
California State University-Chico

NSSE 2016 Major Field Report, Part II

Comparisons to Other Institutions

Engineering

*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 'Engineering' includes the following majors: Engineering (general); Aero-, astronautical engineering; Bioengineering; Biomedical engineering; Chemical engineering; Civil engineering; Computer engineering and technology; Electrical or electronic engineering; Industrial engineering; Materials engineering; Mechanical engineering; Petroleum engineering; Software engineering; Other engineering.

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: Engineering.

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 Engineering

Seniors in Engineering

Theme	Engagement Indicator	First-Year Students in Engineering			Seniors in Engineering		
		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				--	--	--

Seniors^a in Engineering

	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 = 53)	37.4	14.5	1.99	10	30	35	45	60				
Far West Public	39.7	13.8	.42	15	30	40	50	60	1,124	-2.3		-.166
Carnegie Class	39.5	13.7	.33	15	30	40	50	60	1,738	-2.1		-.156
NSSE 2015 & 2016	38.9	13.4	.11	15	30	40	50	60	14,942	-1.6		-.118
Reflective & Integrative Learning												
CSU, Chico (N = 55)	32.5	12.1	1.63	11	23	34	40	51				
Far West Public	32.8	12.6	.38	14	23	31	40	57	1,149	-.2		-.019
Carnegie Class	32.9	12.3	.30	14	26	31	40	54	1,770	-.3		-.027
NSSE 2015 & 2016	32.7	12.0	.10	14	26	31	40	54	15,221	-.2		-.018
Learning Strategies												
CSU, Chico (N = 55)	34.7	11.3	1.52	20	27	33	40	60				
Far West Public	36.2	14.7	.45	13	27	33	47	60	64	-1.5		-.106
Carnegie Class	37.0	14.9	.36	13	27	40	47	60	60	-2.3		-.157
NSSE 2015 & 2016	35.4	14.7	.12	13	27	33	47	60	55	-.8		-.052
Quantitative Reasoning												
CSU, Chico (N = 55)	38.5	15.6	2.11	20	27	40	53	60				
Far West Public	36.5	15.8	.48	7	27	33	47	60	1,150	2.1		.132
Carnegie Class	36.7	15.8	.38	7	27	40	47	60	1,769	1.8		.116
NSSE 2015 & 2016	36.8	15.4	.13	13	27	40	47	60	15,177	1.7		.113
Learning with Peers												
Collaborative Learning												
CSU, Chico (N = 55)	38.9	12.6	1.71	20	30	40	50	60				
Far West Public	39.8	13.7	.42	15	30	40	50	60	1,144	-.9		-.064
Carnegie Class	38.8	14.3	.34	15	30	40	50	60	1,773	.1		.008
NSSE 2015 & 2016	40.1	13.7	.11	20	30	40	50	60	15,088	-1.2		-.087
Discussions with Diverse Others												
CSU, Chico (N = 54)	43.2	16.6	2.26	20	30	45	60	60				
Far West Public	41.9	16.8	.51	10	30	40	60	60	1,140	1.4		.082
Carnegie Class	39.1	16.6	.40	10	25	40	55	60	1,748	4.2		.251
NSSE 2015 & 2016	40.7	16.2	.13	15	30	40	60	60	15,103	2.6		.160

Seniors^a in Engineering

	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 = 54)	22.4	14.6	1.99	0	10	25	30	50				
Far West Public	22.4	15.0	.46	0	10	20	35	50	1,139	.0		.003
Carnegie Class	24.6	16.1	.39	0	10	20	35	60	1,757	-2.1		-.133
NSSE 2015 & 2016	23.2	15.3	.12	0	10	20	35	55	15,061	-.8		-.052
Effective Teaching Practices												
CSU, Chico (N = 55)	35.1	13.0	1.75	8	28	36	40	60				
Far West Public	36.8	13.2	.40	16	28	36	48	60	1,155	-1.7		-.127
Carnegie Class	38.2	13.9	.33	16	28	40	48	60	1,781	-3.1		-.222
NSSE 2015 & 2016	37.1	13.3	.11	16	28	36	48	60	15,275	-2.0		-.151
Campus Environment												
Quality of Interactions												
CSU, Chico (N = 54)	40.3	10.7	1.45	20	33	42	48	56				
Far West Public	40.9	11.6	.36	20	34	42	50	60	1,107	-.6		-.052
Carnegie Class	41.6	12.0	.29	18	34	43	50	60	1,709	-1.3		-.111
NSSE 2015 & 2016	41.4	11.4	.09	20	34	42	50	60	14,743	-1.1		-.100
Supportive Environment												
CSU, Chico (N = 54)	28.4	15.2	2.07	5	18	28	38	58				
Far West Public	29.5	13.6	.41	8	20	28	40	55	1,151	-1.0		-.076
Carnegie Class	30.5	14.4	.35	8	20	30	40	58	1,774	-2.1		-.147
NSSE 2015 & 2016	31.3	13.7	.11	10	23	30	40	58	15,184	-2.9		-.212

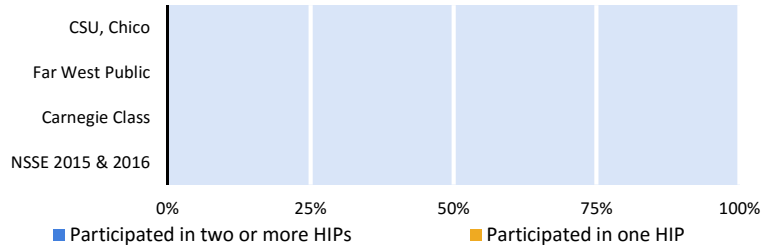
NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

High-Impact Practices: Engineering California State University-Chico

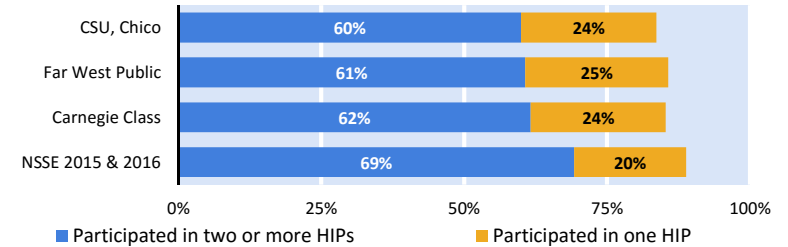
Overall HIP Participation^a

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 Engineering



Seniors in Engineering



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 Engineering</i>								
11c. Learning community								
12. Service-learning								
11e. Research with faculty								
Participated in at least one								
Participated in two or more								
<i>Seniors in Engineering</i>								
11c. Learning community	29		25	.09	25	.10	28	.03
12. Service-learning	58		45	.27	50	.16	45 *	.27
11e. Research with faculty	28		26	.03	30	-.04	32	-.10
11a. Internship or field exp.	44		48	-.09	53	-.18	62 **	-.36
11d. Study abroad	5		6	-.03	7	-.08	12	-.22
11f. Culminating senior exp.	50		54	-.08	53	-.07	58	-.16
Participated in at least one	84		86	-.06	85	-.05	89	-.15
Participated in two or more	60		61	-.01	62	-.03	69	-.19

