance your spirituality (worship, meditation, prayer, etc.)	WORSHP05	Never	10	50%	769	47%	11	69%	769	47%
			Sometimes	3	15%	406	25%	1	6%	450	27%
			Often	3	15%	221	14%	1	6%	182	11%
			Very often	4	20%	230	14%	3	19%	240	15%
			Total	20	100%	1,626	100%	16	100%	1,641	100%
6d.	Examined the strengths and weaknesses of your own views on a topic or issue	OWNVIEW	Never	0	0%	137	8%	1	6%	117	7%
			Sometimes	7	35%	607	37%	5	31%	544	33%
			Often	8	40%	587	36%	4	25%	636	39%
			Very often	5	25%	292	18%	6	38%	335	21%
			Total	20	100%	1,623	100%	16	100%	1,632	100%
6e.	Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	OTHRVIEW	Never	0	0%	79	5%	0	0%	82	5%
			Sometimes	8	40%	522	32%	7	44%	480	29%
			Often	7	35%	644	40%	5	31%	638	39%
			Very often	5	25%	374	23%	4	25%	434	27%
			Total	20	100%	1,619	100%	16	100%	1,634	100%
6f.	Learned something that changed the way you understand an issue or concept	CHNGVIEW	Never	0	0%	40	2%	1	6%	42	3%
			Sometimes	10	50%	499	31%	4	25%	433	26%
			Often	4	20%	671	41%	8	50%	725	44%
			Very often	6	30%	413	25%	3	19%	442	27%
			Total	20	100%	1,623	100%	16	100%	1,642	100%

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
7a.	Practicum, internship, field experience, co-op experience, or clinical assignment	INTERN04 (EEE)	Have not decided	1	*5%*	170	*11%*	1	*6%*	104	*6%*
			Do not plan to do	1	*5%*	50	*3%*	2	*13%*	204	*12%*
			Plan to do	15	*75%*	1,291	*80%*	0	*0%*	425	*26%*
			Done	3	*15%*	103	*6%*	13	*81%*	909	*55%*
			Total	20	*100%*	1,614	*100%*	16	*100%*	1,642	*100%*
7b.	Community service or volunteer work	VOLNTR04 (EEE)	Have not decided	1	*5%*	167	*10%*	1	*6%*	107	*7%*
			Do not plan to do	1	*5%*	72	*4%*	4	*25%*	198	*12%*
			Plan to do	8	*40%*	802	*50%*	2	*13%*	211	*13%*
			Done	10	*50%*	571	*35%*	9	*56%*	1,117	*68%*
			Total	20	*100%*	1,612	*100%*	16	*100%*	1,633	*100%*
7c.	Participate in a learning community or some other formal program where groups of students take two or more classes together	LRNCOM04 (EEE)	Have not decided	7	*35%*	441	*28%*	0	*0%*	168	*10%*
			Do not plan to do	6	*30%*	418	*26%*	11	*69%*	944	*58%*
			Plan to do	1	*5%*	386	*24%*	0	*0%*	113	*7%*
			Done	6	*30%*	357	*22%*	5	*31%*	413	*25%*
			Total	20	*100%*	1,602	*100%*	16	*100%*	1,638	*100%*
7d.	Work on a research project with a faculty member outside of course or program requirements	RESRCH04 (SFI)	Have not decided	3	*15%*	552	*34%*	1	*6%*	260	*16%*
			Do not plan to do	2	*10%*	275	*17%*	2	*13%*	756	*46%*
			Plan to do	10	*50%*	679	*42%*	1	*6%*	240	*15%*
