
California State University-Chico

NSSE 2016 Major Field Report, Part II

Comparisons to Other Institutions

Phys Sci, Math, CS

*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 'Phys Sci, Math, CS' includes the following majors: Physical sciences (general); Astronomy; Atmospheric science (including meteorology); Chemistry; Computer science; Earth science (including geology); Mathematics; Physics; Statistics; Other physical 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: Phys Sci, Math, CS.

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 Phys Sci, Math, CS

Seniors in Phys Sci, Math, CS

Theme	Engagement Indicator	First-Year Students in Phys Sci, Math, CS			Seniors in Phys Sci, Math, CS		
		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: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

	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 = 23)	38.5	14.3	2.99	20	30	35	45	60				
Far West Public	38.9	14.7	.55	15	30	40	50	60	747	-.4		-.027
Carnegie Class	39.7	13.9	.27	15	30	40	50	60	2,659	-1.3		-.091
NSSE 2015 & 2016	39.1	13.9	.14	15	30	40	50	60	10,423	-.7		-.047
Reflective & Integrative Learning												
CSU, Chico (N = 23)	31.4	11.6	2.42	14	20	31	40	51				
Far West Public	33.9	12.5	.46	14	26	34	43	57	755	-2.4		-.195
Carnegie Class	34.1	12.6	.24	14	26	34	43	57	2,687	-2.7		-.215
NSSE 2015 & 2016	33.8	12.6	.12	14	26	34	43	57	10,599	-2.4		-.188
Learning Strategies												
CSU, Chico (N = 23)	40.9	14.5	3.03	20	27	40	60	60				
Far West Public	37.5	15.2	.57	13	27	40	47	60	739	3.4		.221
Carnegie Class	37.8	14.9	.29	13	27	40	47	60	2,658	3.1		.206
NSSE 2015 & 2016	36.8	15.0	.15	13	27	40	47	60	10,467	4.1		.271
Quantitative Reasoning												
CSU, Chico (N = 22)	37.0	18.6	3.97	7	20	37	53	60				
Far West Public	34.2	17.0	.63	7	20	33	47	60	751	2.8		.166
Carnegie Class	35.5	17.0	.33	7	20	33	47	60	2,690	1.4		.084
NSSE 2015 & 2016	35.0	16.9	.16	7	20	33	47	60	10,587	2.0		.119
Learning with Peers												
Collaborative Learning												
CSU, Chico (N = 23)	39.3	11.5	2.40	25	30	40	45	60				
Far West Public	35.3	15.1	.56	10	25	35	45	60	744	4.0		.267
Carnegie Class	34.4	14.8	.29	10	25	35	45	60	2,652	4.9		.335
NSSE 2015 & 2016	34.7	14.6	.14	10	25	35	45	60	10,492	4.6		.315
Discussions with Diverse Others												
CSU, Chico (N = 22)	33.6	20.1	4.28	0	20	30	50	60				
Far West Public	41.2	16.6	.62	10	30	40	60	60	747	-7.6	*	-.453
Carnegie Class	39.7	16.4	.32	10	30	40	55	60	2,675	-6.1		-.370
NSSE 2015 & 2016	40.0	16.1	.16	10	30	40	55	60	21	-6.3		-.392

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

Engagement Indicators: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

	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 = 23)	28.0	17.3	3.61	0	15	25	40	60				
Far West Public	23.7	17.1	.63	0	10	20	35	60	748	4.3		.253
Carnegie Class	26.6	17.0	.33	0	15	25	40	60	2,659	1.4		.084
NSSE 2015 & 2016	25.5	16.6	.16	0	15	25	35	60	10,481	2.5		.152
Effective Teaching Practices												
CSU, Chico (N = 23)	39.5	12.8	2.67	20	32	36	52	60				
Far West Public	38.5	14.3	.53	16	28	40	52	60	755	1.0		.072
Carnegie Class	40.2	13.7	.26	16	32	40	52	60	2,702	-.7		-.049
NSSE 2015 & 2016	39.2	13.6	.13	16	32	40	48	60	10,632	.3		.019
Campus Environment												
Quality of Interactions												
CSU, Chico (N = 21)	38.4	9.7	2.11	26	30	40	46	52				
Far West Public	40.8	12.2	.46	18	34	42	50	60	708	-2.4		-.198
Carnegie Class	43.3	11.3	.22	22	36	44	52	60	2,557	-4.8	*	-.430
NSSE 2015 & 2016	42.4	11.4	.11	22	36	44	50	60	10,182	-4.0		-.347
Supportive Environment												
CSU, Chico (N = 23)	26.3	15.4	3.20	5	15	28	38	55				
Far West Public	31.1	14.8	.55	5	20	30	40	60	750	-4.8		-.326
Carnegie Class	32.2	14.0	.27	8	23	33	40	60	2,679	-5.9	*	-.425
NSSE 2015 & 2016	32.6	13.9	.14	10	23	33	40	58	10,544	-6.3	*	-.451

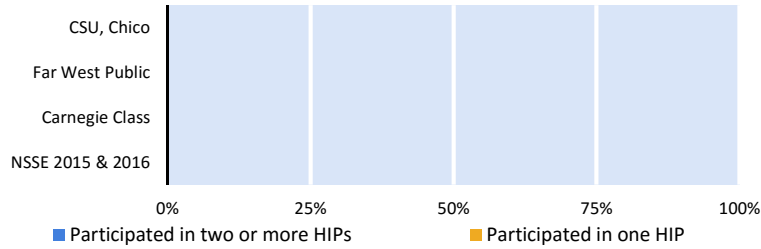
NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

High-Impact Practices: Phys Sci, Math, CS California State University-Chico

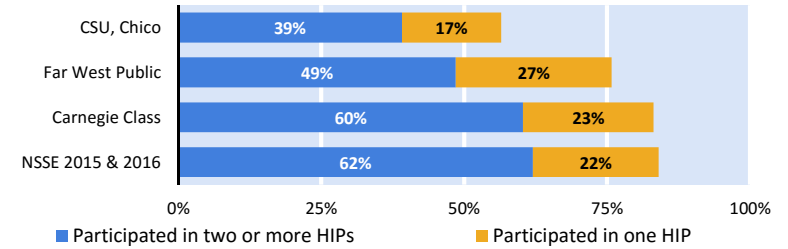
Overall HIP Participation^a

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 Phys Sci, Math, CS



Seniors in Phys Sci, Math, CS



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 Phys Sci, Math, CS</i>								
11c. Learning community								
12. Service-learning								
11e. Research with faculty								
Participated in at least one								
Participated in two or more								
<i>Seniors in Phys Sci, Math, CS</i>								
11c. Learning community	22		20	.05	22	-.01	22	-.01
12. Service-learning	27		39	-.25	47	-.41	44	-.34
11e. Research with faculty	13		36 *	-.54	41 **	-.64	42 **	-.66
11a. Internship or field exp.	39		40	-.01	44	-.11	50	-.21
11d. Study abroad	4		7	-.12	11	-.26	13	-.33
11f. Culminating senior exp.	35		36	-.03	48	-.26	48	-.26
Participated in at least one	57		76 *	-.41	83 ***	-.59	84 ***	-.62
Participated in two or more	39		49	-.19	60 *	-.43	62 *	-.46

