
California State University-Chico

NSSE 2016 Major Field Report, Part II

Comparisons to Other Institutions

Bio, Agric, & Nat Res

*Comparing your students majoring in the fields shown below to those
in the same fields at your comparison group institutions*

The Major Field Report group 'Bio, Agric, & Nat Res' includes the following majors: Biology (general); Agriculture; Biochemistry or biophysics; Biomedical science; Botany; Cell and molecular biology; Environmental science/studies; Marine science; Microbiology or bacteriology; Natural resources and conservation; Natural science; Neuroscience; Physiology and developmental biology; Zoology; Other agriculture and natural resources; Other biological sciences.



Note:

The Major Field Report was formatted for printing. When viewing on screen in Excel, some content may appear truncated or oddly formatted. This is normal. Increasing the zoom level or viewing the report in Print Preview will improve on-screen display.

About Your Major Field Report, Part II

NSSE data serve to identify institutional strengths and weaknesses in reference to selected comparison institutions, yet institution-level comparisons may not capture important variation in student engagement that can be found within key subpopulations such as major. This report displays selected results for students at your institution and at your selected comparison institutions in the major category: Bio, Agric, & Nat Res.

NSSE results included in MFR, Part II

- Engagement Indicators
- High-Impact Practices
- Frequencies and Statistical Comparisons
- Respondent Profile

Related-Major Groups

Self-reported majors (first major given if two were reported) were identified from the survey. Your institution had the option to customize how these were grouped, using up to ten related-major groups. Institutions choosing not to customize their related-major groups receive NSSE's ten default groups. The majors used in this report are listed on the cover page of this report.

Sample

This report is based on information from all randomly selected or census-administered students in the indicated group of majors for both your institution and your comparison institutions. Targeted and locally administered oversamples and other non-randomly selected students are not included.

Class

Results are presented separately by institution-reported class level. Keep in mind that majors are student-reported. First-year students may report *intended* majors that have not yet been *declared*. Also, much of the first-year experience may take place outside of the major field. For these reasons, first-year results should be interpreted with caution.

Technical Requirements

Related-major groups with fewer than 20 respondents in a given class are not reported (columns are blank). Comparison groups must also contain at least 20 respondents in the major category, or they remain blank. Although 20 is a minimum requirement, keep in mind that any statistical result requires a sufficient number of respondents per group to produce a reliable estimate. Due to the disaggregation of results by student-reported major, the Major Field Report results are unweighted.

Report Sections

Engagement Indicators (pp. 3-7)	Results on NSSE's ten Engagement Indicators (EIs) organized into four themes. See your <i>Engagement Indicators</i> report for more details.
High-Impact Practices (p. 8)	Results on student participation in six High-Impact Practices (HIPs). See your <i>High-Impact Practices</i> report for more details.
Frequencies and Statistical Comparisons (pp. 9-44)	Response frequencies and statistical comparisons (including tests of significance and effect sizes) for all survey items except the demographics for your institution and your three core comparison groups.
Respondent Profile (pp. 45-51)	Response frequencies for all demographic questions for your institution and your three core comparison groups.

Engagement Indicators: Overview

Engagement Indicators are summary measures based on sets of NSSE questions examining key dimensions of student engagement. The ten indicators are organized within four themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores^a for your students in this related-major category with students in your comparison groups within the same category.

Use the following key:

- ▲ **Your students' average** was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.
- △ **Your students' average** was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.
- No significant difference.
- ▼ **Your students' average** was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.
- ▽ **Your students' average** was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.

		First-Year Students in Bio, Agric, & Nat Res			Seniors in Bio, Agric, & Nat Res		
Theme	Engagement Indicator	Your first-year students compared with Far West Public	Your first-year students compared with Carnegie Class	Your first-year students compared with NSSE 2015 & 2016	Your seniors compared with Far West Public	Your seniors compared with Carnegie Class	Your seniors compared with NSSE 2015 & 2016
Academic Challenge	Higher-Order Learning				--	--	--
	Reflective & Integrative Learning				--	--	--
	Learning Strategies				--	--	--
	Quantitative Reasoning				--	--	--
Learning with Peers	Collaborative Learning				--	--	--
	Discussions with Diverse Others				--	--	--
Experiences with Faculty	Student-Faculty Interaction				--	▼	▽
	Effective Teaching Practices				--	--	--
Campus Environment	Quality of Interactions				--	--	--
	Supportive Environment				▼	▼	▼

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
CSU, Chico (N = 67)	37.7	15.3	1.87	10	30	40	45	60				
Far West Public	40.1	14.4	.37	15	30	40	50	60	1,546	-2.4		-.165
Carnegie Class	40.9	14.0	.21	15	30	40	50	60	4,338	-3.2		-.227
NSSE 2015 & 2016	40.0	14.0	.10	15	30	40	50	60	19,120	-2.3		-.166
Reflective & Integrative Learning												
CSU, Chico (N = 67)	38.5	12.9	1.57	17	31	40	49	60				
Far West Public	37.5	12.9	.33	17	29	37	46	60	1,579	1.0		.077
Carnegie Class	37.3	12.7	.19	17	29	37	46	60	4,418	1.3		.100
NSSE 2015 & 2016	37.4	12.5	.09	17	29	37	46	60	19,484	1.1		.090
Learning Strategies												
CSU, Chico (N = 67)	39.4	14.3	1.75	20	33	40	53	60				
Far West Public	40.5	14.3	.37	20	33	40	53	60	1,558	-1.1		-.075
Carnegie Class	41.7	14.0	.21	20	33	40	53	60	4,368	-2.3		-.164
NSSE 2015 & 2016	40.9	14.2	.10	20	33	40	53	60	19,265	-1.5		-.103
Quantitative Reasoning												
CSU, Chico (N = 67)	35.4	15.8	1.93	7	27	33	47	60				
Far West Public	34.7	16.1	.42	7	20	33	47	60	1,575	.7		.043
Carnegie Class	35.1	15.8	.24	7	20	33	47	60	4,409	.4		.023
NSSE 2015 & 2016	34.7	15.8	.11	7	20	33	47	60	19,435	.8		.048
Learning with Peers												
Collaborative Learning												
CSU, Chico (N = 66)	36.1	12.5	1.53	20	25	35	45	60				
Far West Public	35.3	14.4	.37	15	25	35	45	60	1,549	.9		.060
Carnegie Class	36.2	14.1	.22	15	25	35	45	60	4,366	.0		-.002
NSSE 2015 & 2016	35.8	13.9	.10	15	25	35	45	60	19,222	.3		.021
Discussions with Diverse Others												
CSU, Chico (N = 64)	40.5	16.4	2.05	15	30	40	55	60				
Far West Public	42.5	15.9	.41	15	30	40	60	60	1,566	-2.0		-.125
Carnegie Class	41.2	15.5	.24	15	30	40	60	60	4,390	-.7		-.042
NSSE 2015 & 2016	41.2	15.5	.11	15	30	40	55	60	19,352	-.6		-.039

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Engagement Indicators: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
CSU, Chico (N = 67)	22.9	16.9	2.07	0	10	20	35	60				
Far West Public	24.6	16.3	.42	0	10	20	35	60	1,569	-1.7		-.102
Carnegie Class	28.1	16.2	.25	5	15	25	40	60	4,377	-5.2	**	-.318
NSSE 2015 & 2016	27.2	16.1	.12	5	15	25	40	60	19,276	-4.3	*	-.269
Effective Teaching Practices												
CSU, Chico (N = 67)	38.7	13.6	1.66	16	28	40	50	60				
Far West Public	39.5	13.3	.34	16	32	40	48	60	1,584	-.8		-.061
Carnegie Class	41.4	13.1	.20	20	32	40	52	60	4,434	-2.7		-.210
NSSE 2015 & 2016	40.6	12.9	.09	20	32	40	52	60	19,526	-1.9		-.149
Campus Environment												
Quality of Interactions												
CSU, Chico (N = 63)	39.8	13.7	1.72	14	34	43	50	56				
Far West Public	41.0	11.9	.31	18	34	42	50	60	1,518	-1.2		-.099
Carnegie Class	42.5	11.3	.17	22	36	44	50	60	4,316	-2.7		-.235
NSSE 2015 & 2016	42.1	11.4	.08	20	36	44	50	60	19,006	-2.2		-.198
Supportive Environment												
CSU, Chico (N = 68)	26.7	14.1	1.70	3	18	26	35	50				
Far West Public	32.0	14.3	.37	10	23	31	40	60	1,582	-5.3	**	-.372
Carnegie Class	33.7	14.2	.22	10	23	33	43	60	4,412	-7.0	***	-.496
NSSE 2015 & 2016	33.9	13.8	.10	11	25	35	43	60	19,446	-7.2	***	-.523

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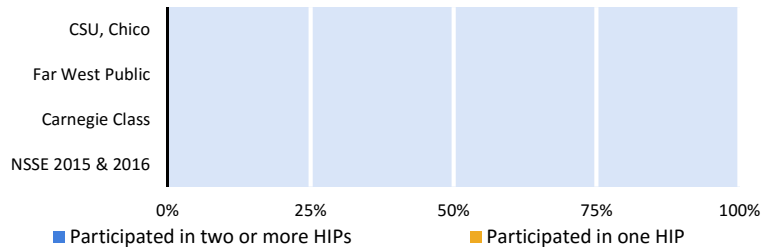
High-Impact Practices: Bio, Agric, & Nat Res

California State University-Chico

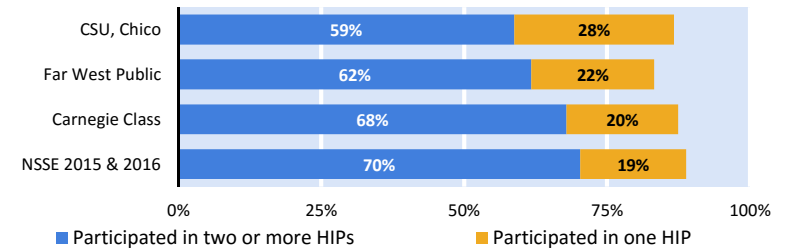
Overall HIP Participation^a

The figures below display the percentage^h of students who participated in High-Impact Practices. Both figures include participation in a learning community, service-learning, and research with faculty. The Senior figure also includes participation in an internship or field experience, study abroad, and culminating senior experience. The first segment in each bar shows the percentage of students who participated in at least two HIPs, and the full bar (both colors) represents the percentage who participated in at least one.

