NSSE
national survey of student engagement

NSSE 2023
Engagement Indicators

California State University, Sacramento

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. The specific items within each EI are listed below, starting on page 5.

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 comparison group institutions.

Theme Reports (pp. 4-13) — Detailed views of EI scores within the four themes for your students and those at comparison group institutions. Three views offer varied insights into your EI scores:

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

Score Distributions
Box-and-whisker charts show the variation in scores *within* your institution and comparison groups.

Performance on Indicator Items
Responses to each item in a given EI are summarized for your institution and comparison groups.

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 all current- and prior-year 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 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, 2018). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview (p. 3).

EIs 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 important to understand how student engagement varies within your institution. Score distributions indicate how EI scores vary among your students and those in your comparison groups. Your NSSE Tableau dashboards and Report Builder (released in the fall) 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-point scale (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 EIs and their psychometric properties, refer to the NSSE website: **nsse.indiana.edu**

Rocconi, L.M., & Gonyea, R.M. (2018). Contextualizing effect sizes in the National Survey of Student Engagement: An empirical analysis. *Research & Practice in Assessment, 13* (Summer/Fall), pp. 22-38.

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 broad themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores for your students with those in your comparison groups. 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.

Note: It is important to interpret the direction of differences relative to your institutional context. You may not see all of these symbols in your report.

First-Year Students

Theme	Engagement Indicator	Your first-year students compared with Far West Public	Your first-year students compared with Carnegie Class	Your first-year students compared with NSSE 2022 & 2023
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

| Theme	Engagement Indicator	Your seniors compared with Far West Public	Your seniors compared with Carnegie Class	Your seniors compared with NSSE 2022 & 2023
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	△	△	△

Academic Challenge: First-year students

Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote 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

| | Sacramento State | Your first-year students compared with | | | | | |
| | | Far West Public | | Carnegie Class | | NSSE 2022 & 2023 | |
Engagement Indicator	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	37.1	37.7	-.05	38.0	-.06	38.3 *	-.09
Reflective & Integrative Learning	36.0	35.7	.02	35.3	.06	35.8	.02
Learning Strategies	37.4	36.8	.05	38.7 *	-.09	38.2	-.06
Quantitative Reasoning	29.1	29.5	-.03	29.0	.01	29.4	-.02

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; *p < .05, **p < .01, ***p < .001 (2-tailed).

Score Distributions
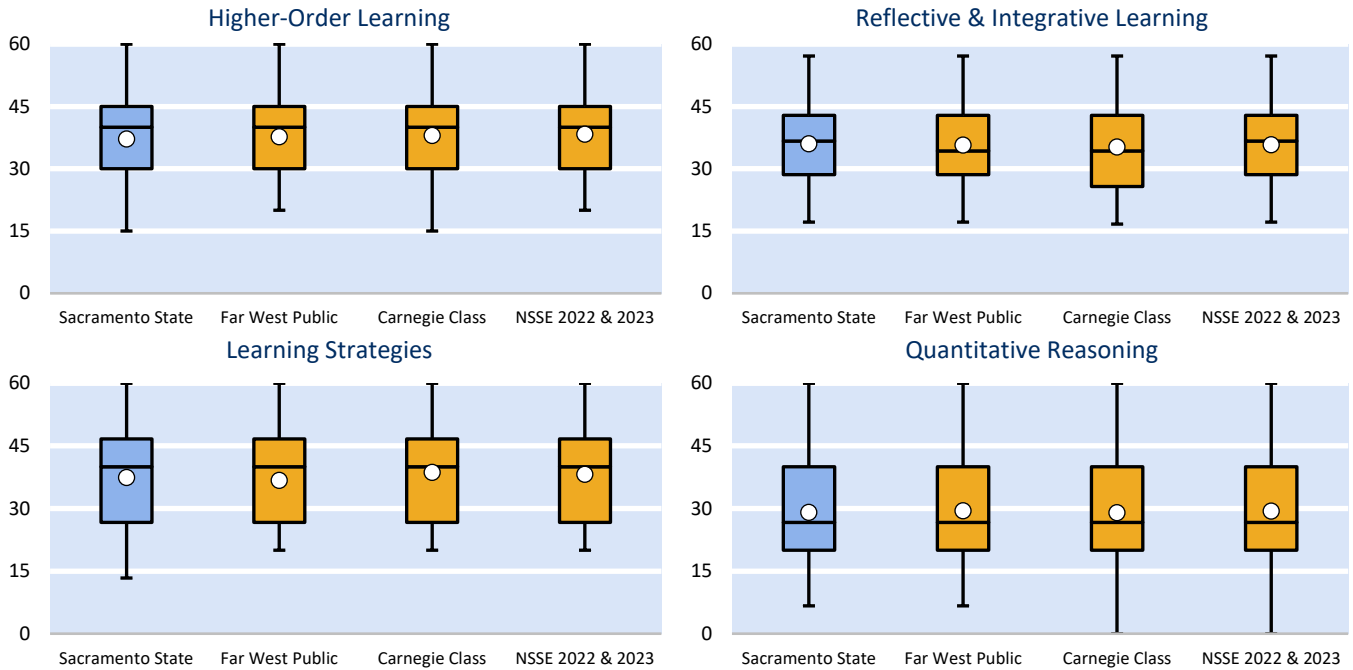
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Academic Challenge: First-year students (continued)