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k													
				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							
				%	%	%	%	%	%																
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 2 3 4	Never Sometimes Often Very often	1 4 9 9	4 17 39 39	30 251 201 255	4 34 27 35	72 670 850 1,095	3 25 32 41	356 3,028 3,298 3,953	3 28 31 37	3.1	2.9	.22	3.1	.03	3.0	.12							
Total				23	100	737	100	2,687	100	10,635	100														
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1 2 3 4	Never Sometimes Often Very often	5 10 5 3	22 43 22 13	179 259 181 113	24 35 25 15	724 916 656 376	27 34 25 14	2,952 3,833 2,380 1,431	28 36 22 14								2.3	2.3	-.05	2.3	.00	2.2	.04
Total				23	100	732	100	2,672	100	10,596	100														
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1 2 3 4	Very often Often Sometimes Never	3 3 12 5	13 13 52 22	65 103 408 153	9 14 56 21	158 381 1,476 655	6 14 55 25	707 1,601 6,014 2,264	7 15 57 21														
Total				23	100	729	100	2,670	100	10,586	100														
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendart	1 2 3 4	Never Sometimes Often Very often	9 11 1 2	39 48 4 9	370 263 68 31	51 36 9 4	1,250 984 295 142	47 37 11 5	4,467 4,140 1,363 612	42 39 13 6	1.8	1.7	.19	1.7	.09	1.8	.00							
Total				23	100	732	100	2,671	100	10,582	100														
e. Asked another student to help you understand course material	CLaskhelp	1 2 3 4	Never Sometimes Often Very often	1 8 7 7	4 35 30 30	66 284 229 152	9 39 31 21	325 1,110 768 466	12 42 29 17	1,141 4,279 3,181 1,999	11 40 30 19								2.9	2.6	.25	2.5	.39	2.6	.33
Total				23	100	731	100	2,669	100	10,600	100														
f. Explained course material to one or more students	CLexplain	1 2 3 4	Never Sometimes Often Very often	0 7 6 10	0 30 26 43	21 229 262 222	3 31 36 30	90 756 989 840	3 28 37 31	331 2,968 4,002 3,294	3 28 38 31														
Total				23	100	734	100	2,675	100	10,595	100														

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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			
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	0	0	107	15	466	17	1,700	16	2.9	2.6	.28	2.6	.33	2.6	.33
		2	Sometimes	9	39	253	35	841	31	3,533	33							
		3	Often	7	30	178	24	744	28	2,935	28							
		4	Very often	7	30	195	27	625	23	2,442	23							
		Total		23	100	733	100	2,676	100	10,610	100							
h. Worked with other students on course projects or assignments	CLproject	1	Never	1	4	45	6	192	7	673	6	3.0	2.9	.09	2.8	.14	2.8	.14
		2	Sometimes	6	26	225	31	797	30	3,295	31							
		3	Often	9	39	242	33	962	36	3,761	35							
		4	Very often	7	30	221	30	717	27	2,873	27							
		Total		23	100	733	100	2,668	100	10,602	100							
i. Given a course presentation	present	1	Never	2	9	118	16	391	15	1,569	15	2.7	2.4	.25	2.5	.16	2.4	.22
		2	Sometimes	10	43	310	42	1,020	38	4,378	41							
		3	Often	5	22	190	26	799	30	2,993	28							
		4	Very often	6	26	117	16	459	17	1,649	16							
		Total		23	100	735	100	2,669	100	10,589	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	1	4	37	5	110	4	423	4	3.0	2.9	.06	2.9	.04	2.9	.07
		2	Sometimes	7	30	211	29	729	27	3,108	29							
		3	Often	7	30	271	37	1,085	41	4,211	40							
		4	Very often	8	35	216	29	747	28	2,855	27							
		Total		23	100	735	100	2,671	100	10,597	100							
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	5	22	110	15	402	15	1,621	15	2.3	2.4	-.08	2.4	-.09	2.4	-.07
		2	Sometimes	8	35	311	43	1,084	41	4,485	42							
		3	Often	7	30	201	27	787	30	2,950	28							
		4	Very often	3	13	109	15	385	14	1,505	14							
		Total		23	100	731	100	2,658	100	10,561	100							
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	9	39	190	26	668	25	2,727	26	1.8	2.1	-.33	2.2	-.39	2.2	-.37
		2	Sometimes	10	43	325	45	1,108	42	4,435	42							
		3	Often	3	13	146	20	600	23	2,288	22							
		4	Very often	1	4	68	9	284	11	1,102	10							
		Total		23	100	729	100	2,660	100	10,552	100							

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Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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	
														Effect size ⁿ	Effect size ⁿ		Effect size ⁿ	Effect size ⁿ
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	6	26	53	7	227	9	902	9	2.2	2.7 *	-0.54	-0.52	2.7 *	-0.51	
		2	Sometimes	8	35	265	36	921	35	3,687	35							
		3	Often	7	30	269	37	998	38	4,006	38							
		4	Very often	2	9	145	20	515	19	1,965	19							
		Total		23	100	732	100	2,661	100	10,560	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	22	49	7	174	7	750	7	2.4	2.8	-0.39	-0.40	2.8	-0.37	
		2	Sometimes	6	26	235	32	834	31	3,374	32							
		3	Often	9	39	267	37	1,045	39	4,051	38							
		4	Very often	3	13	178	24	604	23	2,366	22							
		Total		23	100	729	100	2,657	100	10,541	100							
f. Learned something that changed the way you understand an issue or concept	RInewview	1	Never	2	9	28	4	106	4	446	4	2.9	2.8	.11	.10	2.8	.10	
		2	Sometimes	5	22	249	34	845	32	3,349	32							
		3	Often	9	39	278	38	1,103	42	4,336	41							
		4	Very often	7	30	176	24	602	23	2,415	23							
		Total		23	100	731	100	2,656	100	10,546	100							
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	0	0	12	2	56	2	222	2	3.3	3.1	.29	.26	3.1	.27	
		2	Sometimes	3	14	177	24	524	20	2,132	20							
		3	Often	9	41	279	38	1,141	43	4,522	43							
		4	Very often	10	45	262	36	936	35	3,651	35							
		Total		22	100	730	100	2,657	100	10,527	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	3	13	152	21	430	16	1,922	18	2.6	2.3	.24	.07	2.4	.13	
		2	Sometimes	10	43	302	41	1,030	39	4,081	39							
		3	Often	4	17	165	23	668	25	2,575	24							
		4	Very often	6	26	114	16	544	20	1,986	19							
		Total		23	100	733	100	2,672	100	10,564	100							
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	10	43	337	46	1,009	38	4,052	38	1.9	2.0	-0.05	-0.18	2.1	-0.16	
		2	Sometimes	8	35	187	26	770	29	3,064	29							
		3	Often	2	9	101	14	470	18	1,865	18							
		4	Very often	3	13	106	15	414	16	1,563	15							
		Total		23	100	731	100	2,663	100	10,544	100							