First-Year Students in Bio, Agric, & Nat Res



Seniors in Bio, Agric, & Nat Res



Statistical Comparisons^a

The table below compares the percentage^h of your students who participated in a High-Impact Practice, including the percentage who participated overall (at least one, two or more), with those at institutions in your comparison groups.

	CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
	%		% ⁱ	Effect size ^j	% ⁱ	Effect size ^j	% ⁱ	Effect size ^j
<i>First-Year Students in Bio, Agric, & Nat Res</i>								
11c. Learning community								
12. Service-learning								
11e. Research with faculty								
Participated in at least one								
Participated in two or more								
<i>Seniors in Bio, Agric, & Nat Res</i>								
11c. Learning community	15		23	-.22	26 *	-.28	26 *	-.29
12. Service-learning	57		54	.06	60	-.06	57	.00
11e. Research with faculty	31		40	-.20	45 *	-.29	49 **	-.37
11a. Internship or field exp.	49		51	-.04	50	-.02	55	-.12
11d. Study abroad	3		13 *	-.38	16 **	-.48	20 ***	-.58
11f. Culminating senior exp.	40		38	.03	48	-.17	49	-.19
Participated in at least one	87		83	.10	87	-.02	89	-.06
Participated in two or more	59		62	-.06	68	-.19	70 *	-.24

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Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				CSU, Chico				NSSE 2015 & 2016				Your seniors compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
1. During the current school year, about how often have you done the following?																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	0	0	55	4	73	2	474	2	3.0	3.0	.10	3.1	-.11	3.1	-.03	
		2	Sometimes	25	37	478	31	1,044	24	5,149	26								
		3	Often	14	21	461	30	1,454	33	6,349	33								
		4	Very often	28	42	525	35	1,802	41	7,517	39								
		Total		67	100	1,519	100	4,373	100	19,489	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	18	27	279	18	883	20	4,062	21	2.3	2.5	-.18	2.4	-.14	2.4	-.10	
		2	Sometimes	22	33	532	35	1,545	35	7,122	37								
		3	Often	17	25	430	28	1,153	26	4,960	26								
		4	Very often	10	15	276	18	784	18	3,283	17								
		Total		67	100	1,517	100	4,365	100	19,427	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	3	4	118	8	245	6	1,190	6	2.9	2.9	-.01	3.0	-.16	3.0	-.08	
		2	Often	10	15	229	15	560	13	2,781	14								
		3	Sometimes	45	67	855	56	2,419	55	11,076	57								
		4	Never	9	13	313	21	1,136	26	4,374	23								
		Total		67	100	1,515	100	4,360	100	19,421	100								
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendart	1	Never	35	52	771	51	1,902	44	7,609	39	1.5	1.7	-.17	1.8 ***	-.32	1.9 ***	-.40	
		2	Sometimes	29	43	548	36	1,676	38	7,973	41								
		3	Often	3	4	146	10	523	12	2,574	13								
		4	Very often	0	0	53	3	260	6	1,274	7								
		Total		67	100	1,518	100	4,361	100	19,430	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	2	3	130	9	343	8	1,492	8	2.7	2.6	.04	2.6	.02	2.6	.02	
		2	Sometimes	32	48	624	41	1,728	40	7,781	40								
		3	Often	20	30	450	30	1,427	33	6,440	33								
		4	Very often	13	19	310	20	857	20	3,708	19								
		Total		67	100	1,514	100	4,355	100	19,421	100								
f. Explained course material to one or more students	CLexplain	1	Never	2	3	32	2	108	2	369	2	3.0	2.9	.03	3.0	-.01	3.0	.00	
		2	Sometimes	19	28	452	30	1,196	27	5,431	28								
		3	Often	25	37	590	39	1,754	40	8,015	41								
		4	Very often	21	31	434	29	1,301	30	5,596	29								
		Total		67	100	1,508	100	4,359	100	19,411	100								

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California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k						
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ	
														Far West Public	Carnegie Class			NSSE 2015 & 2016
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	9	14	191	13	494	11	2,088	11	2.6	2.7	-.08	2.7	-.14	2.7	-.13
		2	Sometimes	24	36	525	35	1,420	33	6,565	34							
		3	Often	19	29	409	27	1,282	29	5,885	30							
		4	Very often	14	21	390	26	1,167	27	4,909	25							
		Total		66	100	1,515	100	4,363	100	19,447	100							
h. Worked with other students on course projects or assignments	CLproject	1	Never	0	0	73	5	189	4	819	4	3.1	2.8 *	.26	2.9	.19	2.9	.23
		2	Sometimes	18	27	523	34	1,293	30	6,232	32							
		3	Often	27	40	512	34	1,673	38	7,254	37							
		4	Very often	22	33	410	27	1,218	28	5,143	26							
		Total		67	100	1,518	100	4,373	100	19,448	100							
i. Given a course presentation	present	1	Never	7	10	182	12	377	9	1,817	9	2.7	2.6	.10	2.7	.01	2.7	.06
		2	Sometimes	20	30	532	35	1,457	33	6,922	36							
		3	Often	24	36	457	30	1,530	35	6,507	33							
		4	Very often	16	24	344	23	1,005	23	4,196	22							
		Total		67	100	1,515	100	4,369	100	19,442	100							
2. During the current school year, about how often have you done the following?																		
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	2	3	50	3	114	3	473	2	3.1	3.0	.12	3.0	.12	3.0	.12
		2	Sometimes	13	19	375	25	1,116	26	4,986	26							
		3	Often	28	42	617	41	1,753	40	7,919	41							
		4	Very often	24	36	476	31	1,377	32	6,067	31							
		Total		67	100	1,518	100	4,360	100	19,445	100							
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	3	5	106	7	283	7	1,199	6	2.9	2.8	.17	2.8	.20	2.8	.20
		2	Sometimes	15	23	492	33	1,482	34	6,616	34							
		3	Often	31	47	531	35	1,554	36	7,041	36							
		4	Very often	17	26	384	25	1,024	24	4,520	23							
		Total		66	100	1,513	100	4,343	100	19,376	100							
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	10	15	227	15	606	14	2,638	14	2.4	2.5	-.04	2.5	-.05	2.5	-.07
		2	Sometimes	30	45	632	42	1,830	42	7,969	41							
		3	Often	16	24	389	26	1,202	28	5,564	29							
		4	Very often	11	16	265	18	713	16	3,228	17							
		Total		67	100	1,513	100	4,351	100	19,399	100							

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California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k						
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ	
														Mean	Effect size ⁿ			
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	6	9	91	6	257	6	1,032	5	2.8	2.8	.01	2.8	.05	2.8	.03
		2	Sometimes	17	25	475	32	1,413	33	6,342	33							
		3	Often	28	42	590	39	1,752	40	7,866	41							
		4	Very often	16	24	348	23	917	21	4,124	21							
		Total		67	100	1,504	100	4,339	100	19,364	100							
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	RIperspect	1	Never	5	7	66	4	184	4	734	4	2.9	2.9	.04	2.9	.07	2.9	.06
		2	Sometimes	16	24	419	28	1,234	28	5,545	29							
		3	Often	24	36	618	41	1,841	42	8,172	42							
		4	Very often	22	33	407	27	1,086	25	4,922	25							
		Total		67	100	1,510	100	4,345	100	19,373	100							
f. Learned something that changed the way you understand an issue or concept	RInewview	1	Never	3	5	41	3	108	2	427	2	3.0	3.0	.01	2.9	.04	2.9	.04
		2	Sometimes	16	24	399	26	1,208	28	5,427	28							
		3	Often	27	41	653	43	1,873	43	8,395	43							
		4	Very often	20	30	417	28	1,156	27	5,124	26							
		Total		66	100	1,510	100	4,345	100	19,373	100							
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	1	1	17	1	37	1	193	1	3.3	3.2	.09	3.2	.12	3.2	.11
		2	Sometimes	8	12	241	16	695	16	2,984	15							
		3	Often	28	42	623	41	1,920	44	8,595	44							
		4	Very often	30	45	626	42	1,688	39	7,555	39							
		Total		67	100	1,507	100	4,340	100	19,327	100							
3. During the current school year, about how often have you done the following?																		
a. Talked about career plans with a faculty member	SFcareer	1	Never	12	18	236	16	475	11	2,292	12	2.3	2.4	-.18	2.6 **	-.39	2.6 **	-.34
		2	Sometimes	35	52	635	42	1,622	37	7,476	39							
		3	Often	10	15	375	25	1,249	29	5,435	28							
		4	Very often	10	15	267	18	1,007	23	4,182	22							
		Total		67	100	1,513	100	4,353	100	19,385	100							
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	33	49	629	42	1,419	33	6,270	32	1.9	2.0	-.18	2.2 **	-.32	2.2 **	-.33
		2	Sometimes	19	28	420	28	1,361	31	6,096	31							
		3	Often	7	10	242	16	871	20	3,896	20							
		4	Very often	8	12	224	15	695	16	3,100	16							
		Total		67	100	1,515	100	4,346	100	19,362	100							