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	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 20 23 11	2 36 42 20	57 400 339 308	5 36 31 28	59 487 570 619	3 28 33 36	607 5,302 5,107 4,231	4 35 33 28	2.8	2.8	-.01	3.0	-.24	2.9	-.06							
Total				55	100	1,104	100	1,735	100	15,247	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	16 24 8 7	29 44 15 13	262 432 263 148	24 39 24 13	386 639 428 276	22 37 25 16	3,992 5,726 3,560 1,918	26 38 23 13								2.1	2.3	-.16	2.3	-.24	2.2	-.12
Total				55	100	1,105	100	1,729	100	15,196	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	2 9 37 7	4 16 67 13	90 197 619 194	8 18 56 18	110 244 973 401	6 14 56 23	1,008 2,513 8,339 3,327	7 17 55 22														
Total				55	100	1,100	100	1,728	100	15,187	100														
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendart	1 2 3 4	Never Sometimes Often Very often	28 21 3 2	52 39 6 4	599 367 81 50	55 33 7 5	934 577 137 76	54 33 8 4	7,355 5,633 1,544 637	48 37 10 4	1.6	1.6	-.01	1.6	-.02	1.7	-.11							
Total				54	100	1,097	100	1,724	100	15,169	100														
e. Asked another student to help you understand course material	CLaskhelp	1 2 3 4	Never Sometimes Often Very often	4 20 21 10	7 36 38 18	38 386 370 309	3 35 34 28	121 655 525 432	7 38 30 25	820 5,091 5,238 4,051	5 33 34 27								2.7	2.9	-.22	2.7	-.06	2.8	-.17
Total				55	100	1,103	100	1,733	100	15,200	100														
f. Explained course material to one or more students	CLexplain	1 2 3 4	Never Sometimes Often Very often	0 15 27 13	0 27 49 24	17 305 443 334	2 28 40 30	36 468 695 530	2 27 40 31	277 3,786 6,347 4,779	2 25 42 31														
Total				55	100	1,099	100	1,729	100	15,189	100														

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Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	3	5	91	8	182	11	1,353	9	3.0	2.9	.12	2.8	.17	2.9	.10
		2	Sometimes	11	20	313	28	501	29	4,168	27							
		3	Often	25	45	350	32	504	29	4,599	30							
		4	Very often	16	29	350	32	542	31	5,086	33							
		Total		55	100	1,104	100	1,729	100	15,206	100							
h. Worked with other students on course projects or assignments	CLproject	1	Never	1	2	29	3	55	3	312	2	3.2	3.2	-.07	3.2	-.06	3.3	-.15
		2	Sometimes	13	24	193	17	294	17	2,319	15							
		3	Often	17	31	386	35	602	35	5,297	35							
		4	Very often	24	44	496	45	781	45	7,285	48							
		Total		55	100	1,104	100	1,732	100	15,213	100							
i. Given a course presentation	present	1	Never	6	11	143	13	185	11	1,662	11	2.6	2.6	.05	2.7	-.06	2.7	-.02
		2	Sometimes	20	36	400	37	605	35	5,344	35							
		3	Often	17	31	311	28	495	29	4,816	32							
		4	Very often	12	22	240	22	440	26	3,371	22							
		Total		55	100	1,094	100	1,725	100	15,193	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	4	29	3	48	3	353	2	3.1	3.0	.07	3.0	.11	3.0	.13
		2	Sometimes	10	18	265	24	430	25	3,986	26							
		3	Often	24	44	447	41	715	42	6,403	42							
		4	Very often	19	35	357	33	529	31	4,458	29							
		Total		55	100	1,098	100	1,722	100	15,200	100							
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	5	9	175	16	251	15	2,089	14	2.6	2.4	.22	2.4	.20	2.4	.23
		2	Sometimes	20	36	459	42	711	42	6,662	44							
		3	Often	21	38	299	27	503	29	4,415	29							
		4	Very often	9	16	163	15	244	14	1,974	13							
		Total		55	100	1,096	100	1,709	100	15,140	100							
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIDiverse	1	Never	19	35	378	34	555	32	4,916	32	1.9	2.0	-.06	2.0	-.12	2.0	-.09
		2	Sometimes	24	44	458	42	711	41	6,511	43							
		3	Often	10	18	187	17	319	19	2,657	18							
		4	Very often	2	4	76	7	130	8	1,063	7							
		Total		55	100	1,099	100	1,715	100	15,147	100							

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	5	9	129	12	194	11	1,526	10	2.5	2.5	-.07	2.5	-.06	2.5	-.08
		2	Sometimes	24	44	427	39	664	39	5,985	39							
		3	Often	19	35	356	32	605	35	5,453	36							
		4	Very often	6	11	184	17	252	15	2,190	14							
		Total		54	100	1,096	100	1,715	100	15,154	100							
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	RIperspect	1	Never	4	7	103	9	162	9	1,233	8	2.7	2.7	.01	2.6	.05	2.7	.02
		2	Sometimes	19	35	370	34	591	34	5,386	36							
		3	Often	22	40	396	36	648	38	5,648	37							
		4	Very often	10	18	227	21	314	18	2,874	19							
		Total		55	100	1,096	100	1,715	100	15,141	100							
f. Learned something that changed the way you understand an issue or concept	RInewview	1	Never	4	7	41	4	73	4	580	4	2.6	2.8	-.26	2.8	-.24	2.8	-.25
		2	Sometimes	22	40	375	34	586	34	5,124	34							
		3	Often	22	40	446	41	707	41	6,460	43							
		4	Very often	7	13	228	21	348	20	2,964	20							
		Total		55	100	1,090	100	1,714	100	15,128	100							
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	2	4	25	2	38	2	252	2	3.0	3.1	-.05	3.1	-.08	3.1	-.07
		2	Sometimes	13	24	265	24	361	21	3,275	22							
		3	Often	22	40	421	39	729	43	6,744	45							
		4	Very often	18	33	380	35	582	34	4,819	32							
		Total		55	100	1,091	100	1,710	100	15,090	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	15	27	254	23	368	21	3,138	21	2.2	2.2	-.04	2.3	-.14	2.3	-.11
		2	Sometimes	21	38	477	44	689	40	6,544	43							
		3	Often	13	24	232	21	402	23	3,455	23							
		4	Very often	6	11	132	12	260	15	2,001	13							
		Total		55	100	1,095	100	1,719	100	15,138	100							
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	21	38	468	43	671	39	5,930	39	1.9	2.0	-.01	2.0	-.08	2.0	-.07
		2	Sometimes	21	38	323	29	520	30	4,757	31							
		3	Often	8	15	194	18	323	19	2,704	18							
		4	Very often	5	9	110	10	200	12	1,717	11							
		Total		55	100	1,095	100	1,714	100	15,108	100							

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Frequencies and Statistical Comparisons: Engineering

