

San Jose State University

About This Report

About Your Engagement Indicators Report

Engagement Indicators (EIs) provide a useful summary of the detailed information contained in your students' NSSE responses. By combining responses to related NSSE questions, each EI offers valuable information about a distinct aspect of student engagement. Ten indicators, based on three to eight survey questions each (a total of 47 survey questions), are organized into four broad themes as shown at right.

Theme	Engagement Indicator
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

Report Sections

Overview (p. 3)

Displays how average EI scores for your students compare with those of students at your comparoup institutions.

Theme Reports (pp. 4-13)

Detailed views of EI scores within the four themes for your students and those at comparison grinstitutions. Three views offer varied insights into your EI scores:

Mean Comparisons

Straightforward comparisons of average scores between your students and those at compar group institutions, with tests of significance and effect sizes (see below).

Score Distributions

Box-and-whisker charts show the variation in scores without institution and comparison group

Performance on Indicator Items

Responses to each item in a given EI are summarized for your institution and comparison gr

Comparisons with High-Performing Institutions (p. 15) Comparisons of your students' average scores on each EI with those of students at institutions whose average scores were in the top 50% and top 10% of 2016 and 2017 participating institutions.

Detailed Statistics (pp. 16-19 Detailed information about EI score means, distributions, and tests of statistical significance.

Interpreting Comparisons

Mean comparisons report both statistical significance and effect size. Effect size indicates the practical importance of an officerence. 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 (p. 3).

Els vary more among students within an institution than between institutions, like many experiences and outcomes in higher education. As a result, focusing attention on average scores alone amounts to examining the tip of the iceberg. It's equally to understand how student engagement varies within your institution. Score distributions indicate how El scores vary among your students and those in your comparison groups. The Report Builder—Institution Version and your Major Field (Report December 1) offer valuable perspectives on internal variation and help you investigate your students' engagement in depth.

How Engagement Indicators are Computed

Each EI is scored on a 60-point scale. To produce an indicator score, the response set for each item is converted to a 60 (e.g., Never = 0; Sometimes = 20; Often = 40; Very often = 60), and the rescaled items are averaged. Thus a score of zero means a student responded at the bottom of the scale for every item in the EI, while a score of 60 indicates responses at the top of the scale on every item.

For more information on Els and their psychometric properties, refer to the NSSE websitediana.edu

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

Academic Challenge: First-year students

Mean Comparisons

Engagement Indicator

Academic Challenge San Jose State University

Academic Challenge: Seniors

Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning, Reflective & Integrative Learning, Learning Strategies* and *Quantitative Reasoning*. Below and on the next page are three views of your results alongside those of your comparison groups.

Mean Comparisons			Yo	our seniors con	npared with		
	SJSU	High Grad	Rate CSUs Effect	All	CSUs Effect	Carne	gie Class Effect
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Higher-Order Learning	39.9	39.8	.01	40.1	02	39.9	.00
Reflective & Integrative Learning	37.6	38.0	03	38.5 **	06	38.2 *	04
Learning Strategies	37.8	37.7	.01	38.3	04	38.5 *	05
Quantitative Reasoning	30.5	30.2	.02	29.9	.04	29.7*	.05

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled st deviation; Symbols on the Overview page are based on effect size: $\frac{1}{2} (1 + \frac{1}{2}) (1 + \frac{1$

Score Distributions

Higher-Order Learning

Reflective & Integrative Learning

Learning Strategies

Quantitative Reasoning

Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Learning with Peers San Jose State University

Learning with Peers: First-year students

Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare still deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: Collaborative Learning and Discussions with Diverse Others. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons			Your fir	st-year studen	ts compared v	vith		
	SJSU	High Gra	ad Rate CSUs	All	CSUs	Carneg	ie Class	
			Effect		Effect		Effect	
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size	
Collaborative Learning	33.9	33.3	.04	32.9*	.07	32.3 ***	.12	
Discussions with Diverse Others	40.0	40.1	.00	39.3	.05	39.8	.02	

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled st deviation; Symbols on the Overview page are based on effect sizebæfdre rounding; $\hat{p} < .05$, **p < .01, ***p < .01 (2-tailed).