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Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k																
				CSU, Chico				Far West Public				Carnegie Class				NSSE 2015 & 2016				Your seniors compared with								
				Count		%		Count		%		Count		%		Count		%		Mean		Effect size ⁿ		Mean		Effect size ⁿ		
Item wording or description	Variable name ^l	Values ^m	Response options																									
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	20	30	374	25	735	17	3,517	18	2.2	2.2	-.04	2.4 *	-.24	2.4	-.19										
		2	Sometimes	25	37	611	40	1,748	40	7,987	41																	
		3	Often	11	16	323	21	1,140	26	4,911	25																	
		4	Very often	11	16	205	14	723	17	2,938	15																	
		Total		67	100	1,513	100	4,346	100	19,353	100																	
d. Discussed your academic performance with a faculty member	SFperform	1	Never	16	24	357	24	787	18	3,866	20	2.3	2.2	.08	2.4	-.10	2.3	-.02										
		2	Sometimes	30	45	674	45	1,825	42	8,575	44																	
		3	Often	8	12	311	21	1,105	25	4,387	23																	
		4	Very often	13	19	169	11	624	14	2,503	13																	
		Total		67	100	1,511	100	4,341	100	19,331	100																	
4. During the current school year, how much has your coursework emphasized the following?																												
a. Memorizing course material	memorize	1	Very little	0	0	41	3	118	3	517	3	3.1	3.2	-.08	3.1	-.04	3.1	-.04										
		2	Some	15	23	279	18	849	19	3,666	19																	
		3	Quite a bit	29	44	570	38	1,713	39	7,883	41																	
		4	Very much	22	33	624	41	1,677	38	7,360	38																	
		Total		66	100	1,514	100	4,357	100	19,426	100																	
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	3	4	44	3	93	2	462	2	3.0	3.1	-.20	3.2 *	-.28	3.1	-.21										
		2	Some	16	24	259	17	652	15	3,296	17																	
		3	Quite a bit	27	40	641	43	1,897	44	8,532	44																	
		4	Very much	21	31	562	37	1,703	39	7,092	37																	
		Total		67	100	1,506	100	4,345	100	19,382	100																	
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	5	7	56	4	156	4	705	4	2.9	3.1	-.21	3.1 *	-.25	3.1	-.19										
		2	Some	12	18	293	19	781	18	3,969	21																	
		3	Quite a bit	34	51	622	41	1,827	42	7,966	41																	
		4	Very much	16	24	539	36	1,580	36	6,706	35																	
		Total		67	100	1,510	100	4,344	100	19,346	100																	
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	6	9	107	7	269	6	1,326	7	2.8	2.9	-.10	2.9	-.15	2.9	-.10										
		2	Some	19	28	399	26	1,096	25	5,197	27																	
		3	Quite a bit	26	39	595	39	1,728	40	7,604	39																	
		4	Very much	16	24	406	27	1,242	29	5,219	27																	
		Total		67	100	1,507	100	4,335	100	19,346	100																	

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k						
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
				Count	%	Count	%	Count	%	Count	%							
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	8	12	98	7	228	5	1,076	6	2.9	2.9	-.06	3.0	-.10	2.9	-.06
		2	Some	9	13	377	25	1,039	24	4,925	25							
		3	Quite a bit	34	51	580	39	1,779	41	7,787	40							
		4	Very much	16	24	448	30	1,293	30	5,545	29							
		Total		67	100	1,503	100	4,339	100	19,333	100							
5. During the current school year, to what extent have your instructors done the following?																		
a. Clearly explained course goals and requirements	ETgoals	1	Very little	3	4	23	2	69	2	296	2	3.1	3.2	-.09	3.2	-.15	3.2	-.12
		2	Some	11	16	254	17	632	14	2,898	15							
		3	Quite a bit	28	42	652	43	1,873	43	8,782	45							
		4	Very much	25	37	592	39	1,794	41	7,482	38							
		Total		67	100	1,521	100	4,368	100	19,458	100							
b. Taught course sessions in an organized way	ETorganize	1	Very little	0	0	40	3	107	2	433	2	3.1	3.1	.03	3.1	-.05	3.1	-.03
		2	Some	17	25	283	19	706	16	3,279	17							
		3	Quite a bit	26	39	708	47	1,988	46	9,094	47							
		4	Very much	24	36	489	32	1,559	36	6,632	34							
		Total		67	100	1,520	100	4,360	100	19,438	100							
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	0	0	33	2	81	2	401	2	3.2	3.2	.05	3.3	-.06	3.2	-.02
		2	Some	11	17	257	17	599	14	2,727	14							
		3	Quite a bit	28	43	609	40	1,721	40	7,950	41							
		4	Very much	26	40	616	41	1,955	45	8,325	43							
		Total		65	100	1,515	100	4,356	100	19,403	100							
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	10	15	175	12	406	9	2,014	10	2.6	2.6	-.07	2.8	-.23	2.7	-.16
		2	Some	20	31	526	35	1,249	29	5,999	31							
		3	Quite a bit	22	34	476	31	1,524	35	6,568	34							
		4	Very much	13	20	340	22	1,178	27	4,827	25							
		Total		65	100	1,517	100	4,357	100	19,408	100							
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	11	16	141	9	265	6	1,364	7	2.6	2.8	-.13	2.9 *	-.31	2.8	-.23
		2	Some	16	24	447	29	1,098	25	5,383	28							
		3	Quite a bit	27	40	579	38	1,793	41	7,754	40							
		4	Very much	13	19	350	23	1,185	27	4,844	25							
		Total		67	100	1,517	100	4,341	100	19,345	100							

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California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

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				CSU, Chico				Far West Public				Carnegie Class				NSSE 2015 & 2016				Your seniors compared with			
Item wording or description	Variable name ^l	Values ^m	Response options	Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ					
				%	%	%	%	%	%	NSSE 2015 & 2016	NSSE 2015 & 2016												
6. During the current school year, about how often have you done the following?																							
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	3	4	75	5	181	4	924	5	2.9	2.9	-.02	3.0	-.06	2.9	-.02					
		2	Sometimes	15	22	407	27	1,107	25	5,144	26												
		3	Often	34	51	587	39	1,775	41	7,805	40												
		4	Very often	15	22	450	30	1,305	30	5,594	29												
			Total	67	100	1,519	100	4,368	100	19,467	100												
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	8	12	215	14	584	13	2,685	14	2.8	2.6	.19	2.6	.16	2.6	.18					
		2	Sometimes	19	28	543	36	1,464	34	6,735	35												
		3	Often	21	31	432	28	1,395	32	6,018	31												
		4	Very often	19	28	332	22	923	21	4,016	21												
			Total	67	100	1,522	100	4,366	100	19,454	100												
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	7	10	154	10	441	10	1,928	10	2.6	2.7	-.06	2.7	-.05	2.7	-.05					
		2	Sometimes	25	37	494	33	1,420	33	6,464	33												
		3	Often	20	30	519	34	1,564	36	6,837	35												
		4	Very often	15	22	346	23	935	21	4,204	22												
			Total	67	100	1,513	100	4,360	100	19,433	100												
7. During the current school year, about how many papers, reports, or other writing tasks of the following length have you been assigned? (Include those not yet completed.)																							
a. Up to 5 pages	wrshortnum	0	None	5	8	97	7	217	5	1,098	6	8.9	7.6	.19	7.4	.23	7.3	.24					
		1.5	1-2	14	21	272	18	839	20	3,778	20												
	(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	13	20	436	30	1,246	29	5,468	29												
		8	6-10	11	17	301	20	916	21	4,143	22												
		13	11-15	7	11	153	10	485	11	2,050	11												
		18	16-20	7	11	80	5	248	6	1,052	6												
		23	More than 20	9	14	138	9	317	7	1,443	8												
			Total	66	100	1,477	100	4,268	100	19,032	100												
b. Between 6 and 10 pages	wrmednum	0	None	16	25	310	21	905	21	4,178	22	2.9	3.3	-.12	3.3	-.10	3.2	-.07					
		1.5	1-2	28	44	534	36	1,609	38	7,228	38												
	(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	12	19	386	26	1,070	25	4,714	25												
		8	6-10	4	6	162	11	431	10	1,803	10												
		13	11-15	2	3	42	3	137	3	582	3												
		18	16-20	2	3	15	1	53	1	191	1												
		23	More than 20	0	0	20	1	40	1	199	1												
			Total	64	100	1,469	100	4,245	100	18,895	100												