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Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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	
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	4	17	170	23	513	19	2,070	20	2.8	2.3 *	.52	.36	2.4	.41		
		2	Sometimes	4	17	306	42	999	38	4,085	39								
		3	Often	8	35	142	19	652	24	2,669	25								
		4	Very often	7	30	113	15	498	19	1,725	16								
		Total		23	100	731	100	2,662	100	10,549	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	5	22	186	25	575	22	2,571	24	2.3	2.2	.17	.07	2.2	.16		
		2	Sometimes	8	35	316	43	1,129	42	4,573	43								
		3	Often	7	30	139	19	586	22	2,146	20								
		4	Very often	3	13	92	13	372	14	1,244	12								
		Total		23	100	733	100	2,662	100	10,534	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	4	17	52	7	230	9	1,025	10	2.3	2.8 *	-.48	-.37	2.7	-.34		
		2	Some	11	48	233	32	938	35	3,669	35								
		3	Quite a bit	4	17	274	37	959	36	3,811	36								
		4	Very much	4	17	176	24	547	20	2,071	20								
		Total		23	100	735	100	2,674	100	10,576	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	0	0	23	3	71	3	260	2	3.3	3.2	.05	.03	3.2	.04		
		2	Some	5	22	118	16	379	14	1,543	15								
		3	Quite a bit	7	30	270	37	1,065	40	4,285	41								
		4	Very much	11	48	323	44	1,153	43	4,481	42								
		Total		23	100	734	100	2,668	100	10,569	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	1	4	40	5	113	4	473	4	3.2	3.1	.14	.06	3.1	.09		
		2	Some	4	17	156	21	485	18	2,056	20								
		3	Quite a bit	8	35	266	36	1,033	39	4,022	38								
		4	Very much	10	43	273	37	1,029	39	3,989	38								
		Total		23	100	735	100	2,660	100	10,540	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	7	30	85	12	291	11	1,319	13	2.3	2.7 *	-.42	-.45	2.6	-.39		
		2	Some	7	30	250	34	866	32	3,488	33								
		3	Quite a bit	5	22	221	30	904	34	3,510	33								
		4	Very much	4	17	177	24	605	23	2,227	21								
		Total		23	100	733	100	2,666	100	10,544	100								

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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							
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	0	0	54	7	169	6	699	7	3.0	2.8	.17	2.9	.11	2.9	.14
		2	Some	9	39	212	29	664	25	2,825	27							
		3	Quite a bit	5	22	261	36	1,080	40	4,146	39							
		4	Very much	9	39	205	28	755	28	2,870	27							
		Total		23	100	732	100	2,668	100	10,540	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	0	0	20	3	63	2	270	3	3.4	3.1	.37	3.2	.30	3.1	.34
		2	Some	3	13	145	20	460	17	1,881	18							
		3	Quite a bit	8	35	315	43	1,148	43	4,702	44							
		4	Very much	12	52	256	35	1,011	38	3,758	35							
		Total		23	100	736	100	2,682	100	10,611	100							
b. Taught course sessions in an organized way	ETorganize	1	Very little	1	4	24	3	74	3	291	3	3.0	3.0	.02	3.1	-.09	3.1	-.06
		2	Some	3	13	169	23	479	18	1,942	18							
		3	Quite a bit	13	57	306	42	1,196	45	4,868	46							
		4	Very much	6	26	235	32	931	35	3,486	33							
		Total		23	100	734	100	2,680	100	10,587	100							
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	0	0	25	3	92	3	344	3	3.3	3.1	.19	3.2	.11	3.1	.14
		2	Some	3	13	154	21	425	16	1,825	17							
		3	Quite a bit	11	48	276	38	1,082	40	4,346	41							
		4	Very much	9	39	279	38	1,075	40	4,063	38							
		Total		23	100	734	100	2,674	100	10,578	100							
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	4	17	108	15	338	13	1,533	15	2.3	2.6	-.32	2.7	-.41	2.6	-.32
		2	Some	12	52	235	32	785	29	3,330	32							
		3	Quite a bit	3	13	211	29	877	33	3,386	32							
		4	Very much	4	17	178	24	671	25	2,320	22							
		Total		23	100	732	100	2,671	100	10,569	100							
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	3	13	66	9	190	7	790	7	2.9	2.8	.11	2.9	-.02	2.8	.05
		2	Some	5	22	234	32	672	25	2,940	28							
		3	Quite a bit	7	30	241	33	1,055	40	4,124	39							
		4	Very much	8	35	192	26	752	28	2,701	26							
		Total		23	100	733	100	2,669	100	10,555	100							

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k											
				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					
				%	%	%	%	%	%	%	%												
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	2	9	33	4	131	5	563	5	3.2	3.0	.19	3.1	.15	3.1	.18					
		2	Sometimes	4	17	183	25	585	22	2,360	22												
		3	Often	4	17	239	33	894	33	3,599	34												
		4	Very often	13	57	280	38	1,069	40	4,088	39												
			Total	23	100	735	100	2,679	100	10,610	100												
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	3	14	163	22	487	18	2,017	19	2.9	2.5	.41	2.6	.30	2.5	.35					
		2	Sometimes	6	27	239	32	809	30	3,356	32												
		3	Often	3	14	163	22	707	26	2,732	26												
		4	Very often	10	45	171	23	678	25	2,499	24												
			Total	22	100	736	100	2,681	100	10,604	100												
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	3	13	98	13	354	13	1,376	13	2.5	2.6	-.10	2.7	-.14	2.6	-.13					
		2	Sometimes	11	48	256	35	877	33	3,513	33												
		3	Often	3	13	207	28	773	29	3,176	30												
		4	Very often	6	26	173	24	672	25	2,533	24												
			Total	23	100	734	100	2,676	100	10,598	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	7	32	81	11	302	12	1,210	12	4.4	5.9	-.24	6.2	-.29	6.2	-.28					
		1.5	1-2	3	14	189	27	616	24	2,515	24												
	(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	7	32	192	27	722	28	2,859	28												
		8	6-10	2	9	126	18	458	18	1,825	18												
		13	11-15	2	9	54	8	232	9	867	8												
		18	16-20	0	0	24	3	102	4	420	4												
		23	More than 20	1	5	43	6	169	6	658	6												
			Total	22	100	709	100	2,601	100	10,354	100												
b. Between 6 and 10 pages	wrmednum	0	None	9	39	236	33	841	33	3,409	33	2.2	2.9	-.15	2.8	-.14	2.7	-.11					
		1.5	1-2	11	48	246	35	906	35	3,603	35												
	(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	1	4	118	17	467	18	1,892	19												
		8	6-10	1	4	69	10	231	9	814	8												
		13	11-15	0	0	19	3	72	3	257	3												
		18	16-20	0	0	3	0	27	1	92	1												
		23	More than 20	1	4	16	2	28	1	125	1												
			Total	23	100	707	100	2,572	100	10,192	100												

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k											
				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					
				%	%	%	%	%	%	%	%												
9. During the current school year, about how often have you done the following?																							
a. Identified key information from reading assignments	LSreading	1	Never	1	4	18	2	108	4	463	4	3.1	3.1	.01	3.1	.02	3.0	.05					
		2	Sometimes	6	26	174	24	534	20	2,261	21												
		3	Often	6	26	271	37	1,093	41	4,249	40												
		4	Very often	10	43	268	37	935	35	3,616	34												
		Total		23	100	731	100	2,670	100	10,589	100												
b. Reviewed your notes after class	LSnotes	1	Never	2	9	57	8	213	8	981	9	3.1	2.8	.27	2.9	.25	2.8	.33					
		2	Sometimes	4	17	231	32	797	30	3,429	32												
		3	Often	7	30	221	30	825	31	3,233	31												
		4	Very often	10	43	222	30	827	31	2,927	28												
		Total		23	100	731	100	2,662	100	10,570	100												
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	1	4	73	10	262	10	1,065	10	3.0	2.7	.25	2.7	.22	2.7	.26					
		2	Sometimes	7	30	251	35	834	31	3,434	33												
		3	Often	7	30	208	29	865	33	3,456	33												
		4	Very often	8	35	192	27	691	26	2,555	24												
		Total		23	100	724	100	2,652	100	10,510	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	0	0	7	1	25	1	111	1	6.0	5.6	.25	5.6	.28	5.5	.33					
		2		0	0	13	2	55	2	188	2												
		3		1	4	26	4	100	4	413	4												
		4		1	4	73	10	221	8	975	9												
		5		4	17	186	25	712	27	2,990	28												
		6		9	39	198	27	828	31	3,248	31												
		7	Very much	8	35	228	31	733	27	2,657	25												
		Total		23	100	731	100	2,674	100	10,582	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		1	4	83	11	240	9	822	8	39%	40%	-.01	44%	-.11	50%	-.21					
		Do not plan to do		1	4	113	15	543	20	1,925	18												
		Plan to do		12	52	248	34	706	26	2,583	24												
		Done or in progress		9	39	291	40	1,186	44	5,274	50												
		Total		23	100	735	100	2,675	100	10,604	100												