			Done	5	*25%*	102	*6%*	12	*75%*	386	*24%*
			Total	20	*100%*	1,608	*100%*	16	*100%*	1,642	*100%*
7e.	Foreign language coursework	FORLNG04 (EEE)	Have not decided	4	*20%*	358	*22%*	2	*13%*	121	*7%*
			Do not plan to do	8	*40%*	644	*40%*	8	*50%*	907	*55%*
			Plan to do	5	*25%*	346	*21%*	2	*13%*	99	*6%*
			Done	3	*15%*	265	*16%*	4	*25%*	515	*31%*
			Total	20	*100%*	1,613	*100%*	16	*100%*	1,642	*100%*
7f.	Study abroad	STDABR04 (EEE)	Have not decided	6	*30%*	454	*28%*	2	*13%*	137	*8%*
			Do not plan to do	5	*25%*	319	*20%*	9	*56%*	1,132	*69%*
			Plan to do	8	*40%*	806	*50%*	2	*13%*	107	*7%*
			Done	1	*5%*	29	*2%*	3	*19%*	263	*16%*
			Total	20	*100%*	1,608	*100%*	16	*100%*	1,639	*100%*
7g.	Independent study or self-designed major	INDSTD04 (EEE)	Have not decided	2	*10%*	495	*31%*	3	*19%*	148	*9%*
			Do not plan to do	14	*70%*	862	*54%*	7	*44%*	1,088	*67%*
			Plan to do	3	*15%*	202	*13%*	1	*6%*	126	*8%*
			Done	1	*5%*	47	*3%*	5	*31%*	267	*16%*
			Total	20	*100%*	1,606	*100%*	16	*100%*	1,629	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
7h.	Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)	SNRX04 (EEE)	Have not decided	0	*0%*	548	*34%*	0	*0%*	60	*4%*
			Do not plan to do	1	*5%*	148	*9%*	1	*6%*	125	*8%*
			Plan to do	18	*90%*	883	*55%*	8	*50%*	562	*34%*
			Done	1	*5%*	34	*2%*	7	*44%*	892	*54%*
			Total	20	*100%*	1,613	*100%*	16	*100%*	1,639	*100%*
8a.	Quality of relationships with **other students**	ENVSTU (SCE)	1 Unfriendly, Unsupportive, Sense of alienation	0	*0%*	13	*1%*	0	*0%*	13	*1%*
			2	1	*5%*	25	*2%*	0	*0%*	39	*2%*
			3	3	*15%*	61	*4%*	0	*0%*	63	*4%*
			4	0	*0%*	157	*10%*	3	*19%*	155	*9%*
			5	3	*15%*	337	*21%*	5	*31%*	335	*20%*
			6	8	*40%*	542	*34%*	5	*31%*	591	*36%*
			7 Friendly, Supportive, Sense of belonging	5	*25%*	480	*30%*	3	*19%*	444	*27%*
			Total	20	*100%*	1,615	*100%*	16	*100%*	1,640	*100%*
8b.	Quality of relationships with **faculty members**	ENVFAC (SCE)	1 Unavailable, Unhelpful, Unsympathetic	0	*0%*	12	*1%*	0	*0%*	16	*1%*
			2	0	*0%*	25	*2%*	0	*0%*	28	*2%*
			3	2	*10%*	110	*7%*	1	*6%*	97	*6%*
			4	5	*25%*	348	*22%*	3	*19%*	214	*13%*
			5	3	*15%*	464	*29%*	4	*25%*	419	*26%*
			6	8	*40%*	454	*28%*	4	*25%*	579	*35%*
			7 Available, Helpful, Sympathetic	2	*10%*	202	*13%*	4	*25%*	287	*18%*
			Total	20	*100%*	1,615	*100%*	16	*100%*	1,640	*100%*
8c.	Quality of relationships with **administrative personnel and offices**	ENVADM (SCE)	1 Unhelpful, Inconsiderate, Rigid	2	*10%*	26	*2%*	0	*0%*	55	*3%*
			2	1	*5%*	79	*5%*	1	*6%*	113	*7%*
			3	2	*10%*	146	*9%*	2	*13%*	187	*11%*