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California State University-Chico

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				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. 11 pages or more	wrlongnum	0	None	37	59	698	49	1,976	48	8,540	46	1.3	1.5	-.07	1.6	-.08	1.6	-.09	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	21	33	515	36	1,581	38	7,240	39								
		4	3-5	2	3	155	11	373	9	1,781	10								
		8	6-10	1	2	35	2	129	3	525	3								
		13	11-15	0	0	16	1	54	1	213	1								
		18	16-20	2	3	7	0	18	0	90	0								
		23	More than 20	0	0	9	1	24	1	141	1								
		Total			63	100	1,435	100	4,155	100	18,530	100							
Estimated number of assigned pages of student writing.	wpages	(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)		69.1		70.2	-.01	70.1	-.01	69.8	-.01								
8. During the current school year, about how often have you had discussions with people from the following groups?																			
a. People of a race or ethnicity other than your own	DDrace	1	Never	5	8	53	3	216	5	944	5	3.0	3.2	-.24	3.1	-.07	3.1	-.06	
		2	Sometimes	16	24	297	20	1,053	24	4,823	25								
		3	Often	18	27	423	28	1,283	29	5,560	29								
		4	Very often	27	41	746	49	1,818	42	8,160	42								
			Total	66	100	1,519	100	4,370	100	19,487	100								
b. People from an economic background other than your own	DDeconomic	1	Never	2	3	58	4	157	4	746	4	3.1	3.2	-.12	3.1	-.04	3.1	-.05	
		2	Sometimes	18	28	302	20	979	22	4,282	22								
		3	Often	19	29	484	32	1,516	35	6,664	34								
		4	Very often	26	40	672	44	1,713	39	7,756	40								
			Total	65	100	1,516	100	4,365	100	19,448	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	2	3	82	5	222	5	1,069	5	3.0	3.1	-.08	3.0	-.02	3.0	-.01	
		2	Sometimes	18	27	330	22	1,062	24	4,748	24								
		3	Often	22	33	445	29	1,375	32	5,956	31								
		4	Very often	24	36	659	43	1,701	39	7,669	39								
			Total	66	100	1,516	100	4,360	100	19,442	100								
d. People with political views other than your own	DDpolitical	1	Never	4	6	87	6	227	5	1,006	5	3.0	3.0	-.02	3.0	-.04	3.0	-.03	
		2	Sometimes	18	28	396	26	1,066	24	4,953	26								
		3	Often	18	28	454	30	1,433	33	6,207	32								
		4	Very often	25	38	579	38	1,626	37	7,224	37								
			Total	65	100	1,516	100	4,352	100	19,390	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

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				CSU, Chico				NSSE 2015 & 2016				Your seniors compared with						
Item wording or description	Variable name ^l	Values ^m	Response options	CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico	Far West Public	Carnegie Class	NSSE 2015 & 2016			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
9. During the current school year, about how often have you done the following?																		
a. Identified key information from reading assignments	LSreading	1	Never	0	0	28	2	69	2	333	2	3.2	3.3	-.13	3.3	-.10	3.3	-.10
		2	Sometimes	12	18	218	14	625	14	2,830	15							
		3	Often	31	46	571	38	1,786	41	7,822	40							
		4	Very often	24	36	704	46	1,884	43	8,477	44							
		Total		67	100	1,521	100	4,364	100	19,462	100							
b. Reviewed your notes after class	LSnotes	1	Never	3	4	88	6	223	5	1,182	6	3.0	2.9	.06	3.0	-.05	2.9	.03
		2	Sometimes	16	24	475	31	1,118	26	5,583	29							
		3	Often	28	42	437	29	1,384	32	5,871	30							
		4	Very often	20	30	517	34	1,627	37	6,784	35							
		Total		67	100	1,517	100	4,352	100	19,420	100							
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	5	7	105	7	243	6	1,167	6	2.8	2.9	-.13	3.0 *	-.25	2.9	-.19
		2	Sometimes	21	31	440	29	1,074	25	5,183	27							
		3	Often	26	39	486	32	1,509	35	6,681	35							
		4	Very often	15	22	472	31	1,503	35	6,263	32							
		Total		67	100	1,503	100	4,329	100	19,294	100							
10. During the current school year, to what extent have your courses challenged you to do your best work?																		
challenge		1	Not at all	1	1	7	0	25	1	95	0	5.4	5.7 *	-.25	5.8 **	-.32	5.7 *	-.24
		2		0	0	17	1	47	1	179	1							
		3		5	7	48	3	85	2	505	3							
		4		3	4	139	9	310	7	1,545	8							
		5		28	42	383	25	1,151	26	5,591	29							
		6		16	24	461	30	1,407	32	6,363	33							
		7	Very much	14	21	459	30	1,334	31	5,148	27							
		Total		67	100	1,514	100	4,359	100	19,426	100							
11. Which of the following have you done or do you plan to do before you graduate?^o																		
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		5	7	131	9	336	8	1,424	7	49%	51%	-.04	50%	-.02	55%	-.12
		Do not plan to do		4	6	201	13	761	17	3,074	16							
		Plan to do		26	38	418	28	1,103	25	4,324	22							
		Done or in progress		33	49	768	51	2,165	50	10,628	55							
		Total		68	100	1,518	100	4,365	100	19,450	100							

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			CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016				
Item wording or description	Variable name ^l	Values ^m	Response options	Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ			
				%	%	%	%	%	%	Effect size ⁿ	Effect size ⁿ										
b. Hold a formal leadership role in a student organization or group	leader	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	8	12	143	9	372	9	1,491	8	30%	33%	-.08	43% *	-.26	47% **	▼	-.36		
			Do not plan to do	31	46	762	50	1,840	42	7,486	39										
			Plan to do	8	12	105	7	292	7	1,293	7										
			Done or in progress	20	30	506	33	1,853	43	9,151	47										
			Total	67	100	1,516	100	4,357	100	19,421	100										
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	9	13	190	13	525	12	2,141	11	15%	23%	-.22	26% *	-.28	26% *	▼	-.29		
			Do not plan to do	42	62	829	55	2,325	53	10,731	55										
			Plan to do	7	10	140	9	373	9	1,465	8										
			Done or in progress	10	15	355	23	1,125	26	5,064	26										
			Total	68	100	1,514	100	4,348	100	19,401	100										
d. Participate in a study abroad program	abroad	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	6	9	207	14	496	11	1,953	10	3%	13% *	▼	-.38	16% **	▼	-.48	20% ***	▼	-.58
			Do not plan to do	51	75	977	65	2,839	65	12,201	63										
			Plan to do	9	13	138	9	304	7	1,365	7										
			Done or in progress	2	3	190	13	704	16	3,862	20										
			Total	68	100	1,512	100	4,343	100	19,381	100										
e. Work with a faculty member on a research project	research	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	11	16	191	13	485	11	1,850	10	31%	40%	-.20	45% *	▼	-.29	49% **	▼	-.37	
			Do not plan to do	22	32	410	27	1,294	30	5,398	28										
			Plan to do	14	21	303	20	627	14	2,649	14										
			Done or in progress	21	31	610	40	1,946	45	9,473	49										
			Total	68	100	1,514	100	4,352	100	19,370	100										
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	7	10	191	13	378	9	1,547	8	40%	38%	.03	48%	▼	-.17	49%	▼	-.19	
			Do not plan to do	12	18	461	30	1,020	23	4,891	25										
			Plan to do	22	32	283	19	858	20	3,469	18										
			Done or in progress	27	40	579	38	2,088	48	9,489	49										
			Total	68	100	1,514	100	4,344	100	19,396	100										

12. About how many of your courses at this institution have included a community-based project (service-learning)?

servcourse	1	2	3	4	Total	Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
1	None	29	43	690	46	1,737	40	8,309	43	1.7	1.6	.18	1.7	.07	1.6	.14			
2	Some	30	44	736	49	2,340	54	10,003	52										
3	Most	8	12	79	5	235	5	960	5										
4	All	1	1	10	1	47	1	151	1										
Total		68	100	1,515	100	4,359	100	19,423	100										

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				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
					%		%		%		%							
13. Indicate the quality of your interactions with the following people at your institution.																		
a. Students	QIstudent	1	Poor	1	1	16	1	48	1	220	1	5.5						
		2		2	3	24	2	66	2	292	1							
		3		3	4	59	4	166	4	762	4							
		4		4	6	133	9	398	9	1,732	9							
		5		20	29	355	23	1,041	24	4,714	24							
		6		21	31	465	31	1,317	30	5,924	30							
		7	Excellent	17	25	459	30	1,322	30	5,781	30							
		—	Not applicable	0	0	11	1	14	0	62	0							
			Total	68	100	1,522	100	4,372	100	19,487	100							
b. Academic advisors	QIadvisor	1	Poor	5	7	91	6	224	5	966	5	5.0						
		2		7	10	82	5	210	5	1,004	5							
		3		4	6	128	8	309	7	1,480	8							
		4		9	13	212	14	519	12	2,315	12							
		5		7	10	293	19	797	18	3,494	18							
		6		10	15	308	20	911	21	4,036	21							
		7	Excellent	24	35	383	25	1,355	31	6,008	31							
		—	Not applicable	2	3	24	2	36	1	161	1							
			Total	68	100	1,521	100	4,361	100	19,464	100							
c. Faculty	QIfaculty	1	Poor	2	3	35	2	49	1	265	1	5.2						
		2		5	7	42	3	81	2	376	2							
		3		3	4	85	6	169	4	840	4							
		4		10	15	183	12	433	10	2,007	10							
		5		14	21	353	23	976	22	4,642	24							
		6		14	21	431	28	1,338	31	5,998	31							
		7	Excellent	20	29	377	25	1,279	29	5,174	27							
		—	Not applicable	0	0	9	1	16	0	68	0							
			Total	68	100	1,515	100	4,341	100	19,370	100							