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

			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	
Item wording or description	Variable name ^l	Values ^m	Response options									Your seniors compared with						
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	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	2	9	87	12	237	9	842	8	39%	30%	.19	39%	.00	42%	-.05
			Do not plan to do	10	43	376	51	1,237	46	4,685	44							
			Plan to do	2	9	51	7	157	6	634	6							
			Done or in progress	9	39	221	30	1,040	39	4,422	42							
			Total	23	100	735	100	2,671	100	10,583	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	5	22	107	15	306	11	1,112	11	22%	20%	.05	22%	-.01	22%	-.01
			Do not plan to do	11	48	429	59	1,569	59	6,388	60							
			Plan to do	2	9	52	7	201	8	720	7							
			Done or in progress	5	22	145	20	591	22	2,358	22							
			Total	23	100	733	100	2,667	100	10,578	100							
d. Participate in a study abroad program	abroad	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	4	17	98	13	242	9	967	9	4%	7%	-.12	11%	-.26	13%	-.33
			Do not plan to do	17	74	525	72	1,984	74	7,566	72							
			Plan to do	1	4	56	8	146	5	607	6							
			Done or in progress	1	4	53	7	295	11	1,425	13							
			Total	23	100	732	100	2,667	100	10,565	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	2	9	132	18	356	13	1,263	12	13%	36% *	-0.54	41% **	-0.64	42% **	-0.66
			Do not plan to do	9	39	223	31	857	32	3,447	33							
			Plan to do	9	39	115	16	370	14	1,436	14							
			Done or in progress	3	13	260	36	1,079	41	4,393	42							
			Total	23	100	730	100	2,662	100	10,539	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	2	9	103	14	251	9	935	9	35%	36%	-.03	48%	-.26	48%	-.26
			Do not plan to do	1	4	193	26	518	19	2,250	21							
			Plan to do	12	52	173	24	626	23	2,365	22							
			Done or in progress	8	35	264	36	1,271	48	5,025	48							
			Total	23	100	733	100	2,666	100	10,575	100							
12. About how many of your courses at this institution have included a community-based project (service-learning)?																		
	servcourse		1 None	16	73	443	61	1,417	53	5,969	56	1.3	1.4	-.21	1.5	-.33	1.5	-.27
			2 Some	5	23	255	35	1,127	42	4,167	39							
			3 Most	1	5	22	3	100	4	351	3							
			4 All	0	0	8	1	22	1	79	1							
			Total	22	100	728	100	2,666	100	10,566	100							

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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
13. Indicate the quality of your interactions with the following people at your institution.																			
a. Students	QIstudent	1	Poor	0	0	11	1	37	1	139	1	5.0	5.5	-38	5.6 *	-46	5.6 *	-43	
		2		0	0	10	1	41	2	183	2								
		3		4	17	39	5	117	4	476	4								
		4		4	17	84	11	258	10	1,056	10								
		5		7	30	179	24	602	22	2,589	24								
		6		4	17	204	28	800	30	3,086	29								
		7	Excellent	4	17	206	28	800	30	3,031	29								
		—	Not applicable	0	0	2	0	27	1	58	1								
		Total		23	100	735	100	2,682	100	10,618	100								
b. Academic advisors	QIadvisor	1	Poor	1	4	40	5	121	5	482	5	4.7	5.1	-26	5.4 *	-43	5.3 *	-37	
		2		0	0	42	6	101	4	475	4								
		3		2	9	49	7	176	7	748	7								
		4		7	30	96	13	280	10	1,184	11								
		5		8	35	141	19	437	16	1,869	18								
		6		3	13	148	20	576	22	2,268	21								
		7	Excellent	2	9	204	28	933	35	3,410	32								
		—	Not applicable	0	0	16	2	52	2	168	2								
		Total		23	100	736	100	2,676	100	10,604	100								
c. Faculty	QIfaculty	1	Poor	0	0	15	2	39	1	179	2	5.5	5.4	.10	5.7	-11	5.6	-02	
		2		0	0	27	4	51	2	227	2								
		3		1	4	36	5	98	4	470	4								
		4		6	26	102	14	240	9	1,115	11								
		5		3	13	156	21	566	21	2,267	21								
		6		6	26	198	27	820	31	3,224	31								
		7	Excellent	7	30	194	26	842	31	3,027	29								
		—	Not applicable	0	0	5	1	20	1	54	1								
		Total		23	100	733	100	2,676	100	10,563	100								

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

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				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. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	1	4	46	6	128	5	541	5	4.1	4.6	-0.32	4.9 *	-0.50	4.8	-0.46	
		2		1	4	34	5	120	4	485	5								
		3		4	17	45	6	171	6	736	7								
		4		3	13	103	14	338	13	1,518	14								
		5		5	22	118	16	460	17	2,040	19								
		6		1	4	100	14	476	18	1,893	18								
		7	Excellent	1	4	93	13	459	17	1,680	16								
		—	Not applicable	7	30	193	26	515	19	1,685	16								
Total				23	100	732	100	2,667	100	10,578	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	2	9	53	7	138	5	599	6	4.4	4.7	-0.18	4.9	-0.34	4.8	-0.28	
		2		1	4	41	6	123	5	541	5								
		3		3	13	67	9	223	8	919	9								
		4		2	9	131	18	402	15	1,681	16								
		5		7	30	146	20	557	21	2,325	22								
		6		4	17	131	18	577	22	2,175	21								
		7	Excellent	1	4	118	16	506	19	1,794	17								
		—	Not applicable	3	13	47	6	147	5	562	5								
Total				23	100	734	100	2,673	100	10,596	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	0	0	17	2	78	3	258	2	3.2	3.2	-0.02	3.1	.04	3.2	-0.01	
		2	Some	5	22	119	16	442	17	1,626	15								
		3	Quite a bit	9	39	307	42	1,169	44	4,587	43								
		4	Very much	9	39	291	40	977	37	4,093	39								
		Total				23	100	734	100	2,666	100								10,564
b. Providing support to help students succeed academically	SEacademic	1	Very little	2	9	52	7	130	5	534	5	2.8	2.9	-0.05	3.0	-0.18	3.0	-0.16	
		2	Some	6	26	193	26	589	22	2,434	23								
		3	Quite a bit	9	39	278	38	1,132	43	4,433	42								
		4	Very much	6	26	206	28	798	30	3,114	30								
		Total				23	100	729	100	2,649	100								10,515
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	5	22	75	10	226	9	769	7	2.5	2.8	-0.31	2.9	-0.40	2.9 *	-0.43	
		2	Some	5	22	193	26	620	23	2,533	24								
		3	Quite a bit	9	39	252	34	1,039	39	4,061	39								
		4	Very much	4	17	211	29	771	29	3,160	30								
		Total				23	100	731	100	2,656	100								10,523