California State University-Chico

Seniors^a in Engineering

				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
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	10	18	240	22	324	19	3,121	21	2.3	2.2	.09	2.4	-.07	2.3	.05
		2	Sometimes	24	44	482	44	668	39	6,584	44							
		3	Often	15	27	256	23	485	28	3,657	24							
		4	Very often	6	11	116	11	239	14	1,754	12							
		Total		55	100	1,094	100	1,716	100	15,116	100							
d. Discussed your academic performance with a faculty member	SFperform	1	Never	17	31	288	26	412	24	4,043	27	2.1	2.1	-.02	2.2	-.15	2.1	-.03
		2	Sometimes	21	39	518	47	758	44	7,070	47							
		3	Often	12	22	208	19	353	21	2,732	18							
		4	Very often	4	7	80	7	195	11	1,251	8							
		Total		54	100	1,094	100	1,718	100	15,096	100							
4. During the current school year, how much has your coursework emphasized the following?																		
a. Memorizing course material	memorize	1	Very little	4	7	124	11	198	11	1,665	11	2.7	2.6	.15	2.6	.18	2.5	.20
		2	Some	17	31	418	38	629	36	5,889	39							
		3	Quite a bit	23	43	349	32	622	36	5,253	35							
		4	Very much	10	19	209	19	276	16	2,366	16							
		Total		54	100	1,100	100	1,725	100	15,173	100							
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	2	4	19	2	35	2	265	2	3.2	3.4	-.26	3.3	-.22	3.3	-.22
		2	Some	8	15	121	11	202	12	1,799	12							
		3	Quite a bit	23	43	404	37	639	37	5,749	38							
		4	Very much	21	39	552	50	846	49	7,330	48							
		Total		54	100	1,096	100	1,722	100	15,143	100							
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	2	4	53	5	72	4	697	5	3.1	3.1	-.03	3.1	-.04	3.1	.02
		2	Some	11	21	196	18	324	19	2,915	19							
		3	Quite a bit	19	36	389	36	602	35	5,709	38							
		4	Very much	21	40	456	42	717	42	5,791	38							
		Total		53	100	1,094	100	1,715	100	15,112	100							
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	9	17	147	13	234	14	2,191	14	2.5	2.6	-.12	2.6	-.13	2.5	-.08
		2	Some	20	37	380	35	577	34	5,343	35							
		3	Quite a bit	16	30	357	33	563	33	4,809	32							
		4	Very much	9	17	208	19	343	20	2,776	18							
		Total		54	100	1,092	100	1,717	100	15,119	100							

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	6	11	73	7	126	7	1,083	7	2.7	2.8	-.14	2.8	-.12	2.8	-.10
		2	Some	15	28	306	28	484	28	4,350	29							
		3	Quite a bit	21	39	430	39	668	39	5,979	40							
		4	Very much	12	22	284	26	441	26	3,712	25							
		Total		54	100	1,093	100	1,719	100	15,124	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	4	7	31	3	58	3	440	3	2.9	3.0	-.22	3.1	-.25	3.0	-.22
		2	Some	12	22	226	20	334	19	3,085	20							
		3	Quite a bit	27	49	526	48	792	46	7,299	48							
		4	Very much	12	22	320	29	544	31	4,401	29							
		Total		55	100	1,103	100	1,728	100	15,225	100							
b. Taught course sessions in an organized way	ETorganize	1	Very little	3	6	37	3	66	4	502	3	3.0	2.9	.02	3.0	-.07	3.0	-.05
		2	Some	8	15	261	24	350	20	3,172	21							
		3	Quite a bit	31	57	526	48	793	46	7,324	48							
		4	Very much	12	22	277	25	515	30	4,197	28							
		Total		54	100	1,101	100	1,724	100	15,195	100							
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	2	4	34	3	73	4	524	3	3.1	3.1	.11	3.1	.04	3.1	.08
		2	Some	4	7	222	20	296	17	2,914	19							
		3	Quite a bit	33	60	486	44	725	42	6,561	43							
		4	Very much	16	29	353	32	631	37	5,181	34							
		Total		55	100	1,095	100	1,725	100	15,180	100							
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	9	16	156	14	221	13	2,439	16	2.4	2.5	-.15	2.6	-.25	2.5	-.11
		2	Some	21	38	404	37	570	33	5,385	36							
		3	Quite a bit	20	36	354	32	580	34	4,845	32							
		4	Very much	5	9	187	17	349	20	2,493	16							
		Total		55	100	1,101	100	1,720	100	15,162	100							
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	7	13	103	9	163	9	1,417	9	2.5	2.7	-.23	2.8 *	-.33	2.7	-.26
		2	Some	25	45	367	33	478	28	4,774	32							
		3	Quite a bit	14	25	434	40	688	40	6,111	40							
		4	Very much	9	16	193	18	390	23	2,846	19							
		Total		55	100	1,097	100	1,719	100	15,148	100							

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	0	0	35	3	53	3	373	2	3.3	3.2	.14	3.2	.11	3.2	.11							
		2	Sometimes	11	20	213	19	297	17	2,685	18														
		3	Often	18	33	400	36	652	38	5,885	39														
		4	Very often	26	47	456	41	724	42	6,268	41														
			Total	55	100	1,104	100	1,726	100	15,211	100														
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	4	7	166	15	258	15	2,389	16	2.8	2.6	.17	2.7	.15	2.6	.18							
		2	Sometimes	19	35	352	32	526	31	4,668	31														
		3	Often	15	27	294	27	485	28	4,288	28														
		4	Very often	17	31	289	26	455	26	3,849	25														
			Total	55	100	1,101	100	1,724	100	15,194	100														
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	5	9	119	11	189	11	1,420	9	2.7	2.7	.02	2.7	.03	2.7	-.01							
		2	Sometimes	22	40	369	34	595	34	5,109	34														
		3	Often	13	24	363	33	550	32	5,229	34														
		4	Very often	15	27	249	23	392	23	3,425	23														
			Total	55	100	1,100	100	1,726	100	15,183	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	9	106	10	168	10	1,417	10	6.6	6.8	-.04	6.6	.00	6.4	.04							
		1.5	1-2	14	25	247	23	373	22	3,550	24														
	(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	13	24	276	26	458	27	4,153	28														
		8	6-10	13	24	200	19	343	21	2,858	19														
		13	11-15	3	5	78	7	138	8	1,250	8														
		18	16-20	3	5	50	5	69	4	627	4														
		23	More than 20	4	7	96	9	122	7	944	6														
			Total	55	100	1,053	100	1,671	100	14,799	100														
b. Between 6 and 10 pages	wrmednum	0	None	19	36	226	22	432	26	3,818	26	3.0	4.4	-.26	3.9	-.18	3.6	-.14							
		1.5	1-2	14	26	315	31	498	30	4,755	33														
	(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	11	21	235	23	354	22	3,209	22														
		8	6-10	7	13	139	13	211	13	1,661	11														
		13	11-15	1	2	61	6	73	4	610	4														
		18	16-20	0	0	15	1	29	2	253	2														
		23	More than 20	1	2	40	4	44	3	296	2														
			Total	53	100	1,031	100	1,641	100	14,602	100														