Performance on Indicator Items

The table below displays how your students responded to each EI item, and the difference, in percentage points, between your students and those of your comparison group. Blue bars indicate how much higher your institution's percentage is from that of the comparison group. Dark red bars indicate how much lower your institution's percentage is from that of the comparison group.

	Sacramento State	Percentage point difference[a] between your FY students and		
Higher-Order Learning		**Far West Public**	**Carnegie Class**	**NSSE 2022 & 2023**
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized…	%			
4b. Applying facts, theories, or methods to practical problems or new situations	63	-5	-6	-7
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	67	-1	-1	-3
4d. Evaluating a point of view, decision, or information source	70	-0	-0	+0
4e. Forming a new idea or understanding from various pieces of information	70	-0	-1	-1
Reflective & Integrative Learning				
Percentage of students who responded that they "Very often" or "Often"…				
2a. Combined ideas from different courses when completing assignments	54	+1	+4	+1
2b. Connected your learning to societal problems or issues	49	-5	-3	-4
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	54	-3	+2	-0
2d. Examined the strengths and weaknesses of your own views on a topic or issue	65	+0	+1	-0
2e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	73	+2	+3	+2
2f. Learned something that changed the way you understand an issue or concept	70	+3	+4	+3
2g. Connected ideas from your courses to your prior experiences and knowledge	76	-1	-1	-2
Learning Strategies				
Percentage of students who responded that they "Very often" or "Often"…				
9a. Identified key information from reading assignments	71	-0	-2	-2
9b. Reviewed your notes after class	63	-0	-4	-3
9c. Summarized what you learned in class or from course materials	62	+2	-4	-3
Quantitative Reasoning				
Percentage of students who responded that they "Very often" or "Often"…				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	50	-4	-3	-4
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	42	-2	-1	-2
6c. Evaluated what others have concluded from numerical information	44	+1	+3	+1

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile available on the NSSE website.

a. Percentage point difference = Institution percentage − Comparison 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.

Academic Challenge: Seniors

Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote 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

| | Sacramento State | *Your seniors compared with* | | | | | |
| | | Far West Public | | Carnegie Class | | NSSE 2022 & 2023 | |
Engagement Indicator	Mean	Mean	*Effect size*	Mean	*Effect size*	Mean	*Effect size*
Higher-Order Learning	41.1	40.6	.04	40.7	.03	40.7	.03
Reflective & Integrative Learning	39.1	39.0	.01	38.5 *	.05	38.7	.03
Learning Strategies	39.6	39.3	.02	39.7	-.01	39.2	.03
Quantitative Reasoning	31.7	31.5	.01	30.9	.05	31.4	.02

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; *p < .05, **p < .01, ***p < .001 (2-tailed).