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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		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	6	26	150	21	491	18	1,987	19	2.3	2.5	-0.20	2.5	-0.19	2.5	-0.17
		2	Some	8	35	219	30	878	33	3,529	33							
		3	Quite a bit	5	22	198	27	788	30	2,994	28							
		4	Very much	4	17	162	22	503	19	2,027	19							
		Total		23	100	729	100	2,660	100	10,537	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	3	13	78	11	229	9	875	8	2.6	2.7	-0.15	2.8	-0.22	2.8	-0.23
		2	Some	7	30	209	29	718	27	2,864	27							
		3	Quite a bit	9	39	266	36	1,045	39	4,088	39							
		4	Very much	4	17	179	24	671	25	2,717	26							
		Total		23	100	732	100	2,663	100	10,544	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	5	22	87	12	318	12	1,097	10	2.3	2.8 *	-0.48	2.7 *	-0.44	2.8 *	-0.50
		2	Some	9	39	180	25	709	27	2,831	27							
		3	Quite a bit	6	26	280	38	1,026	39	4,019	38							
		4	Very much	3	13	184	25	603	23	2,585	25							
		Total		23	100	731	100	2,656	100	10,532	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	12	52	288	40	885	33	3,533	34	1.8	2.0	-0.17	2.1	-0.29	2.0	-0.28
		2	Some	6	26	259	36	993	37	3,964	38							
		3	Quite a bit	3	13	104	14	522	20	2,013	19							
		4	Very much	2	9	75	10	254	10	1,009	10							
		Total		23	100	726	100	2,654	100	10,519	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	8	35	130	18	377	14	1,308	12	2.2	2.5	-0.35	2.6 *	-0.45	2.7 *	-0.53
		2	Some	7	30	224	31	810	31	3,097	29							
		3	Quite a bit	4	17	232	32	947	36	3,810	36							
		4	Very much	4	17	139	19	516	19	2,289	22							
		Total		23	100	725	100	2,650	100	10,504	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	11	48	173	24	552	21	2,067	20	2.0	2.3	-0.27	2.4	-0.37	2.4	-0.39
		2	Some	4	17	281	39	964	36	3,971	38							
		3	Quite a bit	5	22	176	24	779	29	2,997	29							
		4	Very much	3	13	95	13	352	13	1,456	14							
		Total		23	100	725	100	2,647	100	10,491	100							

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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	
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)	tmprephrs	0	0 hrs	0	0	2	0	13	0	46	0	20.8	17.8	.31	16.7 *	.44	17.1	.40	
	(Recoded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	4	67	9	281	11	1,027	10								
		8	6-10 hrs	3	13	138	19	532	20	1,990	19								
		13	11-15 hrs	1	4	115	16	475	18	1,950	18								
		18	16-20 hrs	7	30	128	17	489	18	1,992	19								
		23	21-25 hrs	3	13	104	14	345	13	1,311	12								
		28	26-30 hrs	4	17	64	9	204	8	853	8								
		33	More than 30 hrs	4	17	114	16	329	12	1,406	13								
			Total	23	100	732	100	2,668	100	10,575	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	10	43	398	55	1,112	42	4,169	40	2.8	3.3	-.09	4.6 *	-.27	4.9 *	-.31	
	(Recoded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	10	43	184	25	855	32	3,293	31								
		8	6-10 hrs	2	9	75	10	314	12	1,440	14								
		13	11-15 hrs	0	0	36	5	151	6	713	7								
		18	16-20 hrs	1	4	15	2	99	4	450	4								
		23	21-25 hrs	0	0	10	1	62	2	218	2								
		28	26-30 hrs	0	0	3	0	18	1	97	1								
		33	More than 30 hrs	0	0	5	1	47	2	139	1								
			Total	23	100	726	100	2,658	100	10,519	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	18	78	438	60	1,583	59	5,768	55	2.8	5.4	-.34	4.9	-.28	5.4	-.34	
	(Recoded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	4	30	4	208	8	922	9								
		8	6-10 hrs	0	0	70	10	312	12	1,445	14								
		13	11-15 hrs	2	9	73	10	250	9	1,017	10								
		18	16-20 hrs	2	9	98	13	186	7	930	9								
		23	21-25 hrs	0	0	12	2	56	2	246	2								
		28	26-30 hrs	0	0	3	0	22	1	92	1								
		33	More than 30 hrs	0	0	8	1	46	2	144	1								
			Total	23	100	732	100	2,663	100	10,564	100								

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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. Working for pay off campus	tmworkoffhrs	0	0 hrs	11	48	380	52	1,320	50	6,049	58	7.4	8.4	-.08	9.9	-.20	7.9	-.04
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	3	13	44	6	135	5	545	5							
	8	6-10 hrs	2	9	55	8	189	7	646	6								
	13	11-15 hrs	2	9	44	6	165	6	592	6								
	18	16-20 hrs	3	13	75	10	248	9	807	8								
	23	21-25 hrs	0	0	49	7	145	5	558	5								
	28	26-30 hrs	0	0	21	3	104	4	339	3								
	33	More than 30 hrs	2	9	56	8	348	13	971	9								
	Total		23	100	724	100	2,654	100	10,507	100								
Estimated number of hours working for pay	tmworkhrs											10.3	13.6	-.28	14.7	-.35	13.3	-.25
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	17	74	475	65	1,669	63	6,440	62	2.1	2.3	-.04	2.1	-.01	2.1	.00
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	3	13	162	22	703	27	2,997	29							
	8	6-10 hrs	1	4	48	7	153	6	554	5								
	13	11-15 hrs	1	4	18	2	46	2	213	2								
	18	16-20 hrs	1	4	14	2	40	2	142	1								
	23	21-25 hrs	0	0	8	1	15	1	61	1								
	28	26-30 hrs	0	0	2	0	7	0	22	0								
	33	More than 30 hrs	0	0	2	0	12	0	38	0								
	Total		23	100	729	100	2,645	100	10,467	100								
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	1	5	19	3	72	3	273	3	9.5	11.5	-.24	11.7	-.26	11.9	-.29
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	23	185	25	640	24	2,377	23							
	8	6-10 hrs	8	36	199	27	723	27	2,913	28								
	13	11-15 hrs	4	18	146	20	535	20	2,058	20								
	18	16-20 hrs	3	14	79	11	292	11	1,306	12								
	23	21-25 hrs	1	5	36	5	151	6	589	6								
	28	26-30 hrs	0	0	22	3	77	3	307	3								
	33	More than 30 hrs	0	0	45	6	164	6	690	7								
	Total		22	100	731	100	2,654	100	10,513	100								