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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									<i>Your seniors compared with</i>							
				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	26	50	373	36	661	40	5,548	38	1.9	3.4 ** ▽	-0.30	3.0 * ▽	-0.23	2.8	-0.21	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	17	33	308	30	511	31	4,867	33								
		4	3-5	5	10	177	17	212	13	2,102	14								
		8	6-10	2	4	99	9	130	8	1,116	8								
		13	11-15	1	2	27	3	54	3	493	3								
		18	16-20	0	0	19	2	28	2	196	1								
		23	More than 20	1	2	41	4	46	3	282	2								
		Total			52	100	1,044	100	1,642	100	14,604								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.)									71.6	101.1	-0.26	91.4	-0.18	87.6	-0.16	
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	3	5	57	5	120	7	922	6	3.2	3.2	.01	3.0	.21	3.0	.14	
		2	Sometimes	11	20	232	21	454	26	3,720	24								
		3	Often	14	25	282	26	492	29	4,329	28								
		4	Very often	27	49	534	48	659	38	6,243	41								
			Total	55	100	1,105	100	1,725	100	15,214	100								
b. People from an economic background other than your own	DDeconomic	1	Never	2	4	46	4	105	6	733	5	3.3	3.1	.15	3.0 *	.29	3.1	.22	
		2	Sometimes	9	16	234	21	432	25	3,431	23								
		3	Often	17	31	364	33	569	33	5,200	34								
		4	Very often	27	49	461	42	614	36	5,829	38								
			Total	55	100	1,105	100	1,720	100	15,193	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	3	6	74	7	124	7	1,005	7	3.1	3.1	.07	2.9	.21	3.0	.13	
		2	Sometimes	11	20	250	23	471	27	3,693	24								
		3	Often	16	30	308	28	527	31	4,652	31								
		4	Very often	24	44	470	43	594	35	5,820	38								
			Total	54	100	1,102	100	1,716	100	15,170	100								
d. People with political views other than your own	DDpolitical	1	Never	2	4	81	7	133	8	852	6	3.1	3.0	.11	2.9	.19	3.0	.10	
		2	Sometimes	14	25	281	26	440	26	3,699	24								
		3	Often	15	27	289	26	557	33	4,961	33								
		4	Very often	24	44	441	40	578	34	5,611	37								
			Total	55	100	1,092	100	1,708	100	15,123	100								

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k								
								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	
9. During the current school year, about how often have you done the following?																				
a. Identified key information from reading assignments	LSreading	1	Never	2	4	51	5	82	5	742	5	2.8	3.0	-.15	2.9	-.13	2.9	-.09		
		2	Sometimes	16	29	284	26	451	26	4,170	27									
		3	Often	27	49	441	40	695	40	6,160	41									
		4	Very often	10	18	331	30	498	29	4,119	27									
		Total		55	100	1,107	100	1,726	100	15,191	100									
b. Reviewed your notes after class	LSnotes	1	Never	2	4	92	8	121	7	1,250	8	2.7	2.8	-.06	2.9	-.13	2.8	-.01		
		2	Sometimes	22	40	361	33	502	29	5,097	34									
		3	Often	19	35	327	30	588	34	4,871	32									
		4	Very often	12	22	324	29	512	30	3,944	26									
		Total		55	100	1,104	100	1,723	100	15,162	100									
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	3	5	111	10	152	9	1,532	10	2.6	2.7	-.05	2.8	-.13	2.7	-.02		
		2	Sometimes	23	42	376	34	524	31	5,287	35									
		3	Often	20	36	360	33	621	36	5,035	33									
		4	Very often	9	16	253	23	412	24	3,198	21									
		Total		55	100	1,100	100	1,709	100	15,052	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	13	1	107	1	5.8	5.6	.15	5.7	.12	5.6	.18
				2		1	2	17	2	41	2	232	2							
				3		1	2	32	3	54	3	517	3							
				4		1	2	104	9	142	8	1,334	9							
				5		15	27	309	28	425	25	4,254	28							
				6		23	42	325	29	517	30	4,812	32							
				7	Very much	14	25	314	28	532	31	3,924	26							
			Total			55	100	1,108	100	1,724	100	15,180	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	9	62	6	86	5	653	4	44%	48%	-.09	53%	-.18	62% **	-0.36		
		Do not plan to do		6	11	122	11	185	11	1,461	10									
		Plan to do		20	36	392	35	543	31	3,731	25									
		Done or in progress		24	44	533	48	911	53	9,359	62									
		Total		55	100	1,109	100	1,725	100	15,204	100									

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

			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
b. Hold a formal leadership role in a student organization or group	leader		Have not decided	4	7	124	11	177	10	1,327	9	44%	38%	.12	38%	.12	46%	-.06
			Do not plan to do	19	35	461	42	724	42	5,487	36							
			Plan to do	8	15	107	10	168	10	1,311	9							
			Done or in progress	24	44	416	38	650	38	7,060	46							
			Total	55	100	1,108	100	1,719	100	15,185	100							
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom		Have not decided	5	9	151	14	234	14	1,628	11	29%	25%	.09	25%	.10	28%	.03
			Do not plan to do	30	55	573	52	886	52	8,081	53							
			Plan to do	4	7	104	9	176	10	1,272	8							
			Done or in progress	16	29	277	25	423	25	4,198	28							
			Total	55	100	1,105	100	1,719	100	15,179	100							
d. Participate in a study abroad program	abroad		Have not decided	6	11	124	11	177	10	1,415	9	5%	6%	-.03	7%	-.08	12%	-.22
			Do not plan to do	43	78	807	73	1,267	74	10,931	72							
			Plan to do	3	5	101	9	144	8	1,066	7							
			Done or in progress	3	5	69	6	127	7	1,745	12							
			Total	55	100	1,101	100	1,715	100	15,157	100							
e. Work with a faculty member on a research project	research		Have not decided	10	19	183	17	300	17	2,076	14	28%	26%	.03	30%	-.04	32%	-.10
			Do not plan to do	19	35	396	36	604	35	5,672	38							
			Plan to do	10	19	230	21	304	18	2,512	17							
			Done or in progress	15	28	288	26	507	30	4,865	32							
			Total	54	100	1,097	100	1,715	100	15,125	100							
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone		Have not decided	3	6	50	5	90	5	587	4	50%	54%	-.08	53%	-.07	58%	-.16
			Do not plan to do	3	6	59	5	131	8	867	6							
			Plan to do	21	39	399	36	581	34	4,909	32							
			Done or in progress	27	50	597	54	917	53	8,813	58							
			Total	54	100	1,105	100	1,719	100	15,176	100							
12. About how many of your courses at this institution have included a community-based project (service-learning)?																		
	servcourse		1 None	23	42	607	55	854	50	8,361	55	1.7	1.5	.19	1.6	.09	1.5	.22
			2 Some	28	51	416	38	726	42	5,892	39							
			3 Most	4	7	64	6	100	6	712	5							
			4 All	0	0	13	1	31	2	156	1							
			Total	55	100	1,100	100	1,711	100	15,121	100							