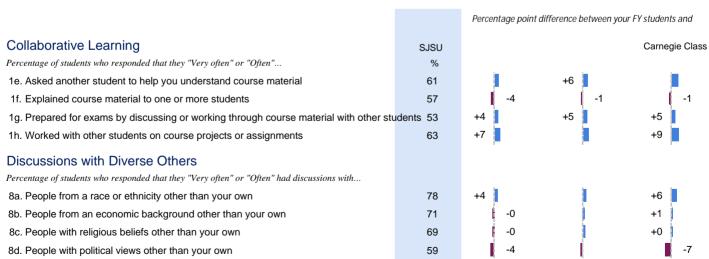
Score Distributions

Collaborative Learning

Discussions with Diverse Others

Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) per scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Performance on Indicator Items



Notes: Refer to your Frequencies and Statistical Comparisons eport for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in y Institutional Report and available on the NSSE website.

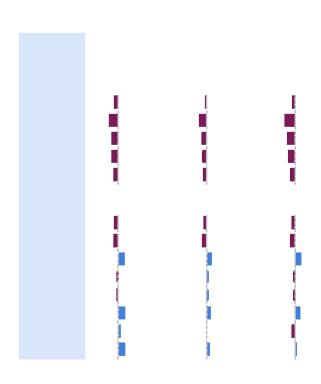
a. Percentage point difference = Institution percenta@emparison group percentage. Because results are rounded to whole numbers, differences of less than 1 point may or may not display a bar. Small, but nonzero differences may be represented as +0 or -0.