Score Distributions
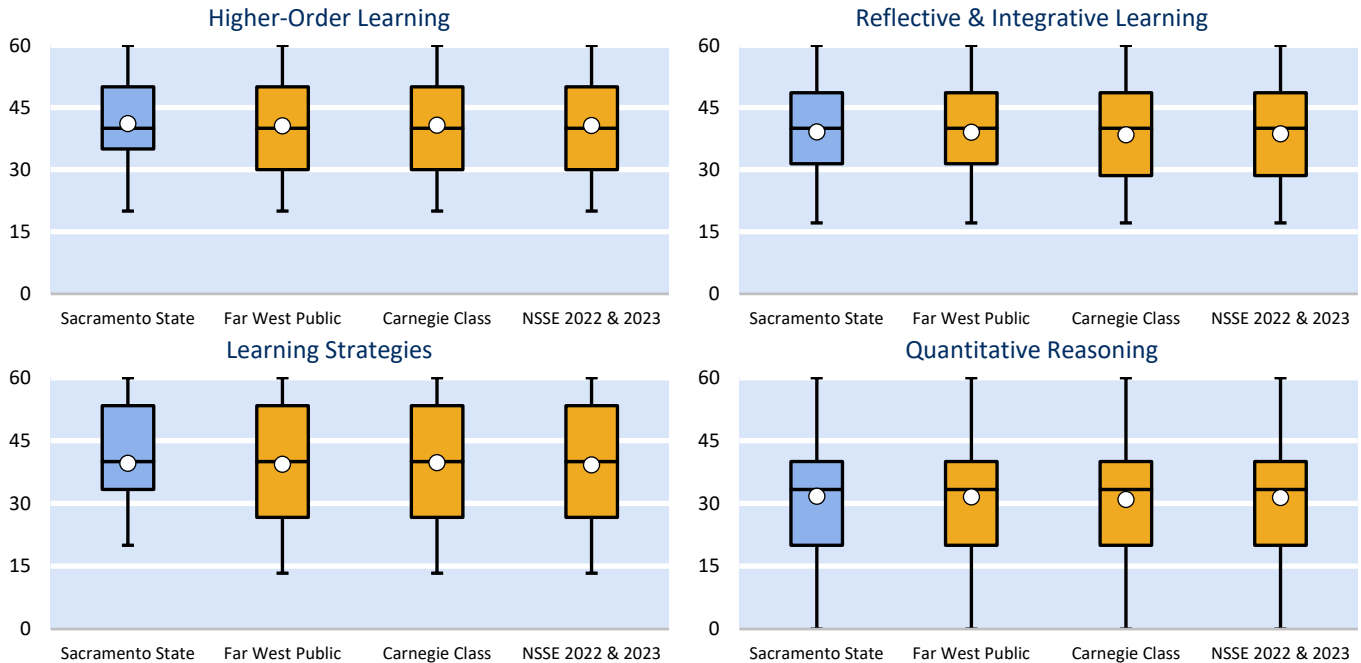
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Academic Challenge: Seniors (continued)

Performance on Indicator Items

The table below displays how your students responded to each EI item, and the difference, in percentage points, between your students and those of your comparison group. Blue bars indicate how much higher your institution's percentage is from that of the comparison group. Dark red bars indicate how much lower your institution's percentage is from that of the comparison group.

	Sacramento State	Percentage point difference[a] between your seniors and		
Higher-Order Learning		Far West Public	Carnegie Class	NSSE 2022 & 2023
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized…	%			
4b. Applying facts, theories, or methods to practical problems or new situations	77	+2	+0	-0
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	77	+2	+2	+2
4d. Evaluating a point of view, decision, or information source	75	+3	+2	+3
4e. Forming a new idea or understanding from various pieces of information	77	+2	+2	+3
Reflective & Integrative Learning				
Percentage of students who responded that they "Very often" or "Often"…				
2a. Combined ideas from different courses when completing assignments	68	-2	+1	-0
2b. Connected your learning to societal problems or issues	63	-0	+1	+1
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	60	+3	+5	+4
2d. Examined the strengths and weaknesses of your own views on a topic or issue	67	-1	-0	-1
2e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	77	+3	+4	+4
2f. Learned something that changed the way you understand an issue or concept	74	+1	+3	+2
2g. Connected ideas from your courses to your prior experiences and knowledge	82	-1	-2	-2
Learning Strategies				
Percentage of students who responded that they "Very often" or "Often"…				
9a. Identified key information from reading assignments	79	+2	+2	+2
9b. Reviewed your notes after class	67	+1	+0	+2
9c. Summarized what you learned in class or from course materials	67	-0	-2	-1
Quantitative Reasoning				
Percentage of students who responded that they "Very often" or "Often"…				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	58	+0	+1	+0
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	51	+2	+2	+2
6c. Evaluated what others have concluded from numerical information	50	+0	+3	+1

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile available on the NSSE website.

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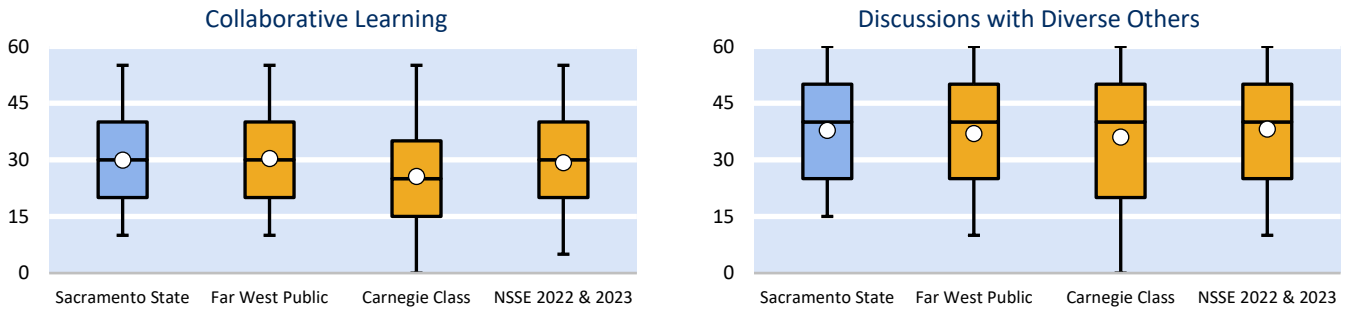
Learning with Peers: First-year students