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Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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					
				Count	%	Count	%	Count	%	Count	%												
13. Indicate the quality of your interactions with the following people at your institution.																							
a. Students	QIstudent	1	Poor	0	0	7	1	19	1	126	1	5.7	5.8	-.11	5.7	-.06	5.8	-.08					
		2		0	0	11	1	25	1	181	1												
		3		5	9	31	3	56	3	498	3												
		4		7	13	82	7	134	8	1,146	8												
		5		8	15	242	22	376	22	3,366	22												
		6		16	29	368	33	544	31	4,850	32												
		7	Excellent	19	35	362	33	569	33	4,991	33												
		—	Not applicable	0	0	4	0	6	0	63	0												
			Total	55	100	1,107	100	1,729	100	15,221	100												
b. Academic advisors	QIadvisor	1	Poor	4	7	68	6	101	6	854	6	4.9	4.9	-.01	5.1	-.10	5.0	-.05					
		2		5	9	60	5	86	5	879	6												
		3		3	5	93	8	126	7	1,289	8												
		4		4	7	158	14	211	12	2,010	13												
		5		9	16	229	21	353	20	2,930	19												
		6		17	31	211	19	356	21	3,163	21												
		7	Excellent	10	18	264	24	469	27	3,892	26												
		—	Not applicable	3	5	22	2	25	1	182	1												
			Total	55	100	1,105	100	1,727	100	15,199	100												
c. Faculty	QIfaculty	1	Poor	1	2	22	2	33	2	296	2	5.2	5.2	.01	5.4	-.12	5.3	-.06					
		2		3	6	33	3	52	3	469	3												
		3		3	6	78	7	111	6	898	6												
		4		6	11	170	15	212	12	2,066	14												
		5		14	26	288	26	388	23	3,921	26												
		6		19	35	309	28	508	29	4,376	29												
		7	Excellent	8	15	198	18	415	24	3,073	20												
		—	Not applicable	0	0	3	0	5	0	48	0												
			Total	54	100	1,101	100	1,724	100	15,147	100												

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Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	11	21	239	22	321	19	2,917	19	2.4	2.4	.06	2.5	-.03	2.4	.01
		2	Some	17	32	372	34	583	34	5,320	35							
		3	Quite a bit	16	30	321	29	505	29	4,364	29							
		4	Very much	9	17	162	15	311	18	2,511	17							
		Total		53	100	1,094	100	1,720	100	15,112	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	5	9	118	11	191	11	1,271	8	2.7	2.7	.01	2.7	-.04	2.8	-.12
		2	Some	19	35	343	31	503	29	4,318	29							
		3	Quite a bit	19	35	436	40	666	39	6,040	40							
		4	Very much	11	20	205	19	366	21	3,510	23							
		Total		54	100	1,102	100	1,726	100	15,139	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	5	10	153	14	259	15	1,721	11	2.8	2.6	.16	2.6	.16	2.7	.05
		2	Some	16	31	329	30	506	29	4,213	28							
		3	Quite a bit	17	33	405	37	594	35	5,713	38							
		4	Very much	14	27	214	19	359	21	3,465	23							
		Total		52	100	1,101	100	1,718	100	15,112	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	18	33	404	37	616	36	5,321	35	2.1	2.0	.08	2.0	.01	2.0	.03
		2	Some	21	39	396	36	579	34	5,431	36							
		3	Quite a bit	9	17	212	19	354	21	3,059	20							
		4	Very much	6	11	85	8	169	10	1,303	9							
		Total		54	100	1,097	100	1,718	100	15,114	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	14	26	174	16	311	18	1,982	13	2.3	2.5	-.21	2.5	-.20	2.6 *	-0.35
		2	Some	17	31	377	34	532	31	4,683	31							
		3	Quite a bit	16	30	378	34	599	35	5,465	36							
		4	Very much	7	13	168	15	281	16	2,975	20							
		Total		54	100	1,097	100	1,723	100	15,105	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	15	28	286	26	415	24	3,431	23	2.2	2.2	.00	2.3	-.11	2.3	-.10
		2	Some	22	41	436	40	632	37	5,982	40							
		3	Quite a bit	10	19	277	25	450	26	3,953	26							
		4	Very much	7	13	94	9	214	13	1,684	11							
		Total		54	100	1,093	100	1,711	100	15,050	100							

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	32	59	532	48	727	42	8,780	58	6.8	10.0 *	-27	12.0 ***	-41	7.9	-10
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	2	59	5	79	5	713	5							
	8	6-10 hrs	5	9	64	6	113	7	886	6								
	13	11-15 hrs	4	7	65	6	117	7	909	6								
	18	16-20 hrs	7	13	132	12	180	11	1,183	8								
	23	21-25 hrs	1	2	80	7	132	8	781	5								
	28	26-30 hrs	2	4	38	3	87	5	442	3								
	33	More than 30 hrs	2	4	127	12	279	16	1,410	9								
Total				54	100	1,097	100	1,714	100	15,104	100							
Estimated number of hours working for pay	tmworkhrs		(Continuous variable created by NSSE)									9.8	13.4 *	-29	15.2 ***	-40	11.8	-16
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	33	61	697	64	1,040	61	8,809	59	2.6	2.2	.09	2.5	.04	2.2	.10
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	16	30	267	25	459	27	4,757	32							
	8	6-10 hrs	2	4	55	5	88	5	738	5								
	13	11-15 hrs	1	2	28	3	51	3	353	2								
	18	16-20 hrs	0	0	24	2	34	2	213	1								
	23	21-25 hrs	0	0	10	1	15	1	100	1								
	28	26-30 hrs	0	0	2	0	6	0	33	0								
	33	More than 30 hrs	2	4	3	0	10	1	54	0								
Total				54	100	1,086	100	1,703	100	15,057	100							
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	2	4	40	4	63	4	415	3	12.4	10.6	.24	10.4	.25	11.3	.13
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	9	17	290	27	487	28	3,578	24							
	8	6-10 hrs	16	30	325	30	483	28	4,362	29								
	13	11-15 hrs	11	20	200	18	288	17	2,886	19								
	18	16-20 hrs	6	11	121	11	215	13	1,962	13								
	23	21-25 hrs	6	11	46	4	83	5	802	5								
	28	26-30 hrs	1	2	28	3	38	2	369	2								
	33	More than 30 hrs	3	6	44	4	62	4	729	5								
Total				54	100	1,094	100	1,719	100	15,103	100							