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
																			Far West Public
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	6	9	85	6	226	5	963	5	4.7	4.7	-.03	4.9	-.12	4.8	-.10	
		2		3	4	80	5	187	4	976	5								
		3		2	3	111	7	336	8	1,555	8								
		4		7	10	213	14	623	14	2,796	14								
		5		13	19	289	19	878	20	4,064	21								
		6		13	19	254	17	835	19	3,730	19								
		7	Excellent	7	10	207	14	706	16	3,000	15								
		—	Not applicable	17	25	276	18	558	13	2,333	12								
	Total	68	100	1,515	100	4,349	100	19,417	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	7	10	97	6	246	6	1,113	6	4.4	4.7	-.17	4.8 *	-.25	4.8	-.22	
		2		5	7	99	7	267	6	1,181	6								
		3		4	6	132	9	378	9	1,760	9								
		4		15	22	253	17	673	15	3,170	16								
		5		13	19	358	24	977	22	4,451	23								
		6		13	19	271	18	917	21	3,917	20								
		7	Excellent	7	10	235	15	764	18	3,113	16								
		—	Not applicable	4	6	76	5	138	3	738	4								
	Total	68	100	1,521	100	4,360	100	19,443	100										
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	2	3	34	2	68	2	299	2	3.1	3.2	-.18	3.3	-.24	3.3	-.24	
		2	Some	10	15	226	15	560	13	2,547	13								
		3	Quite a bit	35	52	620	41	1,886	43	8,310	43								
		4	Very much	20	30	637	42	1,844	42	8,274	43								
			Total	67	100	1,517	100	4,358	100	19,430	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	8	12	89	6	182	4	822	4	2.8	2.9	-.21	3.0 **	-.36	3.0 **	-.31	
		2	Some	15	22	352	23	858	20	4,167	22								
		3	Quite a bit	31	46	642	43	1,871	43	8,271	43								
		4	Very much	14	21	425	28	1,423	33	6,068	31								
			Total	68	100	1,508	100	4,334	100	19,328	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	6	9	104	7	258	6	1,166	6	2.6	2.9 **	-.38	3.0 ***	-.46	3.0 ***	-.43	
		2	Some	25	37	350	23	933	21	4,296	22								
		3	Quite a bit	27	40	588	39	1,658	38	7,504	39								
		4	Very much	10	15	473	31	1,492	34	6,387	33								
			Total	68	100	1,515	100	4,341	100	19,353	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k						
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ	
														Mean	Effect size ⁿ		Mean	Effect size ⁿ
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	18	26	302	20	733	17	3,256	17	2.4	2.5	-0.15	2.6	-0.21	2.5	-0.19
		2	Some	17	25	471	31	1,388	32	6,455	33							
		3	Quite a bit	24	35	413	27	1,283	30	5,657	29							
		4	Very much	9	13	329	22	945	22	4,011	21							
		Total		68	100	1,515	100	4,349	100	19,379	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	8	12	136	9	328	8	1,292	7	2.6	2.8	-0.23	2.9 **	-0.36	2.9 **	-0.39
		2	Some	27	40	449	30	1,083	25	4,892	25							
		3	Quite a bit	20	29	558	37	1,675	39	7,527	39							
		4	Very much	13	19	370	24	1,252	29	5,643	29							
		Total		68	100	1,513	100	4,338	100	19,354	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	12	18	153	10	423	10	1,699	9	2.6	2.8	-0.19	2.8	-0.23	2.8 *	-0.26
		2	Some	17	25	423	28	1,124	26	4,957	26							
		3	Quite a bit	25	37	535	35	1,603	37	7,267	38							
		4	Very much	14	21	403	27	1,189	27	5,433	28							
		Total		68	100	1,514	100	4,339	100	19,356	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	34	50	589	39	1,512	35	6,498	34	1.8	2.0 *	-0.25	2.1 **	-0.34	2.1 **	-0.33
		2	Some	22	32	497	33	1,452	33	6,938	36							
		3	Quite a bit	7	10	279	18	876	20	3,905	20							
		4	Very much	5	7	150	10	505	12	2,016	10							
		Total		68	100	1,515	100	4,345	100	19,357	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	20	30	228	15	573	13	2,077	11	2.0	2.6 ***	-0.59	2.7 ***	-0.67	2.7 ***	-0.77
		2	Some	30	45	480	32	1,277	29	5,488	28							
		3	Quite a bit	13	19	503	33	1,535	35	7,120	37							
		4	Very much	4	6	303	20	948	22	4,651	24							
		Total		67	100	1,514	100	4,333	100	19,336	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	25	37	337	22	833	19	3,380	17	2.0	2.3 *	-0.26	2.4 **	-0.39	2.5 ***	-0.42
		2	Some	21	31	584	39	1,521	35	6,999	36							
		3	Quite a bit	16	24	397	26	1,283	30	5,785	30							
		4	Very much	6	9	194	13	694	16	3,151	16							
		Total		68	100	1,512	100	4,331	100	19,315	100							

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ		
														Far West Public	Carnegie Class		NSSE 2015 & 2016	Far West Public	Carnegie Class
15. About how many hours do you spend in a typical 7-day week doing the following?																			
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmpprephrs	0	0 hrs	0	0	2	0	6	0	46	0	14.9	16.9	-.22	16.7	-.20	16.5	-.18	
	(Recoded version of tmpprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	9	13	142	9	417	10	1,918	10								
		8	6-10 hrs	18	26	301	20	876	20	3,873	20								
		13	11-15 hrs	13	19	302	20	837	19	3,852	20								
		18	16-20 hrs	11	16	268	18	806	18	3,668	19								
		23	21-25 hrs	7	10	187	12	563	13	2,469	13								
		28	26-30 hrs	3	4	132	9	381	9	1,567	8								
		33	More than 30 hrs	7	10	183	12	477	11	2,048	11								
	Total			68	100	1,517	100	4,363	100	19,441	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	26	38	706	47	1,571	36	6,030	31	3.3	4.2	-.14	5.4 ***	-.29	5.9 ***	-.36	
	(Recoded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	28	41	430	29	1,375	32	6,372	33								
		8	6-10 hrs	9	13	152	10	638	15	3,119	16								
		13	11-15 hrs	4	6	105	7	311	7	1,710	9								
		18	16-20 hrs	1	1	60	4	194	4	1,034	5								
		23	21-25 hrs	0	0	29	2	114	3	544	3								
		28	26-30 hrs	0	0	11	1	63	1	247	1								
		33	More than 30 hrs	0	0	14	1	74	2	294	2								
	Total			68	100	1,507	100	4,340	100	19,350	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	47	70	1,005	67	2,733	63	11,233	58	3.1	4.5	-.19	4.3	-.16	4.9 *	-.24	
	(Recoded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	7	10	63	4	337	8	1,576	8								
		8	6-10 hrs	2	3	124	8	511	12	2,638	14								
		13	11-15 hrs	6	9	113	7	339	8	1,703	9								
		18	16-20 hrs	4	6	151	10	279	6	1,459	8								
		23	21-25 hrs	1	1	26	2	80	2	432	2								
		28	26-30 hrs	0	0	18	1	30	1	176	1								
		33	More than 30 hrs	0	0	11	1	44	1	181	1								
	Total			67	100	1,511	100	4,353	100	19,398	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k													
				CSU, Chico				Far West Public				Carnegie Class				NSSE 2015 & 2016				Your seniors compared with					
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	Effect size ⁿ	Effect size ⁿ	Effect size ⁿ	Effect size ⁿ				
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	29	43	773	51	2,010	46	10,393	54	9.9	9.2	.06	10.0	-.01	8.2	.15							
	(Recoded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	6	9	65	4	262	6	1,101	6														
	8	6-10 hrs	7	10	110	7	343	8	1,364	7															
	13	11-15 hrs	4	6	99	7	298	7	1,312	7															
	18	16-20 hrs	6	9	150	10	426	10	1,655	9															
	23	21-25 hrs	5	7	111	7	331	8	1,268	7															
	28	26-30 hrs	3	4	70	5	248	6	837	4															
	33	More than 30 hrs	7	10	130	9	419	10	1,380	7															
	Total			67	100	1,508	100	4,337	100	19,310	100														
Estimated number of hours working for pay	tmworkhrs											13.1	13.6	-.04	14.2	-.10	13.1	.00							
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	34	50	698	46	1,858	43	8,041	42	2.6	3.4	-.15	3.3	-.13	3.3	-.13							
	(Recoded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	23	34	524	35	1,755	41	8,065	42														
	8	6-10 hrs	8	12	166	11	413	10	1,855	10															
	13	11-15 hrs	2	3	56	4	149	3	671	3															
	18	16-20 hrs	1	1	33	2	76	2	353	2															
	23	21-25 hrs	0	0	14	1	37	1	153	1															
	28	26-30 hrs	0	0	5	0	9	0	57	0															
	33	More than 30 hrs	0	0	14	1	34	1	110	1															
	Total			68	100	1,510	100	4,331	100	19,305	100														
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	1	1	46	3	92	2	424	2	10.8	10.3	.05	10.4	.04	10.7	.00							
	(Recoded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	26	38	475	31	1,264	29	5,187	27														
	8	6-10 hrs	10	15	397	26	1,263	29	5,621	29															
	13	11-15 hrs	13	19	260	17	797	18	3,744	19															
	18	16-20 hrs	11	16	159	11	459	11	2,225	12															
	23	21-25 hrs	2	3	83	5	205	5	973	5															
	28	26-30 hrs	1	1	27	2	74	2	435	2															
	33	More than 30 hrs	4	6	63	4	178	4	715	4															
	Total			68	100	1,510	100	4,332	100	19,324	100														