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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				
												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				
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	17	77	494	68	1,847	70	7,845	75	3.4	4.2	-.09	4.3	-.10	3.6	-.02				
		3	1-5 hrs	1	5	89	12	280	11	967	9											
		8	6-10 hrs	1	5	37	5	134	5	416	4											
		13	11-15 hrs	1	5	31	4	90	3	284	3											
		18	16-20 hrs	1	5	19	3	70	3	247	2											
		23	21-25 hrs	0	0	9	1	35	1	118	1											
		28	26-30 hrs	0	0	9	1	26	1	81	1											
		33	More than 30 hrs	1	5	40	5	167	6	545	5											
			Total	22	100	728	100	2,649	100	10,503	100											
	h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	1	4	35	5	503	19	2,077								20	4.8	5.8	-.20
		3	1-5 hrs	17	74	405	55	1,427	54	5,769	55											
		8	6-10 hrs	2	9	208	28	491	18	1,848	17											
		13	11-15 hrs	2	9	57	8	150	6	534	5											
		18	16-20 hrs	1	4	16	2	49	2	173	2											
		23	21-25 hrs	0	0	4	1	14	1	59	1											
		28	26-30 hrs	0	0	2	0	7	0	28	0											
		33	More than 30 hrs	0	0	6	1	23	1	78	1											
		Total	23	100	733	100	2,664	100	10,566	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	3	13	169	23	609	23	2,574	24	2.7	2.4	.24	2.4	.27	2.3	.30				
		2	Some	8	35	273	37	999	37	3,940	37											
		3	About half	6	26	163	22	647	24	2,461	23											
		4	Most	6	26	95	13	310	12	1,217	12											
		5	Almost all	0	0	32	4	100	4	375	4											
			Total	23	100	732	100	2,665	100	10,567	100											
	tmreadinghrs															8.7	6.6	.33	6.2 *	.43	6.2 *	.44
		(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)																				

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

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		Your seniors compared with			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
	tmreadinghrscol	1	0 hrs	0	0	2	0	12	0	41	0						
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	7	32	389	53	1,467	55	5,809	55						
		3	More than 5, up to 10 hrs	6	27	186	26	709	27	2,852	27						
		4	More than 10, up to 15 hrs	8	36	64	9	214	8	831	8						
		5	More than 15, up to 20 hrs	0	0	51	7	137	5	563	5						
		6	More than 20, up to 25 hrs	1	5	29	4	80	3	316	3						
		7	More than 25 hrs	0	0	8	1	33	1	104	1						
			Total	22	100	729	100	2,652	100	10,516	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	5	22	81	11	280	10	1,089	10	2.4	2.7	-.27	2.8	-.34	2.7	-.33
		2	Some	7	30	238	32	763	29	3,111	29							
		3	Quite a bit	7	30	244	33	948	36	3,784	36							
		4	Very much	4	17	173	24	678	25	2,615	25							
			Total	23	100	736	100	2,669	100	10,599	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	4	17	104	14	298	11	1,313	12	2.6	2.6	-.01	2.7	-.13	2.7	-.09
		2	Some	6	26	237	32	764	29	3,110	29							
		3	Quite a bit	8	35	230	31	948	36	3,655	35							
		4	Very much	5	22	164	22	657	25	2,493	24							
			Total	23	100	735	100	2,667	100	10,571	100							
c. Thinking critically and analytically	pgthink	1	Very little	0	0	28	4	84	3	336	3	3.5	3.2	.33	3.3	.20	3.3	.21
		2	Some	4	17	124	17	333	12	1,350	13							
		3	Quite a bit	4	17	257	35	907	34	3,575	34							
		4	Very much	15	65	325	44	1,344	50	5,319	50							
			Total	23	100	734	100	2,668	100	10,580	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	0	0	35	5	105	4	411	4	3.5	3.2	.36	3.3	.23	3.3	.24
		2	Some	3	13	136	19	403	15	1,610	15							
		3	Quite a bit	6	26	240	33	800	30	3,234	31							
		4	Very much	14	61	324	44	1,355	51	5,320	50							
			Total	23	100	735	100	2,663	100	10,575	100							

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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	Carnegie Class				
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	3	13	95	13	256	10	1,070	10	2.8	2.7	.12	2.9	-.06	2.9	-.03	
		2	Some	6	26	227	31	648	24	2,692	25								
		3	Quite a bit	6	26	213	29	901	34	3,538	33								
		4	Very much	8	35	200	27	858	32	3,286	31								
		Total		23	100	735	100	2,663	100	10,586	100								
f. Working effectively with others	pgothers	1	Very little	1	4	63	9	213	8	797	8	3.0	2.8	.17	2.9	.07	2.9	.09	
		2	Some	6	26	221	30	651	24	2,763	26								
		3	Quite a bit	9	39	252	34	1,006	38	4,018	38								
		4	Very much	7	30	196	27	793	30	2,993	28								
		Total		23	100	732	100	2,663	100	10,571	100								
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	9	39	167	23	494	19	2,056	19	2.0	2.4	-.35	2.6 *	-.50	2.5 *	-.47	
		2	Some	7	30	231	31	787	30	3,169	30								
		3	Quite a bit	4	17	209	28	807	30	3,040	29								
		4	Very much	3	13	127	17	579	22	2,316	22								
		Total		23	100	734	100	2,667	100	10,581	100								
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	7	30	142	19	479	18	1,986	19	2.2	2.5	-.24	2.5	-.27	2.5	-.27	
		2	Some	7	30	247	34	930	35	3,523	33								
		3	Quite a bit	6	26	202	28	734	28	2,946	28								
		4	Very much	3	13	140	19	518	19	2,108	20								
		Total		23	100	731	100	2,661	100	10,563	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	1	4	104	14	302	11	1,190	11	3.3	2.7 **	.68	2.8 **	.59	2.8 **	.58	
		2	Some	2	9	222	30	759	28	2,944	28								
		3	Quite a bit	8	35	225	31	850	32	3,483	33								
		4	Very much	12	52	184	25	756	28	2,956	28								
		Total		23	100	735	100	2,667	100	10,573	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	4	17	196	27	567	21	2,367	22	2.5	2.3	.21	2.4	.09	2.4	.12	
		2	Some	9	39	256	35	922	35	3,676	35								
		3	Quite a bit	5	22	165	23	745	28	2,808	27								
		4	Very much	5	22	113	15	421	16	1,692	16								
		Total		23	100	730	100	2,655	100	10,543	100								

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

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

California State University-Chico

Seniors^a in Phys Sci, Math, CS

				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		Effect size ⁿ		
					%		%		%		%			Mean	Mean	Mean	Mean	
18. How would you evaluate your entire educational experience at this institution?																		
	evalexp	1	Poor	2	8	34	5	96	4	382	4	3.0	3.0	-.01	3.2	-.28	3.2	-.27
		2	Fair	4	17	142	19	352	13	1,443	14							
		3	Good	11	46	374	51	1,210	45	4,804	45							
		4	Excellent	7	29	187	25	1,024	38	3,997	38							
			Total	24	100	737	100	2,682	100	10,626	100							
19. If you could start over again, would you go to the same institution you are now attending?																		
	sameinst	1	Definitely no	4	17	51	7	181	7	668	6	2.8	3.0	-.18	3.1	-.30	3.1	-.31
		2	Probably no	3	13	137	19	380	14	1,594	15							
		3	Probably yes	10	42	311	42	1,112	41	4,364	41							
		4	Definitely yes	7	29	237	32	1,015	38	4,011	38							
			Total	24	100	736	100	2,688	100	10,637	100							