Collaborating with others in mastering difficult material and interacting with peers from different backgrounds prepares students to 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

| | Sacramento State | Your first-year students compared with | | | | | |
| | | Far West Public | | Carnegie Class | | NSSE 2022 & 2023 | |
Engagement Indicator	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	29.9	30.3	-.03	25.5 ***	.27	29.2	.04
Discussions with Diverse Others	37.8	37.0	.05	36.0 *	.10	38.1	-.02

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; *p < .05, **p < .01, ***p < .001 (2-tailed).

Score Distributions

Collaborative Learning

Discussions with Diverse Others

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Performance on Indicator Items

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| | Sacramento State | Percentage point difference [a] between your FY students and | | |
Collaborative Learning		Far West Public	Carnegie Class	NSSE 2022 & 2023
Percentage of students who responded that they "Very often" or "Often"…	%			
1b. Asked another student to help you understand course material	48	-1	+11	+4
1c. Explained course material to one or more students	45	-3	+5	-3
1d. Prepared for exams by discussing or working through course material with other students	37	-4	+3	-4
1e. Worked with other students on course projects or assignments	55	+1	+12	+5
Discussions with Diverse Others				
Percentage of students who responded that they "Very often" or "Often" had discussions with…				
8a. People of races or ethnicities other than your own	74	+3	+11	+6
8b. People from economic backgrounds other than your own	68	-1	+4	-1
8c. People with religious beliefs other than your own	63	+2	+3	-1
8d. People with political views other than your own	52	+2	-4	-7

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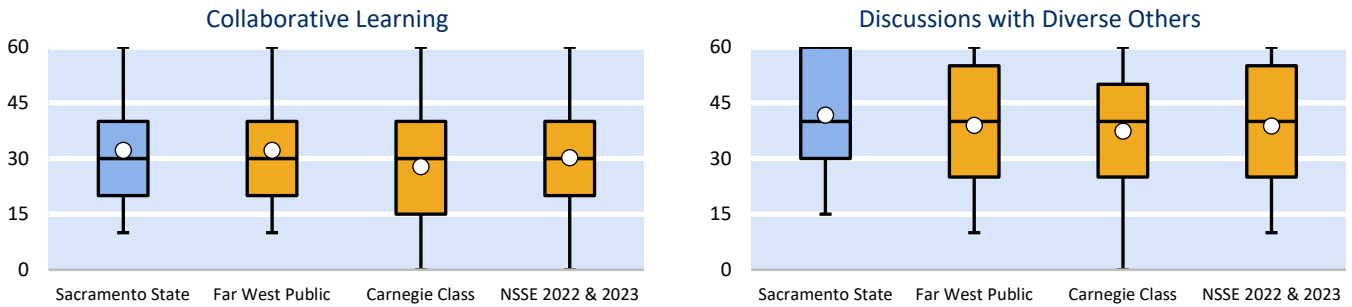
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Mean Comparisons

	Sacramento State	Your seniors compared with					
		Far West Public		Carnegie Class		NSSE 2022 & 2023	
Engagement Indicator	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	32.2	32.2	.00	27.8 ***	.26	30.2 ***	.12
Discussions with Diverse Others	41.7	38.9 ***	.18	37.4 ***	.25	38.8 ***	.18

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; *p < .05, **p < .01, ***p < .001 (2-tailed).

Score Distributions

Collaborative Learning | Discussions with Diverse Others

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Performance on Indicator Items

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	Sacramento State	Percentage point difference [a] between your seniors and		
Collaborative Learning		Far West Public	Carnegie Class	NSSE 2022 & 2023
Percentage of students who responded that they "Very often" or "Often"…	%			
1b. Asked another student to help you understand course material	44	-1	+7	+3
1c. Explained course material to one or more students	54	+1	+7	+2
1d. Prepared for exams by discussing or working through course material with other students	44	+2	+8	+4
1e. Worked with other students on course projects or assignments	62	-4	+9	+2
Discussions with Diverse Others				
Percentage of students who responded that they "Very often" or "Often" had discussions with…				
8a. People of races or ethnicities other than your own	81	+7	+14	+11
8b. People from economic backgrounds other than your own	76	+5	+9	+6
8c. People with religious beliefs other than your own	71	+6	+9	+6
8d. People with political views other than your own	60	+5	+1	-1