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

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California State University-Chico

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				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with					
														Far West Public		Carnegie Class		NSSE 2015 & 2016	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	45	67	988	65	3,002	69	14,370	74	4.2	4.9	-.07	4.1	.01	3.4	.10	
	(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	9	13	188	12	519	12	1,984	10								
	8	6-10 hrs	5	7	98	6	228	5	863	4									
	13	11-15 hrs	1	1	48	3	136	3	522	3									
	18	16-20 hrs	2	3	36	2	99	2	356	2									
	23	21-25 hrs	0	0	21	1	45	1	190	1									
	28	26-30 hrs	0	0	18	1	25	1	134	1									
	33	More than 30 hrs	5	7	114	8	280	6	942	5									
	Total		67	100	1,511	100	4,334	100	19,361	100									
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	3	4	91	6	758	17	3,622	19	4.8	5.9	-.19	4.9	-.03	4.6	.03	
	(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	48	71	870	58	2,306	53	10,652	55								
	8	6-10 hrs	12	18	367	24	837	19	3,356	17									
	13	11-15 hrs	4	6	98	6	261	6	1,021	5									
	18	16-20 hrs	0	0	38	3	104	2	367	2									
	23	21-25 hrs	0	0	18	1	42	1	155	1									
	28	26-30 hrs	0	0	9	1	7	0	63	0									
	33	More than 30 hrs	1	1	21	1	41	1	190	1									
	Total		68	100	1,512	100	4,356	100	19,426	100									
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
reading	1	Very little	13	19	183	12	611	14	2,774	14	2.7	2.8	-.13	2.7	-.03	2.7	-.04		
	(Revised for 2014. Comparison data are limited to NSSE 2014 participating institutions.)	2	Some	19	28	466	31	1,397	32	6,277								32	
	3	About half	17	25	416	27	1,255	29	5,287	27									
	4	Most	15	22	323	21	806	19	3,746	19									
	5	Almost all	4	6	126	8	276	6	1,298	7									
	Total		68	100	1,514	100	4,345	100	19,382	100									
tmreadinghrs	(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)										6.8	8.1	-.19	7.5	-.11	7.5	-.10		

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

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Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
	tmreadinghrscol	1	0 hrs	0	0	2	0	5	0	42	0								
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	31	46	647	43	1,972	46	8,883	46								
		3	More than 5, up to 10 hrs	23	34	443	29	1,281	30	5,682	29								
		4	More than 10, up to 15 hrs	5	7	174	12	489	11	2,115	11								
		5	More than 15, up to 20 hrs	5	7	109	7	275	6	1,318	7								
		6	More than 20, up to 25 hrs	4	6	89	6	232	5	954	5								
		7	More than 25 hrs	0	0	44	3	74	2	319	2								
			Total	68	100	1,508	100	4,328	100	19,313	100								

17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

a. Writing clearly and effectively	pgwrite	1	Very little	9	13	109	7	254	6	1,214	6	2.7	▼	3.0 *	-0.33	▼	3.0 *	-0.36	▼	3.0 **	-0.33
		2	Some	22	32	335	22	946	22	4,413	23										
		3	Quite a bit	19	28	551	36	1,725	39	7,455	38										
		4	Very much	18	26	526	35	1,445	33	6,375	33										
			Total	68	100	1,521	100	4,370	100	19,457	100										
b. Speaking clearly and effectively	pgspeak	1	Very little	10	15	151	10	336	8	1,594	8	2.7		2.8	-0.16	2.9	-0.25	2.9	-0.22		
		2	Some	18	26	385	25	1,021	23	4,763	25										
		3	Quite a bit	23	34	528	35	1,662	38	7,144	37										
		4	Very much	17	25	455	30	1,349	31	5,922	30										
			Total	68	100	1,519	100	4,368	100	19,423	100										
c. Thinking critically and analytically	pgthink	1	Very little	6	9	53	3	109	2	440	2	3.0	▼	3.2 *	-0.30	▼	3.3 ***	-0.43	▼	3.3 **	-0.41
		2	Some	14	21	216	14	511	12	2,430	13										
		3	Quite a bit	22	32	550	36	1,549	35	6,993	36										
		4	Very much	26	38	696	46	2,195	50	9,560	49										
			Total	68	100	1,515	100	4,364	100	19,423	100										
d. Analyzing numerical and statistical information	pganalyze	1	Very little	4	6	61	4	188	4	821	4	3.1		3.1	-0.06	3.1	-0.04	3.1	-0.02		
		2	Some	14	21	304	20	846	19	3,941	20										
		3	Quite a bit	23	34	528	35	1,630	37	7,263	37										
		4	Very much	27	40	619	41	1,698	39	7,390	38										
			Total	68	100	1,512	100	4,362	100	19,415	100										

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k						
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ	
														Mean	Effect size ⁿ		Mean	Effect size ⁿ
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	12	18	226	15	500	11	2,317	12	2.6	2.7	-0.09	2.8	-0.16	2.8	-0.15
		2	Some	19	28	422	28	1,216	28	5,496	28							
		3	Quite a bit	21	31	450	30	1,478	34	6,262	32							
		4	Very much	16	24	418	28	1,172	27	5,354	28							
		Total		68	100	1,516	100	4,366	100	19,429	100							
f. Working effectively with others	pgothers	1	Very little	5	7	114	8	225	5	1,024	5	2.8	2.9	-0.09	3.0	-0.19	3.0	-0.17
		2	Some	18	26	371	25	984	23	4,523	23							
		3	Quite a bit	28	41	552	36	1,705	39	7,582	39							
		4	Very much	17	25	476	31	1,443	33	6,273	32							
		Total		68	100	1,513	100	4,357	100	19,402	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	16	24	279	18	578	13	2,637	14	2.3	2.6 *	-0.27	2.7 ***	-0.44	2.7 ***	-0.42
		2	Some	26	38	443	29	1,169	27	5,328	27							
		3	Quite a bit	15	22	409	27	1,397	32	6,078	31							
		4	Very much	11	16	387	25	1,220	28	5,386	28							
		Total		68	100	1,518	100	4,364	100	19,429	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	19	28	214	14	582	13	2,524	13	2.2	2.7 ***	-0.43	2.7 ***	-0.45	2.7 ***	-0.45
		2	Some	24	35	462	30	1,326	30	5,990	31							
		3	Quite a bit	15	22	454	30	1,355	31	6,014	31							
		4	Very much	10	15	386	25	1,105	25	4,917	25							
		Total		68	100	1,516	100	4,368	100	19,445	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	11	16	205	14	491	11	2,118	11	2.5	2.7	-0.20	2.7 *	-0.30	2.7 *	-0.29
		2	Some	23	34	466	31	1,241	28	5,704	29							
		3	Quite a bit	24	36	486	32	1,511	35	6,770	35							
		4	Very much	9	13	357	24	1,120	26	4,823	25							
		Total		67	100	1,514	100	4,363	100	19,415	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	21	31	291	19	653	15	2,914	15	2.4	2.5	-0.16	2.6	-0.24	2.6 *	-0.24
		2	Some	13	19	447	30	1,390	32	6,190	32							
		3	Quite a bit	22	32	432	29	1,324	30	5,855	30							
		4	Very much	12	18	335	22	974	22	4,390	23							
		Total		68	100	1,505	100	4,341	100	19,349	100							

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

California State University-Chico

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k						
				CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
					%		%		%		%							
18. How would you evaluate your entire educational experience at this institution?																		
	evalexp	1	Poor	5	7	51	3	96	2	467	2	2.9	3.1	-.21	3.2 **	-.40	3.2 ***	-.41
		2	Fair	13	19	256	17	561	13	2,406	12							
		3	Good	32	47	719	47	1,967	45	8,715	45							
		4	Excellent	18	26	497	33	1,751	40	7,912	41							
			Total	68	100	1,523	100	4,375	100	19,500	100							
19. If you could start over again, would you go to the same institution you are now attending?																		
	sameinst	1	Definitely no	8	12	89	6	251	6	1,063	5	2.9	3.1	-.20	3.1	-.23	3.2 *	-.28
		2	Probably no	12	18	252	17	711	16	2,846	15							
		3	Probably yes	25	37	616	40	1,717	39	7,702	39							
		4	Definitely yes	22	33	568	37	1,697	39	7,907	41							
			Total	67	100	1,525	100	4,376	100	19,518	100							