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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																								
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	43	83	718	65	1,120	65	11,227	74	1.5	▼	4.5 ***	-0.35	▼	5.3 ***	-0.39	▼	3.5 **	-0.24						
	(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	10	130	12	182	11	1,371	9																
	8	6-10 hrs	2	4	73	7	93	5	659	4																	
	13	11-15 hrs	1	2	49	4	59	3	438	3																	
	18	16-20 hrs	0	0	42	4	77	4	416	3																	
	23	21-25 hrs	0	0	18	2	24	1	195	1																	
	28	26-30 hrs	0	0	7	1	25	1	126	1																	
	33	More than 30 hrs	1	2	60	5	134	8	665	4																	
	Total		52	100	1,097	100	1,714	100	15,097	100																	
	h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	2	4	54	5	211	12	1,978											13	4.5	▼	5.9 *	-0.27	▼
(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)		3	1-5 hrs	43	80	643	59	927	54	9,025	59																
8		6-10 hrs	3	6	248	23	349	20	2,713	18																	
13		11-15 hrs	4	7	90	8	136	8	824	5																	
18		16-20 hrs	2	4	35	3	55	3	334	2																	
23		21-25 hrs	0	0	11	1	22	1	126	1																	
28		26-30 hrs	0	0	6	1	4	0	56	0																	
33		More than 30 hrs	0	0	12	1	22	1	117	1																	
Total		54	100	1,099	100	1,726	100	15,173	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	14	26	348	32	507	30	5,108	34	2.1	2.1	.01	2.2	-0.06	2.0	.06									
	(Revised for 2014. Comparison data are limited to NSSE 2014 participating institutions.)	2	Some	25	46	434	40	668	39	6,082	40																
	3	About half	11	20	205	19	329	19	2,428	16																	
	4	Most	3	6	75	7	144	8	1,086	7																	
	5	Almost all	1	2	33	3	65	4	420	3																	
	Total		54	100	1,095	100	1,713	100	15,124	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)																											
5.6																											
5.7 -0.01 5.6 -0.01 5.4 .04																											

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

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	5	0	12	1	65	0								
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	27	50	650	60	1,022	60	9,280	62								
		3	More than 5, up to 10 hrs	21	39	285	26	436	26	3,888	26								
		4	More than 10, up to 15 hrs	3	6	71	7	96	6	810	5								
		5	More than 15, up to 20 hrs	1	2	47	4	75	4	568	4								
		6	More than 20, up to 25 hrs	2	4	24	2	40	2	315	2								
		7	More than 25 hrs	0	0	10	1	23	1	134	1								
			Total	54	100	1,092	100	1,704	100	15,060	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	7	13	119	11	169	10	1,682	11	2.5	2.8 *	-0.29	2.8 *	-0.34	2.7	-0.24
		2	Some	20	37	304	27	462	27	4,525	30			▽		▽		
		3	Quite a bit	21	39	414	37	635	37	5,590	37							
		4	Very much	6	11	269	24	462	27	3,394	22							
			Total	54	100	1,106	100	1,728	100	15,191	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	6	11	136	12	192	11	1,770	12	2.6	2.7	-0.14	2.8	-0.21	2.7	-0.15
		2	Some	21	38	322	29	473	27	4,355	29							
		3	Quite a bit	19	35	387	35	603	35	5,517	36							
		4	Very much	9	16	257	23	453	26	3,497	23							
			Total	55	100	1,102	100	1,721	100	15,139	100							
c. Thinking critically and analytically	pgthink	1	Very little	2	4	41	4	56	3	399	3	3.3	3.3	-0.01	3.3	-0.07	3.4	-0.15
		2	Some	7	13	163	15	232	13	1,675	11							
		3	Quite a bit	21	38	364	33	551	32	4,980	33							
		4	Very much	25	45	534	48	884	51	8,115	53							
			Total	55	100	1,102	100	1,723	100	15,169	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	0	0	27	2	55	3	327	2	3.4	3.4	.09	3.4	.10	3.4	.02
		2	Some	5	9	135	12	202	12	1,585	10							
		3	Quite a bit	21	38	348	32	543	31	4,634	31							
		4	Very much	29	53	593	54	925	54	8,621	57							
			Total	55	100	1,103	100	1,725	100	15,167	100							

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	2	4	98	9	155	9	1,159	8	3.3	2.9 **	.39	.39	2.9 *	.35	3.0 *	.29
		2	Some	8	15	281	25	382	22	3,218	21								
		3	Quite a bit	18	33	361	33	601	35	5,214	34								
		4	Very much	27	49	362	33	585	34	5,587	37								
		Total		55	100	1,102	100	1,723	100	15,178	100								
f. Working effectively with others	pgothers	1	Very little	3	5	65	6	90	5	675	4	3.1	3.0	.14	.14	3.0	.05	3.1	.00
		2	Some	8	15	269	24	367	21	2,960	20								
		3	Quite a bit	25	45	406	37	638	37	5,887	39								
		4	Very much	19	35	360	33	631	37	5,633	37								
		Total		55	100	1,100	100	1,726	100	15,155	100								
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	6	11	222	20	278	16	2,450	16	2.5	2.5	.02	.02	2.6	-.13	2.6	-.10
		2	Some	24	44	340	31	497	29	4,528	30								
		3	Quite a bit	16	29	320	29	509	29	4,718	31								
		4	Very much	9	16	221	20	442	26	3,481	23								
		Total		55	100	1,103	100	1,726	100	15,177	100								
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	12	22	244	22	328	19	2,976	20	2.2	2.4	-.17	-.17	2.5 *	-.28	2.5	-.23
		2	Some	24	44	369	33	545	32	5,125	34								
		3	Quite a bit	14	25	303	27	509	30	4,269	28								
		4	Very much	5	9	186	17	339	20	2,782	18								
		Total		55	100	1,102	100	1,721	100	15,152	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	3	5	84	8	151	9	1,103	7	3.1	3.0	.19	.19	3.0	.17	3.0	.14
		2	Some	9	16	265	24	366	21	3,209	21								
		3	Quite a bit	20	36	360	33	572	33	5,215	34								
		4	Very much	23	42	393	36	633	37	5,646	37								
		Total		55	100	1,102	100	1,722	100	15,173	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	11	20	275	25	403	23	3,521	23	2.3	2.3	.02	.02	2.4	-.03	2.3	.00
		2	Some	22	40	375	34	586	34	5,444	36								
		3	Quite a bit	15	27	281	26	450	26	3,900	26								
		4	Very much	7	13	167	15	281	16	2,249	15								
		Total		55	100	1,098	100	1,720	100	15,114	100								

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

Frequencies and Statistical Comparisons: Engineering California State University-Chico

Seniors^a in Engineering

				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	Effect size ⁿ	Mean
18. How would you evaluate your entire educational experience at this institution?																		
	evalexp	1	Poor	1	2	48	4	77	4	518	3	3.1	3.0	.17	3.1	.07	3.2	-.04
		2	Fair	9	16	200	18	277	16	2,094	14							
		3	Good	27	49	572	52	820	47	7,084	47							
		4	Excellent	18	33	288	26	554	32	5,531	36							
			Total	55	100	1,108	100	1,728	100	15,227	100							
19. If you could start over again, would you go to the same institution you are now attending?																		
	sameinst	1	Definitely no	3	5	79	7	135	8	762	5	3.2	3.0	.19	3.0	.16	3.2	.01
		2	Probably no	5	9	190	17	267	15	2,054	13							
		3	Probably yes	27	49	490	44	756	44	6,434	42							
		4	Definitely yes	20	36	349	31	574	33	5,994	39							
			Total	55	100	1,108	100	1,732	100	15,244	100							