			4	5	*25%*	417	*26%*	2	*13%*	361	*22%*
			5	4	*20%*	396	*25%*	5	*31%*	405	*25%*
			6	6	*30%*	357	*22%*	2	*13%*	322	*20%*
			7 Helpful, Considerate, Flexible	0	*0%*	193	*12%*	4	*25%*	199	*12%*
			Total	20	*100%*	1,614	*100%*	16	*100%*	1,642	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

			First-Year Students				Seniors			
			Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
	Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
9a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	ACADPR01 (LAC)	0 hrs/wk	0	0%	5	0%	1	6%	3	0%
		1-5 hrs/wk	1	5%	127	8%	2	13%	164	10%
		6-10 hrs/wk	1	5%	348	22%	1	6%	317	19%
		11-15 hrs/wk	3	15%	345	21%	4	25%	331	20%
		16-20 hrs/wk	3	15%	347	22%	2	13%	313	19%
		21-25 hrs/wk	8	40%	213	13%	4	25%	182	11%
		26-30 hrs/wk	0	0%	114	7%	0	0%	135	8%
		30+ hrs/wk	4	20%	106	7%	2	13%	191	12%
		Total	20	100%	1,605	100%	16	100%	1,636	100%
9b. Working for pay **on campus**	WORKON01	0 hrs/wk	16	80%	1,301	81%	4	25%	1,066	65%
		1-5 hrs/wk	1	5%	48	3%	1	6%	46	3%
		6-10 hrs/wk	1	5%	111	7%	3	19%	143	9%
		11-15 hrs/wk	1	5%	81	5%	2	13%	152	9%
		16-20 hrs/wk	0	0%	38	2%	5	31%	101	6%
		21-25 hrs/wk	0	0%	16	1%	0	0%	54	3%
		26-30 hrs/wk	1	5%	4	0%	0	0%	34	2%
		30+ hrs/wk	0	0%	5	0%	1	6%	36	2%
		Total	20	100%	1,604	100%	16	100%	1,632	100%
9c. Working for pay **off campus**	WORKOF01	0 hrs/wk	16	80%	1,285	81%	10	63%	844	51%
		1-5 hrs/wk	1	5%	95	6%	0	0%	107	7%
		6-10 hrs/wk	2	10%	76	5%	1	6%	115	7%
		11-15 hrs/wk	0	0%	53	3%	1	6%	146	9%
		16-20 hrs/wk	0	0%	45	3%	1	6%	145	9%
		21-25 hrs/wk	0	0%	21	1%	2	13%	111	7%
		26-30 hrs/wk	0	0%	8	1%	1	6%	69	4%
		30+ hrs/wk	1	5%	13	1%	0	0%	102	6%
		Total	20	100%	1,596	100%	16	100%	1,639	100%
9d. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	COCURR01 (EEE)	0 hrs/wk	5	25%	542	34%	6	38%	629	38%
		1-5 hrs/wk	8	40%	565	35%	4	25%	539	33%
		6-10 hrs/wk	3	15%	267	17%	1	6%	210	13%
		11-15 hrs/wk	1	5%	147	9%	1	6%	128	8%
		16-20 hrs/wk	2	10%	48	3%	0	0%	67	4%
		21-25 hrs/wk	0	0%	19	1%	2	13%	26	2%
		26-30 hrs/wk	0	0%	9	1%	1	6%	21	1%
		30+ hrs/wk	1	5%	13	1%	1	6%	18	1%
		Total	20	100%	1,610	100%	16	100%	1,638	100%

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
9e.	Relaxing and socializing (watching TV, partying, etc.)	SOCIAL05	0 hrs/wk	0	*0%*	16	*1%*	0	*0%*	13	*1%*
			1-5 hrs/wk	5	*26%*	288	*18%*	5	*31%*	416	*25%*
			6-10 hrs/wk	8	*42%*	483	*30%*	4	*25%*	489	*30%*
			11-15 hrs/wk	3	*16%*	366	*23%*	2	*13%*	349	*21%*
			16-20 hrs/wk	2	*11%*	232	*15%*	4	*25%*	213	*13%*
			21-25 hrs/wk	1	*5%*	108	*7%*	0	*0%*	81	*5%*