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

California State University-Chico

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a								
Item wording or description	Variable name	Response options	CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
20a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One									61	90	1,347	88	3,855	88	16,932	87	
		More than one									7	10	180	12	534	12	2,630	13	
		Total									68	100	1,527	100	4,389	100	19,562	100	
First major or expected first major, in NSSE's default related-major categories. <i>(Does not reflect any customization made for the Major Field Report)</i>	MAJfirstcol <i>(Recoded from MAJfirst.)</i>	Arts & Humanities									0	0	0	0	0	0	0	0	
		Biological Sci., Agriculture, & Natural Resources									68	100	1,527	100	4,389	100	19,563	100	
		Physical Sci., Mathematics, & Computer Science									0	0	0	0	0	0	0	0	0
		Social Sciences									0	0	0	0	0	0	0	0	0
		Business									0	0	0	0	0	0	0	0	0
		Communications, Media, & Public Relations									0	0	0	0	0	0	0	0	0
		Education									0	0	0	0	0	0	0	0	0
		Engineering									0	0	0	0	0	0	0	0	0
		Health Professions									0	0	0	0	0	0	0	0	0
		Social Service Professions									0	0	0	0	0	0	0	0	0
		All Other									0	0	0	0	0	0	0	0	0
		Undecided, Undeclared									0	0	0	0	0	0	0	0	0
		Total									68	100	1,527	100	4,389	100	19,563	100	
Second major or expected second major, in NSSE's default related-major categories. <i>(Does not reflect any customization made for the Major Field Report)</i>	MAJsecondcol <i>(Recoded from MAJsecond.)</i>	Arts & Humanities									0	0	36	20	99	19	507	19	
		Biological Sci., Agriculture, & Natural Resources									6	86	46	26	107	20	607	23	
		Physical Sci., Mathematics, & Computer Science									0	0	11	6	85	16	315	12	
		Social Sciences									0	0	48	27	78	15	558	21	
		Business									0	0	3	2	8	2	56	2	
		Communications, Media, & Public Relations									0	0	1	1	7	1	35	1	
		Education									0	0	4	2	31	6	82	3	
		Engineering									0	0	3	2	3	1	32	1	
		Health Professions									1	14	16	9	73	14	272	10	
		Social Service Professions									0	0	5	3	22	4	56	2	
		All Other									0	0	5	3	8	2	70	3	
		Undecided, Undeclared									0	0	2	1	7	1	23	1	
		Total									7	100	180	100	528	100	2,613	100	

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

California State University-Chico

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
21. What is your class level?	class	Freshman/First-year									0	0	4	0	6	0	25	0
		Sophomore									0	0	14	1	15	0	128	1
		Junior									9	13	91	6	287	7	1,554	8
		Senior									54	79	1,378	91	3,950	91	17,415	90
		Unclassified									5	7	32	2	94	2	336	2
		Total										68	100	1,519	100	4,352	100	19,458
22. Thinking about this current academic term, are you a full-time student?	fulltime	No									9	13	259	17	575	13	2,318	12
		Yes									59	87	1,252	83	3,763	87	17,038	88
		Total									68	100	1,511	100	4,338	100	19,356	100
23a. How many courses are you taking for credit this current academic term?	coursenum	0									4	6	43	3	70	2	294	2
		1									0	0	48	3	80	2	331	2
		2									2	3	92	6	217	5	800	4
		3									10	15	218	14	499	11	2,027	10
		4									21	31	461	30	1,280	29	6,091	31
		5									16	24	332	22	1,229	28	5,500	28
		6									9	13	141	9	527	12	2,369	12
		7 or more									6	9	184	12	461	11	2,058	11
Total										68	100	1,519	100	4,363	100	19,470	100	
b. Of these, how many are entirely online?	onlinenum	0									62	93	1,216	80	3,515	81	15,809	82
		1									3	4	199	13	576	13	2,553	13
		2									1	1	57	4	149	3	620	3
		3									1	1	18	1	49	1	222	1
		4									0	0	16	1	32	1	99	1
		5									0	0	0	0	7	0	24	0
		6									0	0	5	0	10	0	29	0
		7 or more									0	0	2	0	7	0	31	0
Total										67	100	1,513	100	4,345	100	19,387	100	
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum)	onlinecrsol	No courses taken online									62	93	1,216	80	3,515	81	15,809	82
		Some courses taken online									5	7	262	17	723	17	3,308	17
		All courses taken online									0	0	35	2	107	2	270	1
		Total									67	100	1,513	100	4,345	100	19,387	100

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

California State University-Chico

Bio, Agric, & Nat Res

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	NSSE 2015 & 2016								NSSE 2015 & 2016											
			CSU, Chico		Far West Public		Carnegie Class		2015		2016		CSU, Chico		Far West Public		Carnegie Class		2015		2016	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
24. What have most of your grades been up to now at this institution?	grades	C- or lower									0	0	6	0	24	1	76	0				
		C									5	7	50	3	107	2	486	3				
		C+									6	9	84	6	200	5	840	4				
		B-									12	18	157	10	327	8	1,369	7				
		B									18	26	363	24	868	20	3,751	19				
		B+									10	15	254	17	793	18	3,528	18				
		A-									8	12	251	17	831	19	3,797	20				
		A									9	13	351	23	1,207	28	5,593	29				
Total										68	100	1,516	100	4,357	100	19,440	100					
25. Did you begin college at this institution or elsewhere?	begincol	Started here									17	25	740	49	2,695	62	12,954	67				
		Started elsewhere									51	75	777	51	1,662	38	6,485	33				
		Total									68	100	1,517	100	4,357	100	19,439	100				
26. Since graduating from high school, which of the following types of schools have you attended <i>other than</i> the one you are now attending? (Select all that apply.)	attend_voc attend_com attend_col attend_none attend_other	Vocational or technical school									5	7	96	6	223	5	863	4				
		Community or junior college									51	75	794	52	1,536	35	6,073	31				
		4-year college or university other than this one									14	21	362	24	1,060	24	4,417	23				
		None									12	18	531	35	2,065	47	10,005	52				
		Other									1	1	47	3	150	3	586	3				
27. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree									3	4	56	4	159	4	609	3				
		Bachelor's degree (B.A., B.S., etc.)									25	37	354	23	809	19	3,377	17				
		Master's degree (M.A., M.S., etc.)									19	28	382	25	1,210	28	5,025	26				
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)									21	31	723	48	2,169	50	10,380	54				
		Total									68	100	1,515	100	4,347	100	19,391	100				

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

California State University-Chico

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
28. What is the highest level of education completed by either of your parents (or those who raised you)?	parented	Did not finish high school									10	15	140	9	191	4	759	4
		High school diploma or G.E.D.									14	21	279	18	775	18	2,846	15
		Attended college, but did not complete degree									12	18	195	13	487	11	1,809	9
		Associate's degree (A.A., A.S., etc.)									6	9	149	10	472	11	1,904	10
		Bachelor's degree (B.A., B.S., etc.)									12	18	395	26	1,271	29	5,695	29
		Master's degree (M.A., M.S., etc.)									13	19	217	14	776	18	4,019	21
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)									1	1	144	9	375	9	2,378	12
		Total										68	100	1,519	100	4,347	100	19,410
First-generation status (No parent holds a bachelor's degree)	firstgen (Recoded from parented)	Not first-generation									26	38	756	50	2,422	56	12,092	62
		First-generation									42	62	763	50	1,925	44	7,318	38
		Total									68	100	1,519	100	4,347	100	19,410	100
29. What is your gender identity?	genderid	Man									30	44	501	33	1,397	32	6,582	34
		Woman									37	54	976	64	2,882	66	12,482	64
		Another gender identity									0	0	11	1	23	1	95	0
		I prefer not to respond									1	1	28	2	44	1	262	1
		Total									68	100	1,516	100	4,346	100	19,421	100
30. Enter your year of birth (e.g., 1994):	agecat (Recoded from the information entered in birthyear)	19 or younger									1	1	13	1	41	1	191	1
		20-23									40	60	917	61	3,185	74	15,042	78
		24-29									19	28	383	25	683	16	2,581	13
		30-39									7	10	133	9	281	7	1,061	5
		40-55									0	0	55	4	119	3	394	2
		Over 55									0	0	3	0	11	0	37	0
Total										67	100	1,504	100	4,320	100	19,306	100	
31a. Are you an international student?	internat	No									68	100	1,476	98	4,225	98	18,735	97
		Yes									0	0	31	2	88	2	525	3
		Total									68	100	1,507	100	4,313	100	19,260	100
International student country of citizenship, collapsed into regions by NSSE. Responses to country are in the data file. U.S. (domestic) students did not receive this question.	countrycol (Recoded from country.)	Africa Sub-Saharan									0	0	1	3	9	11	71	14
		Asia									0	0	11	35	25	30	205	42
		Canada									0	0	2	6	9	11	33	7
		Europe									0	0	8	26	20	24	76	15
		Latin America and Caribbean									0	0	2	6	13	16	77	16
		Middle East and North Africa									0	0	3	10	5	6	21	4
		Oceania									0	0	4	13	2	2	8	2
		Unknown region/uncoded									0	0	0	0	0	0	0	0
Total										0	0	31	100	83	100	491	100	