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

Respondent Profile: Phys Sci, Math, CS

California State University-Chico

Phys Sci, Math, CS

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	%
20a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One								22	92	633	86	2,168	81	8,554	80	
		More than one								2	8	105	14	522	19	2,108	20	
		Total								24	100	738	100	2,690	100	10,662	100	
First major or expected first major, in NSSE's default related-major categories. (Does not reflect any customization made for the Major Field Report)	MAJfirstcol <i>(Recoded from MAJfirst.)</i>	Arts & Humanities								0	0	0	0	0	0	0	0	
		Biological Sci., Agriculture, & Natural Resources								0	0	0	0	0	0	0	0	
		Physical Sci., Mathematics, & Computer Science								24	100	738	100	2,690	100	10,663	100	
		Social Sciences								0	0	0	0	0	0	0	0	
		Business								0	0	0	0	0	0	0	0	
		Communications, Media, & Public Relations								0	0	0	0	0	0	0	0	
		Education								0	0	0	0	0	0	0	0	
		Engineering								0	0	0	0	0	0	0	0	
		Health Professions								0	0	0	0	0	0	0	0	
		Social Service Professions								0	0	0	0	0	0	0	0	
		All Other								0	0	0	0	0	0	0	0	
		Undecided, Undeclared								0	0	0	0	0	0	0	0	
		Total								24	100	738	100	2,690	100	10,663	100	
Second major or expected second major, in NSSE's default related-major categories. (Does not reflect any customization made for the Major Field Report)	MAJsecondcol <i>(Recoded from MAJsecond.)</i>	Arts & Humanities								0	0	21	20	63	12	276	13	
		Biological Sci., Agriculture, & Natural Resources								0	0	10	10	56	11	220	10	
		Physical Sci., Mathematics, & Computer Science								2	100	38	36	173	33	775	37	
		Social Sciences								0	0	7	7	58	11	252	12	
		Business								0	0	4	4	36	7	119	6	
		Communications, Media, & Public Relations								0	0	3	3	3	1	18	1	
		Education								0	0	3	3	52	10	150	7	
		Engineering								0	0	9	9	30	6	140	7	
		Health Professions								0	0	2	2	9	2	36	2	
		Social Service Professions								0	0	1	1	15	3	31	1	
		All Other								0	0	6	6	25	5	77	4	
		Undecided, Undeclared								0	0	1	1	0	0	8	0	
		Total								2	100	105	100	520	100	2,102	100	

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

Respondent Profile: Phys Sci, Math, CS

California State University-Chico

Phys Sci, Math, CS

			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	3	0	7	0	26	0
		Sophomore									1	4	7	1	30	1	139	1
		Junior									3	13	73	10	251	9	1,061	10
		Senior									19	79	636	87	2,327	87	9,143	86
		Unclassified									1	4	16	2	67	2	247	2
		Total										24	100	735	100	2,682	100	10,616
22. Thinking about this current academic term, are you a full-time student?	fulltime	No									5	21	147	20	458	17	1,700	16
		Yes									19	79	582	80	2,201	83	8,863	84
		Total									24	100	729	100	2,659	100	10,563	100
23a. How many courses are you taking for credit this current academic term?	coursenum	0									2	8	19	3	51	2	191	2
		1									0	0	33	5	97	4	318	3
		2									0	0	48	7	173	6	636	6
		3									3	13	119	16	317	12	1,240	12
		4									8	33	251	34	802	30	3,310	31
		5									4	17	142	19	692	26	2,800	26
		6									2	8	54	7	315	12	1,251	12
		7 or more									5	21	67	9	233	9	868	8
		Total										24	100	733	100	2,680	100	10,614
b. Of these, how many are entirely online?	onlinenum	0									23	96	584	80	2,125	80	8,805	83
		1									0	0	102	14	306	11	1,152	11
		2									0	0	28	4	129	5	368	3
		3									0	0	9	1	31	1	88	1
		4									0	0	5	1	32	1	73	1
		5									0	0	0	0	13	0	21	0
		6									1	4	0	0	7	0	20	0
		7 or more									0	0	2	0	24	1	41	0
		Total										24	100	730	100	2,667	100	10,568
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum)	onlinecrsol	No courses taken online									23	96	584	80	2,125	80	8,805	83
		Some courses taken online									1	4	134	18	377	14	1,448	14
		All courses taken online									0	0	12	2	165	6	315	3
		Total									24	100	730	100	2,667	100	10,568	100

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

Respondent Profile: Phys Sci, Math, CS

California State University-Chico

Phys Sci, Math, CS

			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	%
24. What have most of your grades been up to now at this institution?	grades	C- or lower									1	4	6	1	10	0	50	0
		C									2	9	35	5	65	2	260	2
		C+									1	4	47	6	92	3	409	4
		B-									2	9	70	10	169	6	707	7
		B									6	26	184	25	453	17	1,991	19
		B+									3	13	131	18	464	17	1,807	17
		A-									3	13	106	14	508	19	1,994	19
		A									5	22	154	21	916	34	3,384	32
Total										23	100	733	100	2,677	100	10,602	100	
25. Did you begin college at this institution or elsewhere?	begincol	Started here									2	8	300	41	1,509	57	6,645	63
		Started elsewhere									22	92	433	59	1,159	43	3,945	37
		Total									24	100	733	100	2,668	100	10,590	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									3	13	42	6	158	6	493	5
		Community or junior college									20	83	424	58	994	37	3,458	33
		4-year college or university other than this one									7	29	195	27	760	29	2,647	25
		None									1	4	209	28	1,168	44	5,261	50
		Other									2	8	18	2	114	4	370	3
27. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree									0	0	40	5	90	3	336	3
		Bachelor's degree (B.A., B.S., etc.)									10	42	283	39	833	31	3,314	31
		Master's degree (M.A., M.S., etc.)									7	29	226	31	975	37	3,623	34
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)									7	29	184	25	767	29	3,308	31
		Total									24	100	733	100	2,665	100	10,581	100

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

Respondent Profile: Phys Sci, Math, CS

California State University-Chico

Phys Sci, Math, CS

			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	%	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									1	4	69	9	115	4	398	4			
		High school diploma or G.E.D.										5	21	119	16	455	17	1,510	14		
		Attended college, but did not complete degree										0	0	95	13	302	11	997	9		
		Associate's degree (A.A., A.S., etc.)										1	4	78	11	244	9	923	9		
		Bachelor's degree (B.A., B.S., etc.)										7	29	193	26	852	32	3,285	31		
		Master's degree (M.A., M.S., etc.)										6	25	124	17	514	19	2,313	22		
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)										4	17	52	7	185	7	1,151	11		
		Total										24	100	730	100	2,667	100	10,577	100		
First-generation status (No parent holds a bachelor's degree)	firstgen <i>(Recoded from parented)</i>	Not first-generation									17	71	369	51	1,551	58	6,749	64			
		First-generation									7	29	361	49	1,116	42	3,828	36			
		Total									24	100	730	100	2,667	100	10,577	100			
29. What is your gender identity?	genderid	Man									16	67	408	56	1,546	58	6,131	58			
		Woman									6	25	293	40	1,038	39	4,117	39			
		Another gender identity									1	4	5	1	27	1	104	1			
		I prefer not to respond									1	4	24	3	57	2	230	2			
		Total									24	100	730	100	2,668	100	10,582	100			
30. Enter your year of birth (e.g., 1994):	agecat <i>(Recoded from the information entered in birthyear)</i>	19 or younger									0	0	4	1	21	1	101	1			
		20-23									8	33	349	48	1,668	63	7,167	68			
		24-29									12	50	235	33	524	20	1,911	18			
		30-39									3	13	100	14	290	11	919	9			
		40-55									0	0	29	4	117	4	351	3			
		Over 55									1	4	5	1	26	1	62	1			
Total									24	100	722	100	2,646	100	10,511	100					
31a. Are you an international student?	internat	No									19	83	705	97	2,571	97	9,974	95			
		Yes									4	17	21	3	74	3	548	5			
		Total									23	100	726	100	2,645	100	10,522	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 <i>(Recoded from country.)</i>	Africa Sub-Saharan									1	25	1	5	4	6	44	8			
		Asia									2	50	14	67	40	59	337	64			
		Canada									0	0	0	0	2	3	10	2			
		Europe									0	0	2	10	7	10	49	9			
		Latin America and Caribbean									0	0	1	5	6	9	49	9			
		Middle East and North Africa									1	25	1	5	9	13	34	6			
		Oceania									0	0	2	10	0	0	3	1			
		Unknown region/uncoded									0	0	0	0	0	0	0	0			
Total										4	100	21	100	68	100	526	100				