			26-30 hrs/wk	0	*0%*	44	*3%*	0	*0%*	24	*1%*
			30+ hrs/wk	0	*0%*	58	*4%*	1	*6%*	48	*3%*
			Total	19	*100%*	1,595	*100%*	16	*100%*	1,633	*100%*
9f.	Providing care for dependents living with you (parents, children, spouse, etc.)	CAREDE01	0 hrs/wk	19	*100%*	1,431	*90%*	14	*88%*	1,245	*76%*
			1-5 hrs/wk	0	*0%*	87	*5%*	1	*6%*	157	*10%*
			6-10 hrs/wk	0	*0%*	29	*2%*	1	*6%*	72	*4%*
			11-15 hrs/wk	0	*0%*	19	*1%*	0	*0%*	43	*3%*
			16-20 hrs/wk	0	*0%*	15	*1%*	0	*0%*	19	*1%*
			21-25 hrs/wk	0	*0%*	4	*0%*	0	*0%*	15	*1%*
			26-30 hrs/wk	0	*0%*	1	*0%*	0	*0%*	6	*0%*
			30+ hrs/wk	0	*0%*	8	*1%*	0	*0%*	71	*4%*
			Total	19	*100%*	1,594	*100%*	16	*100%*	1,628	*100%*
9g.	Commuting to class (driving, walking, etc.)	COMMUTE	0 hrs/wk	1	*5%*	118	*7%*	1	*6%*	46	*3%*
			1-5 hrs/wk	15	*79%*	1,181	*74%*	13	*81%*	1,236	*76%*
			6-10 hrs/wk	1	*5%*	201	*13%*	2	*13%*	252	*15%*
			11-15 hrs/wk	1	*5%*	50	*3%*	0	*0%*	69	*4%*
			16-20 hrs/wk	1	*5%*	26	*2%*	0	*0%*	17	*1%*
			21-25 hrs/wk	0	*0%*	8	*1%*	0	*0%*	2	*0%*
			26-30 hrs/wk	0	*0%*	4	*0%*	0	*0%*	2	*0%*
			30+ hrs/wk	0	*0%*	10	*1%*	0	*0%*	9	*1%*
			Total	19	*100%*	1,598	*100%*	16	*100%*	1,633	*100%*
10a.	Spending significant amounts of time studying and on academic work	ENVSCHOL (LAC)	Very little	0	*0%*	14	*1%*	0	*0%*	22	*1%*
			Some	0	*0%*	190	*12%*	5	*31%*	252	*16%*
			Quite a bit	7	*35%*	749	*47%*	3	*19%*	785	*48%*
			Very much	13	*65%*	649	*41%*	8	*50%*	566	*35%*
			Total	20	*100%*	1,602	*100%*	16	*100%*	1,625	*100%*
10b.	Providing the support you need to help you succeed academically	ENVSUPRT (SCE)	Very little	0	*0%*	19	*1%*	0	*0%*	56	*3%*
			Some	5	*26%*	247	*16%*	3	*19%*	386	*24%*
			Quite a bit	7	*37%*	737	*46%*	8	*50%*	747	*46%*
			Very much	7	*37%*	589	*37%*	5	*31%*	427	*26%*
			Total	19	*100%*	1,592	*100%*	16	*100%*	1,616	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
10c.	Encouraging contact among students from different economic, social, and racial or ethnic backgrounds	ENVDIVRS (EEE)	Very little	0	*0%*	139	*9%*	4	*25%*	310	*19%*
			Some	8	*40%*	449	*28%*	3	*19%*	604	*37%*
			Quite a bit	6	*30%*	550	*35%*	5	*31%*	458	*28%*
			Very much	6	*30%*	455	*29%*	4	*25%*	250	*15%*
			Total	20	*100%*	1,593	*100%*	16	*100%*	1,622	*100%*
10d.	Helping you cope with your non-academic responsibilities (work, family, etc.)	ENVNACAD (SCE)	Very little	6	*30%*	259	*16%*	4	*25%*	559	*34%*
			Some	6	*30%*	639	*40%*	3	*19%*	636	*39%*
			Quite a bit	7	*35%*	479	*30%*	8	*50%*	313	*19%*
			Very much	1	*5%*	220	*14%*	1	*6%*	113	*7%*