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

California State University-Chico

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
32. What is your racial or ethnic identification? (Select all that apply.)	re_amind	American Indian or Alaska Native									2	3	61	4	102	2	397	2
	re_asian	Asian									9	13	362	24	388	9	2,099	11
	re_black	Black or African American									2	3	55	4	272	6	1,286	7
	re_latino	Hispanic or Latino									6	9	256	17	455	10	1,956	10
	re_pacific	Native Hawaiian or Other Pacific Islander									1	1	81	5	28	1	180	1
	re_white	White									50	74	838	55	3,169	73	13,836	71
	re_other	Other									3	4	76	5	113	3	513	3
	re_pnr	I prefer not to respond									6	9	84	6	183	4	816	4
	Racial or ethnic identification	re_all	American Indian or Alaska Native									0	0	12	1	26	1	94
(Recoded from re_amind through re_pnr where each student is represented only once)		Asian									6	9	258	17	303	7	1,646	8
		Black or African American									1	1	31	2	220	5	1,069	6
		Hispanic or Latino									4	6	187	12	315	7	1,365	7
		Native Hawaiian/Other Pac. Islander									0	0	19	1	7	0	46	0
		White									41	60	658	43	2,903	67	12,608	65
		Other									1	1	40	3	70	2	313	2
		Multiracial									9	13	226	15	318	7	1,444	7
		I prefer not to respond									6	9	84	6	183	4	816	4
	Total									68	100	1,515	100	4,345	100	19,401	100	
33. Are you a member of a social fraternity or sorority?	greek	No									64	96	1,423	94	3,942	91	17,149	89
		Yes									3	4	88	6	402	9	2,204	11
		Total									67	100	1,511	100	4,344	100	19,353	100
34. Which of the following best describes where you are living while attending college?	living	Dormitory or other campus housing (not fraternity or sorority house)									0	0	90	6	849	20	4,229	22
		Fraternity or sorority house									0	0	10	1	48	1	307	2
		Residence (house, apartment, etc.) within walking distance to the institution									34	51	373	25	1,012	23	5,434	28
		Residence (house, apartment, etc.) farther than walking distance to the institution									30	45	1,002	66	2,304	53	9,006	47
		None of the above									3	4	37	2	124	3	391	2
		Total									67	100	1,512	100	4,337	100	19,367	100
35. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No									66	99	1,468	97	3,999	92	17,789	92
		Yes									1	1	42	3	328	8	1,540	8
		Total									67	100	1,510	100	4,327	100	19,329	100

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

California State University-Chico

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
36. Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard?	veteran	No									62	93	1,428	95	4,138	96	18,694	97
		Yes									5	7	77	5	190	4	640	3
		Total									67	100	1,505	100	4,328	100	19,334	100
37a. Have you been diagnosed with any disability or impairment?	disability	No									55	82	1,280	85	3,764	87	16,748	86
		Yes									12	18	161	11	453	10	2,018	10
		I prefer not to respond									0	0	69	5	128	3	613	3
		Total									67	100	1,510	100	4,345	100	19,379	100
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense	A sensory impairment (vision or hearing)									1	8	20	12	56	12	238	12
	dis_mobility	A mobility impairment									0	0	18	11	50	11	158	8
	dis_learning	A learning disability (e.g., ADHD, dyslexia)									4	33	76	47	220	49	935	46
	dis_mental	A mental health disorder									5	42	52	32	174	38	808	40
	dis_other	A disability or impairment not listed above									4	33	37	23	79	17	376	19
Disability or impairment	disability_all	A sensory impairment									0	0	13	1	31	1	143	1
	(Recoded from disability and dis_sense through dis_other where each student is represented only once)	A mobility impairment									0	0	8	1	25	1	76	0
		A learning disability									2	3	56	4	147	3	653	3
		A mental health disorder									4	6	27	2	100	2	487	3
		A disability or impairment not listed									4	6	23	2	43	1	229	1
		More than one disability or impairment									2	3	34	2	106	2	424	2
		No disability or impairment									55	82	1,280	85	3,764	87	16,748	86
38. Which of the following best describes your sexual orientation? (Question administered per institution request)	sexorient14	Heterosexual									--	--	856	82	1,281	85	8,052	85
		Gay									--	--	23	2	23	2	168	2
		Lesbian									--	--	14	1	17	1	91	1
		Bisexual									--	--	50	5	64	4	400	4
		Another sexual orientation									--	--	18	2	18	1	141	1
		Questioning or unsure									--	--	13	1	15	1	124	1
		I prefer not to respond									--	--	72	7	81	5	462	5
		Total									--	--	1,046	100	1,499	100	9,438	100

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

California State University-Chico

Bio, Agric, & Nat Res

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a				Seniors ^a											
			CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016		CSU, Chico		Far West Public		Carnegie Class		NSSE 2015 & 2016	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
Institution-reported information																		
(Variables provided by your institution in your NSSE population file.)																		
Institution-reported sex	IRsex	Female									38	56	1,007	66	2,953	67	12,803	65
		Male									30	44	520	34	1,436	33	6,760	35
		Total									68	100	1,527	100	4,389	100	19,563	100
Institution-reported race or ethnicity	IRrace	American Indian or Alaska Native									1	1	13	1	29	1	116	1
		Asian									7	10	213	16	260	7	1,363	8
		Black or African American									1	1	32	2	209	5	1,019	6
		Hispanic or Latino									7	10	204	15	412	10	1,789	10
		Native Hawaiian/Other Pac. Islander									0	0	48	4	8	0	78	0
		White									36	53	628	47	2,675	68	11,974	67
		Other									0	0	0	0	2	0	3	0
		Foreign or nonresident alien									0	0	23	2	73	2	383	2
		Two or more races/ethnicities									5	7	109	8	122	3	617	3
		Total									11	16	66	5	157	4	635	4
										68	100	1,336	100	3,947	100	17,977	100	
Institution-reported class level	IRclass	Freshman/First-Year									0	0	0	0	0	0	0	0
		Sophomore									0	0	0	0	0	0	0	0
		Junior									0	0	0	0	0	0	0	0
		Senior									68	100	1,527	100	4,389	100	19,563	100
		Other									0	0	0	0	0	0	0	0
		Total									68	100	1,527	100	4,389	100	19,563	100
Institution-reported first-time first-year (FTFY) status	IRftfy	No									68	100	1,483	97	4,309	98	19,359	99
		Yes									0	0	44	3	80	2	204	1
		Total									68	100	1,527	100	4,389	100	19,563	100
Institution-reported enrollment status	IRenrollment	Not full-time									7	10	252	17	495	11	1,958	10
		Full-time									61	90	1,275	83	3,894	89	17,605	90
		Total									68	100	1,527	100	4,389	100	19,563	100

Endnotes

- a. All results are unweighted.
- b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.
- c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI is the range of values that is 95% likely to contain the true population mean, equal to the sample mean $\pm 1.96 * SEM$.
- d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.
- e. Degrees of freedom used to compute the t -tests. Values differ from Ns due to whether equal variances were assumed.
- f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance: $*p < .05$, $**p < .01$, $***p < .001$ (2-tailed).
- g. Cohen's d : The mean difference divided by the pooled standard deviation. Effect size indicates the practical importance of an observed difference. For EI comparisons, NSSE research has concluded that an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview.
- h. Percentage of students who responded "Done or in progress" except for service-learning which is the percentage who responded that at least "Some" courses included a community-based project.
- i. $*p < .05$, $**p < .01$, $***p < .001$ (z -test comparing participation rates).
- j. Cohen's h : The standardized difference between two proportions. Effect size indicates the practical importance of an observed difference. NSSE research has found that interpretations vary by HIP: For service-learning, internships, study abroad, and culminating senior experiences, an effect size of about .2 may be considered small, .5 medium, and .8 large. For learning community and research with faculty, an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015).
- k. Means calculated from ordered response options (e.g., Very Often, Often, Sometimes, Never) assume equal intervals and should be interpreted with caution. Unless otherwise noted, statistical comparisons are two-tailed independent t -tests. Exceptions are the dichotomous high-impact practice items (11a to 11f) which are compared using a z -test.
- l. Items that make up the Engagement Indicators include the following two-letter prefixes: CL = Collaborative Learning, DD = Discussions with Diverse Others, ET = Effective Teaching Practices, HO = Higher-Order Learning, LS = Learning Strategies, QI = Quality of Interactions, QR = Quantitative Reasoning, RI = Reflective and Integrative Learning, SE = Supportive Environment, and SF = Student-Faculty Interaction.
- m. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook. For items estimating number of papers and hours per week, the values represent actual units using the midpoints of response option ranges and an estimate for unbounded options.
- n. Effect size for independent t -tests uses Cohen's d ; z -tests use Cohen's h .
- o. Statistical comparison uses z -test to compare the percentage who responded "Done or in progress."

Key to symbols:

- ▲ Your students' average was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.
- △ Your students' average was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.
- ▽ Your students' average was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.
- ▼ Your students' average was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.

Note: It is important to interpret the direction of differences relative to item wording and your institutional context.

Reference: Rocconi, L., & Gonyea, R. M. (2015). Contextualizing student engagement effect sizes: An empirical analysis. Paper presented at the Association for Institutional Research Annual Forum, Denver, CO.