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

Respondent Profile: Phys Sci, Math, CS

California State University-Chico

Phys Sci, Math, CS

			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									0	0	26	4	57	2	175	2
	re_asian	Asian									4	17	188	26	234	9	1,271	12
	re_black	Black or African American									1	4	24	3	141	5	589	6
	re_latino	Hispanic or Latino									3	13	141	19	227	9	890	8
	re_pacific	Native Hawaiian or Other Pacific Islander									0	0	23	3	15	1	81	1
	re_white	White									14	58	380	52	1,977	74	7,601	72
	re_other	Other									3	13	30	4	61	2	249	2
	re_pnr	I prefer not to respond									3	13	51	7	163	6	560	5
	Racial or ethnic identification	re_all	American Indian or Alaska Native									0	0	5	1	10	0	43
(Recoded from re_amind through re_pnr where each student is represented only once)		Asian									4	17	146	20	186	7	1,049	10
		Black or African American									0	0	10	1	113	4	471	4
		Hispanic or Latino									1	4	94	13	151	6	583	6
		Native Hawaiian/Other Pac. Islander									0	0	6	1	1	0	18	0
		White									10	42	293	40	1,815	68	6,958	66
		Other									2	8	16	2	36	1	147	1
		Multiracial									4	17	110	15	187	7	730	7
		I prefer not to respond									3	13	51	7	163	6	560	5
	Total									24	100	731	100	2,662	100	10,559	100	
33. Are you a member of a social fraternity or sorority?	greek	No									24	100	712	97	2,468	93	9,638	91
		Yes									0	0	21	3	196	7	925	9
		Total									24	100	733	100	2,664	100	10,563	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	37	5	480	18	2,231	21
		Fraternity or sorority house									0	0	4	1	18	1	165	2
		Residence (house, apartment, etc.) within walking distance to the institution									15	63	150	21	594	22	2,799	27
		Residence (house, apartment, etc.) farther than walking distance to the institution									8	33	512	70	1,479	56	5,110	48
		None of the above									1	4	28	4	90	3	255	2
		Total									24	100	731	100	2,661	100	10,560	100
35. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No									24	100	716	99	2,513	95	9,906	94
		Yes									0	0	10	1	141	5	616	6
		Total									24	100	726	100	2,654	100	10,522	100

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

Respondent Profile: Phys Sci, Math, CS

California State University-Chico

Phys Sci, Math, CS

			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									20	83	685	94	2,482	94	9,956	95	
		Yes									4	17	42	6	164	6	551	5	
		Total									24	100	727	100	2,646	100	10,507	100	
37a. Have you been diagnosed with any disability or impairment?	disability	No									18	75	620	85	2,236	84	8,903	84	
		Yes									3	13	84	11	319	12	1,231	12	
		I prefer not to respond									3	13	28	4	108	4	431	4	
		Total									24	100	732	100	2,663	100	10,565	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	33	15	18	50	16	188	15	
	dis_mobility	A mobility impairment									0	0	15	18	34	11	111	9	
	dis_learning	A learning disability (e.g., ADHD, dyslexia)									3	100	34	41	142	45	579	47	
	dis_mental	A mental health disorder									1	33	28	34	118	37	489	40	
	dis_other	A disability or impairment not listed above									0	0	16	19	55	17	213	17	
Disability or impairment	disability_all	A sensory impairment									0	0	6	1	30	1	105	1	
	(Recoded from disability and dis_sense through dis_other where each student is represented only once)	A mobility impairment									0	0	8	1	19	1	53	1	
		A learning disability									1	4	22	3	92	3	372	4	
		A mental health disorder									0	0	17	2	71	3	273	3	
		A disability or impairment not listed									0	0	10	1	39	1	129	1	
		More than one disability or impairment									2	8	20	3	66	2	294	3	
		No disability or impairment									18	75	620	85	2,236	84	8,903	84	
		Prefer not to respond									3	13	28	4	108	4	431	4	
	Total									24	100	731	100	2,661	100	10,560	100		
38. Which of the following best describes your sexual orientation? (Question administered per institution request)	sexorient14	Heterosexual									--	--	351	82	835	83	4,169	83	
		Gay									--	--	5	1	23	2	115	2	
		Lesbian										--	--	4	1	7	1	31	1
		Bisexual										--	--	21	5	30	3	200	4
		Another sexual orientation										--	--	14	3	23	2	110	2
		Questioning or unsure										--	--	7	2	11	1	55	1
		I prefer not to respond										--	--	24	6	76	8	351	7
		Total										--	--	426	100	1,005	100	5,031	100

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

Respondent Profile: Phys Sci, Math, CS

California State University-Chico

Phys Sci, Math, CS

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																		
<i>(Variables provided by your institution in your NSSE population file.)</i>																		
Institution-reported sex	IRsex	Female									6	25	305	41	1,069	40	4,259	40
		Male									18	75	433	59	1,621	60	6,403	60
		Total									24	100	738	100	2,690	100	10,662	100
Institution-reported race or ethnicity	IRrace	American Indian or Alaska Native									0	0	6	1	14	1	54	1
		Asian								1	4	114	18	144	6	695	7	
		Black or African American									0	0	4	1	119	5	443	5
		Hispanic or Latino									2	8	119	19	208	9	809	8
		Native Hawaiian/Other Pac. Islander									0	0	22	3	1	0	34	0
		White									9	38	273	43	1,666	70	6,631	68
		Other									0	0	0	0	0	0	0	0
		Foreign or nonresident alien									5	21	17	3	52	2	441	4
		Two or more races/ethnicities									1	4	47	7	71	3	295	3
		Unknown									6	25	39	6	111	5	400	4
Total										24	100	641	100	2,386	100	9,802	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									24	100	738	100	2,690	100	10,663	100
		Other									0	0	0	0	0	0	0	0
		Total									24	100	738	100	2,690	100	10,663	100
Institution-reported first-time first-year (FTFY) status	IRftfy	No									24	100	724	98	2,659	99	10,520	99
		Yes									0	0	14	2	31	1	142	1
		Total									24	100	738	100	2,690	100	10,662	100
Institution-reported enrollment status	IRenrollment	Not full-time									6	25	162	22	443	16	1,491	14
		Full-time									18	75	576	78	2,247	84	9,172	86
		Total									24	100	738	100	2,690	100	10,663	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.