			Total	20	*100%*	1,597	*100%*	16	*100%*	1,621	*100%*
10e.	Providing the support you need to thrive socially	ENVSOCAL (SCE)	Very little	4	*20%*	145	*9%*	2	*13%*	343	*21%*
			Some	5	*25%*	553	*35%*	7	*44%*	687	*42%*
			Quite a bit	8	*40%*	592	*37%*	5	*31%*	439	*27%*
			Very much	3	*15%*	304	*19%*	2	*13%*	151	*9%*
			Total	20	*100%*	1,594	*100%*	16	*100%*	1,620	*100%*
10f.	Attending campus events and activities (special speakers, cultural performances, athletic events, etc.)	ENVEVENT	Very little	0	*0%*	54	*3%*	1	*6%*	115	*7%*
			Some	7	*35%*	371	*23%*	6	*38%*	447	*28%*
			Quite a bit	8	*40%*	684	*43%*	7	*44%*	687	*42%*
			Very much	5	*25%*	494	*31%*	2	*13%*	370	*23%*
			Total	20	*100%*	1,603	*100%*	16	*100%*	1,619	*100%*
10g.	Using computers in academic work	ENVCOMPT	Very little	0	*0%*	28	*2%*	0	*0%*	28	*2%*
			Some	4	*20%*	230	*14%*	3	*19%*	145	*9%*
			Quite a bit	5	*25%*	553	*35%*	7	*44%*	507	*31%*
			Very much	11	*55%*	787	*49%*	6	*38%*	940	*58%*
			Total	20	*100%*	1,598	*100%*	16	*100%*	1,620	*100%*
11a.	Acquiring a broad general education	GNGENLED	Very little	0	*0%*	23	*1%*	0	*0%*	46	*3%*
			Some	0	*0%*	278	*17%*	6	*38%*	261	*16%*
			Quite a bit	9	*45%*	732	*46%*	4	*25%*	655	*40%*
			Very much	11	*55%*	558	*35%*	6	*38%*	659	*41%*
			Total	20	*100%*	1,591	*100%*	16	*100%*	1,621	*100%*
11b.	Acquiring job or work-related knowledge and skills	GNWORK	Very little	3	*15%*	108	*7%*	0	*0%*	98	*6%*
			Some	5	*25%*	462	*29%*	4	*25%*	308	*19%*
			Quite a bit	7	*35%*	597	*37%*	7	*44%*	539	*33%*
			Very much	5	*25%*	426	*27%*	5	*31%*	674	*42%*
			Total	20	*100%*	1,593	*100%*	16	*100%*	1,619	*100%*

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Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
	Variable	*Response Options*		*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
11c. Writing clearly and effectively	GNWRITE	Very little		2	*10%*	74	*5%*	1	*6%*	74	*5%*
		Some		4	*20%*	411	*26%*	5	*31%*	357	*22%*
		Quite a bit		10	*50%*	697	*44%*	8	*50%*	669	*41%*
		Very much		4	*20%*	415	*26%*	2	*13%*	521	*32%*
			Total	20	*100%*	1,597	*100%*	16	*100%*	1,621	*100%*
11d. Speaking clearly and effectively	GNSPEAK	Very little		3	*15%*	178	*11%*	3	*19%*	111	*7%*
		Some		5	*25%*	492	*31%*	4	*25%*	426	*26%*
		Quite a bit		7	*35%*	581	*37%*	7	*44%*	601	*37%*
		Very much		5	*25%*	338	*21%*	2	*13%*	475	*29%*
			Total	20	*100%*	1,589	*100%*	16	*100%*	1,613	*100%*
11e. Thinking critically and analytically	GNANALY	Very little		0	*0%*	30	*2%*	0	*0%*	33	*2%*
		Some		2	*10%*	238	*15%*	2	*13%*	169	*10%*