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NSSE 2023 Engagement Indicators
Experiences with Faculty
California State University, Sacramento

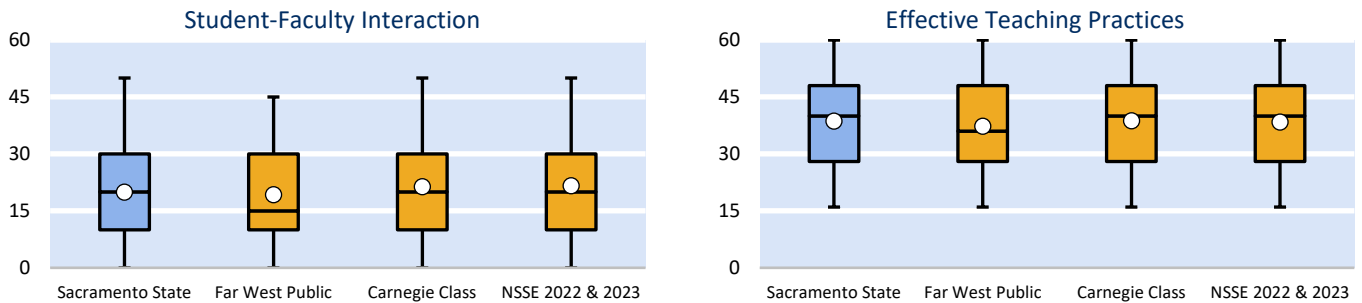## Experiences with Faculty: First-year students

Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course material and provide feedback in student-centered ways. Two Engagement Indicators investigate this theme: *Student-Faculty Interaction* and *Effective Teaching Practices.* Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

| | Sacramento State | Your first-year students compared with | | | | | |
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Engagement Indicator	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Student-Faculty Interaction	19.9	19.2	.05	21.3 *	-.10	21.6 **	-.11
Effective Teaching Practices	38.6	37.2 *	.10	38.7	-.01	38.4	.02

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; *p < .05, **p < .01, ***p < .001 (2-tailed).

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| | Sacramento State | Percentage point difference [a] between your FY students and | | |
Student-Faculty Interaction		Far West Public	Carnegie Class	NSSE 2022 & 2023
Percentage of students who responded that they "Very often" or "Often"…	%			
3a. Talked about career plans with a faculty member	34	+2	-4	-3
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	19	-1	-3	-4
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	23	-1	-4	-5
3d. Discussed your academic performance with a faculty member	27	+1	-6	-4
Effective Teaching Practices				
Percentage responding "Very much" or "Quite a bit" about how much instructors have…				
5a. Clearly explained course goals and requirements	76	+1	-1	-1
5b. Taught course sessions in an organized way	70	+1	-2	-3
5c. Used examples or illustrations to explain difficult points	71	-1	-1	-2
5d. Provided feedback on a draft or work in progress	72	+9	+6	+8
5e. Provided prompt and detailed feedback on tests or completed assignments	63	+7	+0	+3

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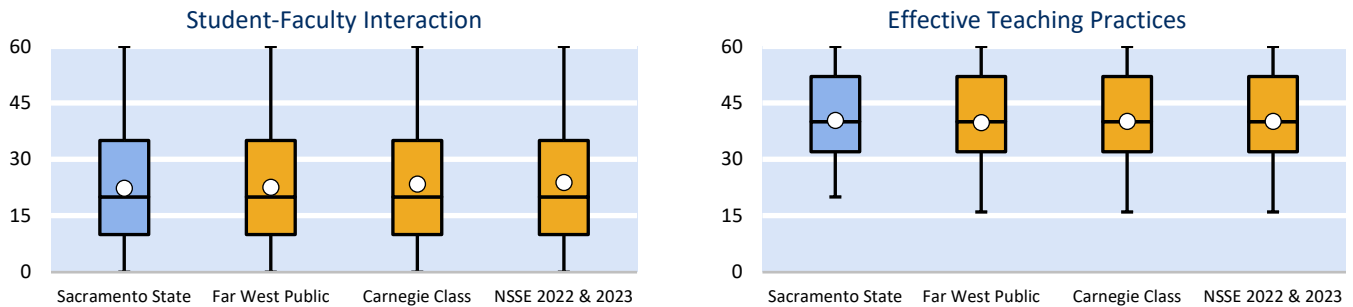
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Mean Comparisons