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

Respondent Profile: Engineering California State University-Chico

Engineering

			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	%	
20a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One									54	98	1,010	91	1,584	91	13,933	91	
		More than one										1	2	100	9	152	9	1,350	9
		Total										55	100	1,110	100	1,736	100	15,283	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									0	0	0	0	0	0	0	0	
		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										55	100	1,110	100	1,736	100	15,283	100
		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										55	100	1,110	100	1,736	100	15,283	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	9	9	11	7	123	9	
		Biological Sci., Agriculture, & Natural Resources									0	0	2	2	8	5	49	4	
		Physical Sci., Mathematics, & Computer Science									0	0	27	28	45	30	343	26	
		Social Sciences									0	0	7	7	5	3	68	5	
		Business									0	0	4	4	13	9	116	9	
		Communications, Media, & Public Relations									0	0	0	0	0	0	5	0	
		Education									0	0	0	0	1	1	11	1	
		Engineering										1	100	38	39	44	30	505	38
		Health Professions										0	0	3	3	2	1	23	2
		Social Service Professions										0	0	2	2	6	4	16	1
		All Other										0	0	4	4	10	7	50	4
		Undecided, Undeclared										0	0	1	1	3	2	22	2
		Total										1	100	97	100	148	100	1,331	100

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

Respondent Profile: Engineering California State University-Chico

Engineering

			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	57	0
		Sophomore									0	0	18	2	28	2	293	2
		Junior									11	20	158	14	256	15	2,298	15
		Senior									40	73	906	82	1,411	81	12,315	81
		Unclassified									4	7	22	2	31	2	257	2
		Total										55	100	1,108	100	1,732	100	15,220
22. Thinking about this current academic term, are you a full-time student?	fulltime	No									5	9	208	19	348	20	2,283	15
		Yes									49	91	894	81	1,375	80	12,842	85
		Total									54	100	1,102	100	1,723	100	15,125	100
23a. How many courses are you taking for credit this current academic term?	coursenum	0									3	5	19	2	27	2	323	2
		1									1	2	26	2	54	3	366	2
		2									0	0	69	6	126	7	716	5
		3									7	13	131	12	172	10	1,290	8
		4									24	44	294	27	420	24	4,105	27
		5									11	20	319	29	480	28	4,889	32
		6									3	5	122	11	236	14	2,091	14
		7 or more									6	11	124	11	215	12	1,430	9
Total										55	100	1,104	100	1,730	100	15,210	100	
b. Of these, how many are entirely online?	onlinenum	0									52	96	945	86	1,403	81	12,822	85
		1									2	4	117	11	212	12	1,635	11
		2									0	0	23	2	55	3	392	3
		3									0	0	11	1	26	2	153	1
		4									0	0	2	0	13	1	53	0
		5									0	0	0	0	3	0	30	0
		6									0	0	1	0	5	0	23	0
		7 or more									0	0	0	0	6	0	29	0
Total										54	100	1,099	100	1,723	100	15,137	100	
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum)	onlinecrscol	No courses taken online									52	96	945	86	1,403	81	12,822	85
		Some courses taken online									2	4	152	14	268	16	2,020	13
		All courses taken online									0	0	2	0	52	3	295	2
		Total									54	100	1,099	100	1,723	100	15,137	100

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

Respondent Profile: Engineering California State University-Chico

Engineering

			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									0	0	6	1	6	0	68	0
		C									3	5	43	4	52	3	421	3
		C+									7	13	87	8	111	6	884	6
		B-									6	11	121	11	155	9	1,377	9
		B									19	35	264	24	405	23	3,254	21
		B+									9	16	208	19	310	18	2,809	18
		A-									5	9	165	15	301	17	2,669	18
		A									6	11	210	19	389	22	3,713	24
		Total								55	100	1,104	100	1,729	100	15,195	100	
25. Did you begin college at this institution or elsewhere?	begincol	Started here									19	35	500	45	918	53	9,736	64
		Started elsewhere									35	65	604	55	809	47	5,452	36
		Total									54	100	1,104	100	1,727	100	15,188	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	6	75	7	147	9	877	6
		Community or junior college									39	72	591	54	682	40	5,179	34
		4-year college or university other than this one									10	19	234	21	464	27	3,305	22
		None									11	20	361	33	696	40	7,537	50
		Other									2	4	43	4	61	4	511	3
27. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree									2	4	50	5	94	5	538	4
		Bachelor's degree (B.A., B.S., etc.)									22	41	442	40	635	37	5,450	36
		Master's degree (M.A., M.S., etc.)									22	41	480	43	771	45	6,912	46
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)									8	15	132	12	225	13	2,277	15
		Total									54	100	1,104	100	1,725	100	15,177	100

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

Respondent Profile: Engineering California State University-Chico

Engineering

			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	%
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									4	7	99	9	98	6	584	4
		High school diploma or G.E.D.									6	11	188	17	291	17	2,035	13
		Attended college, but did not complete degree									9	17	120	11	192	11	1,288	8
		Associate's degree (A.A., A.S., etc.)									8	15	100	9	184	11	1,423	9
		Bachelor's degree (B.A., B.S., etc.)									14	26	370	34	550	32	5,219	34
		Master's degree (M.A., M.S., etc.)									12	22	156	14	319	19	3,351	22
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)									1	2	70	6	89	5	1,271	8
		Total									54	100	1,103	100	1,723	100	15,171	100
First-generation status (No parent holds a bachelor's degree)	firstgen (Recoded from parented)	Not first-generation									27	50	596	54	958	56	9,841	65
		First-generation									27	50	507	46	765	44	5,330	35
		Total									54	100	1,103	100	1,723	100	15,171	100
29. What is your gender identity?	genderid	Man									41	76	810	73	1,291	75	11,032	73
		Woman									8	15	268	24	371	22	3,828	25
		Another gender identity									2	4	6	1	12	1	79	1
		I prefer not to respond									3	6	20	2	47	3	223	1
		Total									54	100	1,104	100	1,721	100	15,162	100
30. Enter your year of birth (e.g., 1994):	agecat (Recoded from the information entered in birthyear)	19 or younger									0	0	7	1	8	0	102	1
		20-23									24	44	602	55	995	58	10,643	71
		24-29									20	37	305	28	413	24	2,689	18
		30-39									8	15	146	13	200	12	1,190	8
		40-55									2	4	35	3	91	5	409	3
		Over 55									0	0	0	0	8	0	36	0
Total									54	100	1,095	100	1,715	100	15,069	100		
31a. Are you an international student?	internat	No									48	89	1,049	96	1,605	94	14,196	94
		Yes									6	11	49	4	107	6	880	6
		Total									54	100	1,098	100	1,712	100	15,076	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									1	20	0	0	7	8	69	8
		Asia									0	0	19	41	27	29	349	41
		Canada									0	0	1	2	1	1	20	2
		Europe									0	0	2	4	12	13	62	7
		Latin America and Caribbean									0	0	5	11	15	16	140	17
		Middle East and North Africa									4	80	18	39	30	33	201	24
		Oceania									0	0	1	2	0	0	2	0
		Unknown region/uncoded									0	0	0	0	0	0	0	0
Total									5	100	46	100	92	100	843	100		