		Quite a bit		6	*30%*	703	*44%*	8	*50%*	573	*35%*
		Very much		12	*60%*	616	*39%*	6	*38%*	841	*52%*
			Total	20	*100%*	1,587	*100%*	16	*100%*	1,616	*100%*
11f. Analyzing quantitative problems	GNQUANT	Very little		0	*0%*	68	*4%*	0	*0%*	83	*5%*
		Some		3	*15%*	378	*24%*	1	*6%*	299	*18%*
		Quite a bit		5	*25%*	656	*41%*	9	*56%*	570	*35%*
		Very much		12	*60%*	488	*31%*	6	*38%*	666	*41%*
			Total	20	*100%*	1,590	*100%*	16	*100%*	1,618	*100%*
11g. Using computing and information technology	GNCMPTS	Very little		0	*0%*	73	*5%*	1	*7%*	75	*5%*
		Some		6	*30%*	366	*23%*	6	*40%*	306	*19%*
		Quite a bit		7	*35%*	632	*40%*	6	*40%*	552	*34%*
		Very much		7	*35%*	523	*33%*	2	*13%*	686	*42%*
			Total	20	*100%*	1,594	*100%*	15	*100%*	1,619	*100%*
11h. Working effectively with others	GNOTHERS	Very little		1	*5%*	79	*5%*	1	*6%*	57	*4%*
		Some		4	*20%*	386	*24%*	4	*25%*	319	*20%*
		Quite a bit		7	*35%*	656	*41%*	6	*38%*	599	*37%*
		Very much		8	*40%*	471	*30%*	5	*31%*	647	*40%*
			Total	20	*100%*	1,592	*100%*	16	*100%*	1,622	*100%*
11i. Voting in local, state, or national elections	GNCITIZN	Very little		12	*60%*	722	*46%*	8	*50%*	551	*34%*
		Some		6	*30%*	499	*32%*	4	*25%*	605	*38%*
		Quite a bit		1	*5%*	242	*15%*	2	*13%*	319	*20%*
		Very much		1	*5%*	120	*8%*	2	*13%*	131	*8%*
			Total	20	*100%*	1,583	*100%*	16	*100%*	1,606	*100%*

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Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
		Variable	*Response Options*	*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
11j.	Learning effectively on your own	GNINQ	Very little	2	*10%*	79	*5%*	1	*6%*	85	*5%*
			Some	1	*5%*	359	*23%*	3	*19%*	326	*20%*
			Quite a bit	7	*35%*	726	*46%*	4	*25%*	653	*41%*
			Very much	10	*50%*	411	*26%*	8	*50%*	538	*34%*
			Total	20	*100%*	1,575	*100%*	16	*100%*	1,602	*100%*
11k.	Understanding yourself	GNSELF	Very little	3	*15%*	130	*8%*	1	*6%*	181	*11%*
			Some	2	*10%*	424	*27%*	8	*50%*	421	*26%*
			Quite a bit	7	*35%*	618	*39%*	5	*31%*	560	*35%*
			Very much	8	*40%*	405	*26%*	2	*13%*	435	*27%*
			Total	20	*100%*	1,577	*100%*	16	*100%*	1,597	*100%*
11l.	Understanding people of other racial and ethnic backgrounds	GNDIVERS	Very little	2	*10%*	197	*12%*	4	*25%*	316	*20%*
			Some	4	*20%*	560	*35%*	8	*50%*	597	*37%*
			Quite a bit	11	*55%*	552	*35%*	2	*13%*	441	*27%*
			Very much	3	*15%*	272	*17%*	2	*13%*	252	*16%*
			Total	20	*100%*	1,581	*100%*	16	*100%*	1,606	*100%*
11m	Solving complex real-world problems	GNPROBSV	Very little	0	*0%*	144	*9%*	3	*19%*	132	*8%*