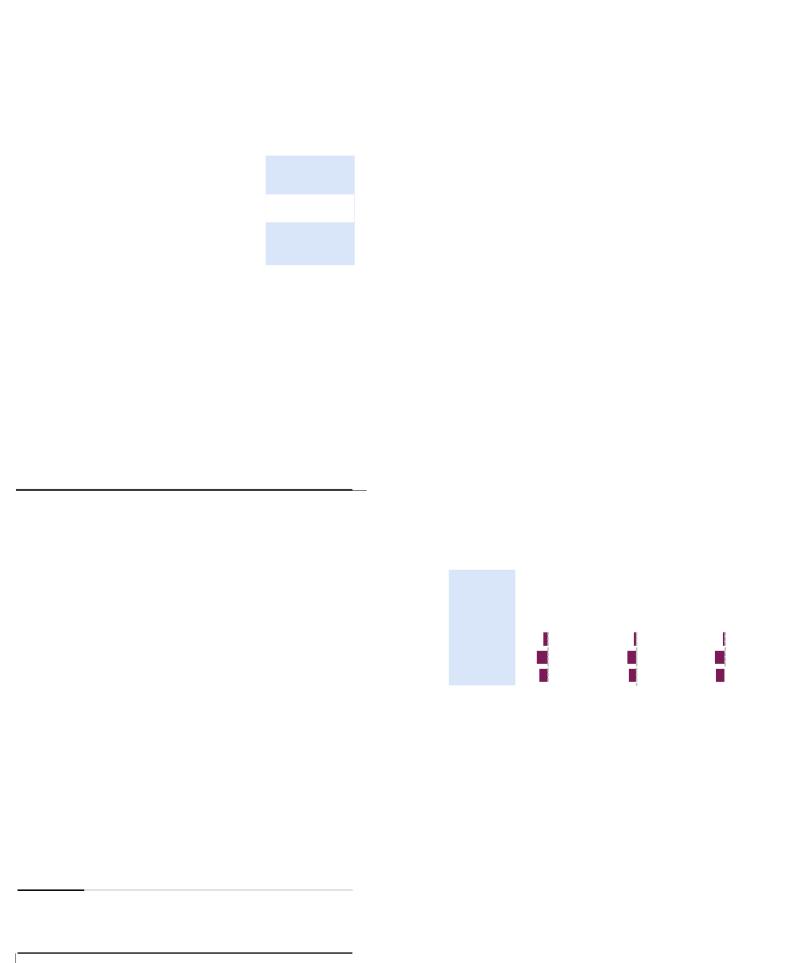
Campus Environment: First-year students

Mean Comparisons

Engagement Indicator

Quality of Interactions





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Comparisons with Top 50% and Top 10% Institutions

Detailed Statistics: First-year students

	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												
SJSU(N = 1110)	38.1	12.9	.39	20	30	40	45	60				
High Grad Rate CSUs	37.0	13.2	.14	15	30	40	45	60	10,095	1.1	.011	.081
All CSUs	37.7	13.2	.09	15	30	40	45	60	23,419	.4	.367	.028
Carnegie Class	37.5	13.3	.07	15	30	40	45	60	36,097	.6		

Detailed Statistics San Jose State University

Detailed Statistics: First-year students

	Mean statistics			Percentile 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												
SJSU(N = 1118)	18.8	13.9	.42	0	10	15	25	40				
High Grad Rate CSUs	16.8	13.7	.14	0	5	15	25	45	10,234	2.0	.000	.146
All CSUs	18.2	14.2	.09	0	5	15	25	45	23,746	.6	.184	.041
Carnegie Class	19.3	14.2	.08	0	10	15	25	45	36,675	5	.242	036
Top 50%	23.8	14.7	.04	0	15	20	35	55	1,136	-5.0	.000	338
Top 10%	27.2	15.6	.10	5	15	25	40	60	1,253	-8.4	.000	543

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Detailed Statistics: Seniors

									Deg. of	Mean		Effect
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g
Academic Challenge												
Higher-Order Learning												
SJSU(N = 2687)	39.9	13.9	.27	15	30	40	50	60				
High Grad Rate CSUs	39.8	13.7	.12	20	30	40	50	60	15,945	.1	.708	.008
All CSUs	40.1	13.8	.08	20	30	40	50	60	36,021	2	.445	015
Carnegie Class	39.9	13.8	.06	20	30	40	50	60	49,247	.0	.907	002
Top 50%	41.8	13.5	.03	20	35	40	55	60	198,834	-1.9	.000	142
Top 10%	43.3	13.4	.06	20	35	40	55	60	60,674	-3.3	.000	248
Reflective & Integrative Lear	ning											
SJSU(N = 2735)	37.6	12.4	.24	17	29	37	46	60				
High Grad Rate CSUs	38.0	12.5	.11	17	29	37	46	60	16,499	3	.216	026
All CSUs	38.5	12.5	.07	17	29	37	49	60	37,170	8	.001	065
Carnegie Class	38.2	12.5	.06	17	29	37	49	60	50,845	6	.023	045
Top 50%	40.0	12.3	.03	20	31	40	49	60	204,864	-2.4	.000	191
Top 10%	42.0	12.2	.06	20	34	43	51	60	44,796	-4.3	.000	355
Learning Strategies												
SJSU(N = 2482)	37.8	14.0	.28	20	27	40	47	60				
High Grad Rate CSUs	37.7	14.5	.13	13	27	40	47	60	3,673	.1	.793	.006
All CSUs	38.3	14.3	.08	13	27	40	47	60	2,931	5	.080	036

Detailed Statistics San Jose State University

Detailed Statistics: Seniors

	Mean statistics				Percentile 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													
SJSU(N = 2693)	21.3	15.4	.30	0	10	20	30	55					
High Grad Rate CSUs	22.2	15.6	.13	0	10	20	30	55	16,136	9	.006	059	
All CSUs	22.5	15.5	.08	0	10	20	30	55	36,475	-1.2	.000		