	Sacramento State	Your seniors compared with					
		Far West Public		Carnegie Class		NSSE 2022 & 2023	
Engagement Indicator	*Mean*	*Mean*	*Effect size*	*Mean*	*Effect size*	*Mean*	*Effect size*
Student-Faculty Interaction	22.3	22.5	-.01	23.4 **	-.07	23.8 ***	-.09
Effective Teaching Practices	40.3	39.7	.05	40.1	.02	40.0	.02

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3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	24	-2	-2	-4
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	29	-1	-2	-3
3d. Discussed your academic performance with a faculty member	31	+0	-4	-2
Effective Teaching Practices				
Percentage responding "Very much" or "Quite a bit" about how much instructors have…				
5a. Clearly explained course goals and requirements	82	+3	+3	+2
5b. Taught course sessions in an organized way	76	+1	+1	-1
5c. Used examples or illustrations to explain difficult points	78	+2	+3	+2
5d. Provided feedback on a draft or work in progress	66	+3	+2	+2
5e. Provided prompt and detailed feedback on tests or completed assignments	64	+2	-2	-1

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile available on the NSSE website.

a. Percentage point difference = Institution percentage – Comparison 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.

NSSE 2023 Engagement Indicators
Campus Environment
California State University, Sacramento

Campus Environment: First-year students

Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment.* Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

	Sacramento State	Your first-year students compared with					
		Far West Public		Carnegie Class		NSSE 2022 & 2023	
Engagement Indicator	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	42.8	41.5 *	.10	43.6	-.06	43.0	-.02
Supportive Environment	35.1	33.1 **	.15	33.8 *	.09	34.6	.04

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; *p < .05, **p < .01, ***p < .001 (2-tailed).

Score Distributions

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 scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Performance on Indicator Items

The table below displays how your students responded to each EI item, and the difference, in percentage points, between your students and those of your comparison group. Blue bars indicate how much higher your institution's percentage is from that of the comparison group. Dark red bars indicate how much lower your institution's percentage is from that of the comparison group.

	Sacramento State	Percentage point difference [a] between your FY students and		
Quality of Interactions		Far West Public	Carnegie Class	NSSE 2022 & 2023
Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...	%			
13a. Students	47	+0	-3	-4
13b. Academic advisors	52	+3	-5	-2
13c. Faculty	52	+6	-3	-0
13d. Student services staff (career services, student activities, housing, etc.)	50	+7	-0	+3
13e. Other administrative staff and offices (registrar, financial aid, etc.)	50	+8	-1	+3
Supportive Environment				
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...				
14b. Providing support to help students succeed academically	70	+3	-1	-1
14c. Using learning support services (tutoring services, writing center, etc.)	67	-2	-5	-6
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	65	+7	+7	+6
14e. Providing opportunities to be involved socially	66	+3	+1	-2
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	67	+4	+4	+3
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	51	+12	+10	+12
14h. Attending campus activities and events (performing arts, athletic events, etc.)	59	+3	+3	-3
14i. Attending events that address important social, economic, or political issues	45	+5	+2	-0

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile available on the NSSE website.

a. Percentage point difference = Institution percentage − Comparison 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.
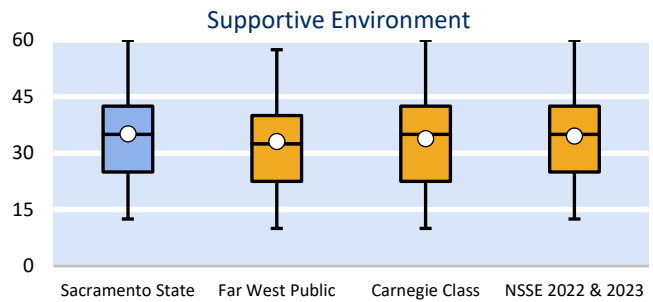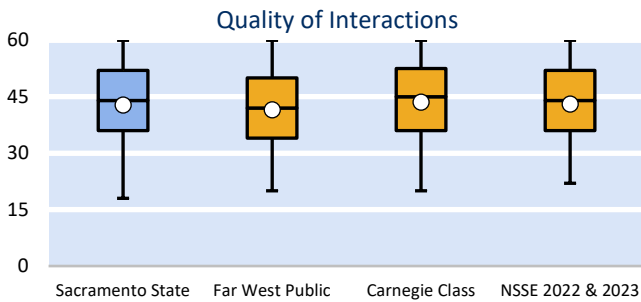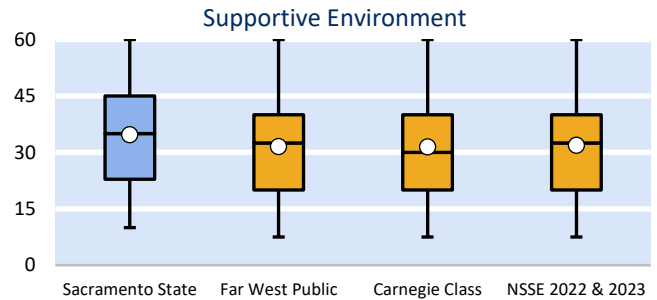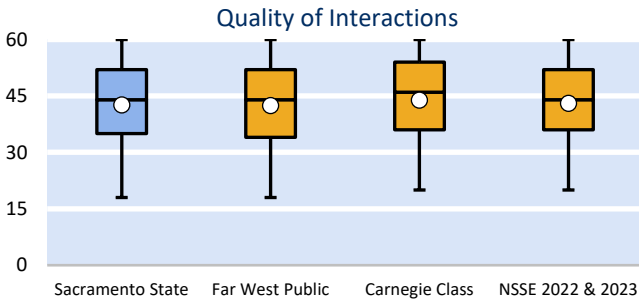
Campus Environment: Seniors

Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment.* Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	Sacramento State Mean	Far West Public Mean	Effect size	Carnegie Class Mean	Effect size	NSSE 2022 & 2023 Mean	Effect size
		Your seniors compared with					
Quality of Interactions	42.6	42.5	.01	43.9 ***	-.10	43.1	-.03
Supportive Environment	34.7	31.6 ***	.21	31.4 ***	.22	31.9 ***	.19

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; *p < .05, **p < .01, ***p < .001 (2-tailed).

Score Distributions

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 scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Performance on Indicator Items

The table below displays how your students responded to each EI item, and the difference, in percentage points, between your students and those of your comparison group. Blue bars indicate how much higher your institution's percentage is from that of the comparison group. Dark red bars indicate how much lower your institution's percentage is from that of the comparison group.

Quality of Interactions	Sacramento State %	Far West Public	Carnegie Class	NSSE 2022 & 2023
		Percentage point difference [a] between your seniors and		
Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with…				
13a. Students	57	-1	-2	-1
13b. Academic advisors	49	-1	-8	-4
13c. Faculty	55	-0	-5	-3
13d. Student services staff (career services, student activities, housing, etc.)	48	+2	-2	+2
13e. Other administrative staff and offices (registrar, financial aid, etc.)	47	+3	-3	+2
Supportive Environment				
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized…				
14b. Providing support to help students succeed academically	70	+4	+1	+2
14c. Using learning support services (tutoring services, writing center, etc.)	65	+4	+0	+1
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	65	+8	+12	+11
14e. Providing opportunities to be involved socially	65	+5	+6	+2
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	67	+7	+10	+9
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	41	+7	+6	+8
14h. Attending campus activities and events (performing arts, athletic events, etc.)	57	+9	+9	+3
14i. Attending events that address important social, economic, or political issues	51	+11	+11	+10

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile available on the NSSE website.

a. Percentage point difference = Institution percentage – Comparison 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.

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Comparisons with Top 50% and Top 10% Institutions

While NSSE's policy is not to rank institutions (see **go.iu.edu/NSSE-PnP**), the results below are designed to compare the engagement of your students with those attending two groups of institutions identified by NSSE[a] for their high average levels of student engagement:

  (a) institutions with average scores placing them in the top 50% of all 2022 and 2023 NSSE institutions, and
  (b) institutions with average scores placing them in the top 10% of all 2022 and 2023 NSSE institutions.

While the average scores for most institutions are below the mean for the top 50% or top 10%, your institution may show areas of distinction where your average student was as engaged as (or even more engaged than) the typical student at high-performing institutions. A check mark (✓) signifies those comparisons where your average score was at least comparable[b] to that of the high-performing group. However, the presence of a check mark does not necessarily mean that your institution was a member of that group.

It should be noted that most of the variability in student engagement is within, not between, institutions. Even "high-performing" institutions have students with engagement levels below the average for all institutions.

First-Year Students

| | | Sacramento State | Your first-year students compared with | | | | | |
| | | | NSSE Top 50% | | | NSSE Top 10% | | |
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
	Higher-Order Learning	37.1	39.5 ***	-.18		42.2 ***	-.40	
Academic Challenge	Reflective and Integrative Learning	36.0	37.3 *	-.10		39.8 ***	-.33	
	Learning Strategies	37.4	39.8 ***	-.17		42.8 ***	-.38	
	Quantitative Reasoning	29.1	30.7 *	-.11		33.4 ***	-.28	
Learning with Peers	Collaborative Learning	29.9	33.2 ***	-.24		36.5 ***	-.49	
	Discussions with Diverse Others	37.8	40.5 ***	-.19		43.6 ***	-.42	
Experiences with Faculty	Student-Faculty Interaction	19.9	25.4 ***	-.36		29.3 ***	-.61	
	Effective Teaching Practices	38.6	40.2 **	-.12		43.3 ***	-.35	
Campus Environment	Quality of Interactions	42.8	45.2 ***	-.21		48.1 ***	-.44	
	Supportive Environment	35.1	36.8 **	-.12		39.6 ***	-.35	