			Some	8	*40%*	519	*33%*	6	*38%*	445	*28%*
			Quite a bit	8	*40%*	634	*40%*	4	*25%*	579	*36%*
			Very much	4	*20%*	286	*18%*	3	*19%*	449	*28%*
			Total	20	*100%*	1,583	*100%*	16	*100%*	1,605	*100%*
11n.	Developing a personal code of values and ethics	GNETHICS	Very little	2	*10%*	199	*13%*	3	*19%*	250	*16%*
			Some	4	*20%*	465	*29%*	6	*38%*	468	*29%*
			Quite a bit	8	*40%*	552	*35%*	4	*25%*	512	*32%*
			Very much	6	*30%*	362	*23%*	3	*19%*	369	*23%*
			Total	20	*100%*	1,578	*100%*	16	*100%*	1,599	*100%*
11o.	Contributing to the welfare of your community	GNCOMMUN	Very little	2	*10%*	233	*15%*	3	*19%*	244	*15%*
			Some	9	*45%*	532	*34%*	6	*38%*	562	*35%*
			Quite a bit	6	*30%*	529	*33%*	6	*38%*	507	*32%*
			Very much	3	*15%*	287	*18%*	1	*6%*	287	*18%*
			Total	20	*100%*	1,581	*100%*	16	*100%*	1,600	*100%*
11p.	Developing a deepened sense of spirituality	GNSPIRIT	Very little	8	*40%*	678	*43%*	11	*69%*	950	*59%*
			Some	6	*30%*	418	*26%*	4	*25%*	368	*23%*
			Quite a bit	2	*10%*	292	*18%*	1	*6%*	167	*10%*
			Very much	4	*20%*	193	*12%*	0	*0%*	117	*7%*
			Total	20	*100%*	1,581	*100%*	16	*100%*	1,602	*100%*

NSSE national survey of student engagement

NSSE 2012 Engagement Item Frequency Distributions
Colorado State University

Bio-Chemistry & Molecular Biology

				First-Year Students				Seniors			
				Bio-Chemistry & Molecular Biology		Non-Major		Bio-Chemistry & Molecular Biology		Non-Major	
	Variable	*Response Options*		*Count*	*%*	*Count*	*%*	*Count*	*%*	*Count*	*%*
12. Overall, how would you evaluate the quality of academic advising you have received at your institution?	ADVISE	Poor		1	*5%*	39	*2%*	0	*0%*	141	*9%*
		Fair		3	*15%*	187	*12%*	1	*6%*	299	*18%*
		Good		8	*40%*	748	*47%*	9	*56%*	675	*42%*
		Excellent		8	*40%*	622	*39%*	6	*38%*	503	*31%*
			Total	20	*100%*	1,596	*100%*	16	*100%*	1,618	*100%*
13. How would you evaluate your entire educational experience at this institution?	ENTIREXP	Poor		0	*0%*	12	*1%*	0	*0%*	30	*2%*
		Fair		3	*15%*	137	*9%*	0	*0%*	154	*10%*
		Good		6	*30%*	797	*50%*	6	*38%*	770	*48%*
		Excellent		11	*55%*	650	*41%*	10	*63%*	664	*41%*
			Total	20	*100%*	1,596	*100%*	16	*100%*	1,618	*100%*
14. If you could start over again, would you go to the **same institution** you are now attending?	SAMECOLL	Definitely no		1	*5%*	24	*2%*	0	*0%*	56	*3%*
		Probably no		1	*5%*	136	*9%*	1	*6%*	142	*9%*
		Probably yes		10	*50%*	631	*39%*	9	*56%*	647	*40%*
		Definitely yes		8	*40%*	807	*51%*	6	*38%*	773	*48%*
			Total	20	*100%*	1,598	*100%*	16	*100%*	1,618	*100%*