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

Respondent Profile: Engineering California State University-Chico

Engineering

			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									4	7	29	3	22	1	265	2
	re_asian	Asian									1	2	252	23	148	9	1,594	11
	re_black	Black or African American									5	9	33	3	99	6	838	6
	re_latino	Hispanic or Latino									4	7	183	17	185	11	1,437	9
	re_pacific	Native Hawaiian or Other Pacific Islander									0	0	46	4	12	1	131	1
	re_white	White									34	63	596	54	1,184	69	10,962	72
	re_other	Other									7	13	50	5	50	3	380	3
	re_pnr	I prefer not to respond									5	9	70	6	114	7	695	5
	Racial or ethnic identification	re_all	American Indian or Alaska Native									1	2	7	1	6	0	63
(Recoded from re_amind through re_pnr where each student is represented only once)		Asian									0	0	185	17	126	7	1,273	8
		Black or African American									3	6	17	2	86	5	687	5
		Hispanic or Latino									4	7	144	13	144	8	1,052	7
		Native Hawaiian/Other Pac. Islander									0	0	15	1	4	0	34	0
		White									30	56	496	45	1,114	65	10,131	67
		Other									6	11	37	3	39	2	258	2
		Multiracial									5	9	130	12	85	5	951	6
		I prefer not to respond									5	9	70	6	114	7	695	5
	Total									54	100	1,101	100	1,718	100	15,144	100	
33. Are you a member of a social fraternity or sorority?	greek	No									53	98	1,022	93	1,582	92	13,038	86
		Yes									1	2	78	7	136	8	2,062	14
		Total									54	100	1,100	100	1,718	100	15,100	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)									3	6	79	7	209	12	2,001	13
		Fraternity or sorority house									0	0	10	1	19	1	498	3
		Residence (house, apartment, etc.) within walking distance to the institution									35	65	261	24	397	23	4,974	33
		Residence (house, apartment, etc.) farther than walking distance to the institution									16	30	716	65	1,024	60	7,296	48
		None of the above									0	0	34	3	68	4	370	2
	Total									54	100	1,100	100	1,717	100	15,139	100	
35. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No									49	91	1,071	98	1,626	95	14,413	96
		Yes									5	9	23	2	84	5	646	4
		Total									54	100	1,094	100	1,710	100	15,059	100

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

Respondent Profile: Engineering California State University-Chico

Engineering

			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									50	94	1,010	92	1,557	91	14,172	94	
		Yes									3	6	87	8	157	9	910	6	
		Total									53	100	1,097	100	1,714	100	15,082	100	
37a. Have you been diagnosed with any disability or impairment?	disability	No									46	85	969	88	1,493	87	13,351	88	
		Yes									4	7	94	9	152	9	1,318	9	
		I prefer not to respond									4	7	37	3	77	4	467	3	
		Total									54	100	1,100	100	1,722	100	15,136	100	
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense	A sensory impairment (vision or hearing)									2	50	24	26	31	21	223	17	
	dis_mobility	A mobility impairment									0	0	10	11	20	13	102	8	
	dis_learning	A learning disability (e.g., ADHD, dyslexia)									0	0	40	43	61	41	679	52	
	dis_mental	A mental health disorder									1	25	14	15	27	18	321	25	
	dis_other	A disability or impairment not listed above									1	25	23	24	47	32	261	20	
Disability or impairment	disability_all	A sensory impairment									2	4	16	1	19	1	159	1	
	(Recoded from disability and dis_sense through dis_other where each student is represented only once)	A mobility impairment									0	0	6	1	12	1	50	0	
		A learning disability									0	0	31	3	44	3	528	3	
		A mental health disorder									1	2	9	1	15	1	177	1	
		A disability or impairment not listed									1	2	17	2	35	2	173	1	
		More than one disability or impairment									0	0	15	1	24	1	222	1	
		No disability or impairment									46	85	969	88	1,493	87	13,351	88	
	Prefer not to respond									4	7	37	3	77	4	467	3		
	Total									54	100	1,100	100	1,719	100	15,127	100		
38. Which of the following best describes your sexual orientation? (Question administered per institution request)	sexorient14	Heterosexual									--	--	545	88	495	87	6,543	89	
		Gay									--	--	8	1	4	1	85	1	
		Lesbian										--	--	4	1	7	1	46	1
		Bisexual										--	--	18	3	10	2	160	2
		Another sexual orientation										--	--	4	1	5	1	59	1
		Questioning or unsure										--	--	3	0	5	1	59	1
		I prefer not to respond										--	--	38	6	42	7	430	6
		Total										--	--	620	100	568	100	7,382	100

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

Respondent Profile: Engineering California State University-Chico

Engineering

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	%
Institution-reported information																		
(Variables provided by your institution in your NSSE population file.)																		
Institution-reported sex	IRsex	Female									8	15	276	25	384	22	3,903	26
		Male									47	85	834	75	1,352	78	11,380	74
		Total									55	100	1,110	100	1,736	100	15,283	100
Institution-reported race or ethnicity	IRrace	American Indian or Alaska Native									1	2	12	1	16	1	85	1
		Asian									0	0	142	14	90	6	861	6
		Black or African American									2	4	15	2	88	6	646	4
		Hispanic or Latino									5	9	159	16	168	11	1,285	9
		Native Hawaiian/Other Pac. Islander									0	0	31	3	2	0	48	0
		White									28	51	461	46	1,025	65	9,832	68
		Other									0	0	0	0	0	0	1	0
		Foreign or nonresident alien									7	13	49	5	86	5	775	5
		Two or more races/ethnicities									4	7	77	8	34	2	403	3
		Unknown									8	15	46	5	65	4	525	4
Total									55	100	992	100	1,574	100	14,461	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									55	100	1,110	100	1,736	100	15,283	100
		Other									0	0	0	0	0	0	0	0
		Total									55	100	1,110	100	1,736	100	15,283	100
Institution-reported first-time first-year (FTFY) status	IRftfy	No									55	100	1,070	96	1,692	97	15,177	99
		Yes									0	0	40	4	44	3	106	1
		Total									55	100	1,110	100	1,736	100	15,283	100
Institution-reported enrollment status	IRenrollment	Not full-time									4	7	190	17	311	18	2,016	13
		Full-time									51	93	920	83	1,425	82	13,267	87
		Total									55	100	1,110	100	1,736	100	15,283	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.