Seniors

| | | Sacramento State | Your seniors compared with | | | | | |
| | | | NSSE Top 50% | | | NSSE Top 10% | | |
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
	Higher-Order Learning	41.1	42.1 **	-.07		44.7 ***	-.28	
Academic Challenge	Reflective and Integrative Learning	39.1	40.6 ***	-.12		43.1 ***	-.33	
	Learning Strategies	39.6	41.0 ***	-.10		43.6 ***	-.28	
	Quantitative Reasoning	31.7	32.7 *	-.06		36.3 ***	-.28	
Learning with Peers	Collaborative Learning	32.2	34.7 ***	-.18		38.1 ***	-.43	
	Discussions with Diverse Others	41.7	41.0	.04	✓	43.9 ***	-.15	
Experiences with Faculty	Student-Faculty Interaction	22.3	29.6 ***	-.45		34.3 ***	-.75	
	Effective Teaching Practices	40.3	42.1 ***	-.13		44.7 ***	-.33	
Campus Environment	Quality of Interactions	42.6	45.4 ***	-.23		47.9 ***	-.42	
	Supportive Environment	34.7	34.5	.01	✓	37.7 ***	-.21	

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by the pooled standard deviation; *$p < .05$, **$p < .01$, ***$p < .001$ (2-tailed).

a. Precision-weighted means were used to determine the top 50% and top 10% institutions for each Engagement Indicator from all current- and prior-year institutions, separately by class. Using this method, Engagement Indicator scores of institutions with relatively large standard errors were adjusted toward the mean of all students, while those with smaller standard errors received smaller corrections. As a result, schools with less stable data—even those with high average scores—may not be among the top scorers. NSSE does not publish the names of the top 50% and top 10% institutions because of our commitment not to release institutional results and our policy against ranking institutions.

b. Check marks are assigned to comparisons that are either positive or non-significant with an effect size > -.10.

NSSE 2023 Engagement Indicators

Detailed Statistics[a]

California State University, Sacramento

Detailed Statistics: First-Year Students

	Mean statistics			Percentile[d] scores					Comparison results			
	Mean	SD[b]	SE[c]	5th	25th	50th	75th	95th	Deg. of freedom[e]	Mean diff.	Sig.[f]	Effect size[g]
Academic Challenge												
Higher-Order Learning												
Sacramento State (N = 527)	37.1	13.2	.58	15	30	40	45	60				
Far West Public	37.7	13.1	.14	20	30	40	45	60	8,888	-.6	.309	-.046
Carnegie Class	38.0	13.6	.08	15	30	40	45	60	30,085	-.9	.154	-.063
NSSE 2022 & 2023	38.3	13.3	.04	20	30	40	45	60	118,862	-1.2	.046	-.087
Top 50%	39.5	13.2	.05	20	30	40	50	60	76,875	-2.4	.000	-.181
Top 10%	42.2	12.8	.13	20	35	40	55	60	9,786	-5.1	.000	-.398
Reflective & Integrative Learning												
Sacramento State (N = 594)	36.0	11.9	.49	17	29	37	43	57				
Far West Public	35.7	11.7	.12	17	29	34	43	57	9,619	.3	.574	.024
Carnegie Class	35.3	12.4	.07	17	26	34	43	57	32,989	.7	.144	.060
NSSE 2022 & 2023	35.8	12.2	.03	17	29	37	43	57	130,010	.2	.689	.016
Top 50%	37.3	12.0	.04	20	29	37	46	60	71,713	-1.2	.011	-.104
Top 10%	39.8	11.8	.12	20	31	40	49	60	9,919	-3.8	.000	-.326
Learning Strategies												
Sacramento State (N = 493)	37.4	14.1	.64	13	27	40	47	60				
Far West Public	36.8	13.5	.15	20	27	40	47	60	8,273	.6	.318	.046
Carnegie Class	38.7	14.2	.09	20	27	40	47	60	27,586	-1.3	.047	-.090
NSSE 2022 & 2023	38.2	13.9	.04	20	27	40	47	60	109,508	-.8	.219	-.056
Top 50%	39.8	13.9	.06	20	27	40	53	60	61,845	-2.4	.000	-.171
Top 10%	42.8	14.0	.12	20	33	40	60	60	13,283	-5.4	.000	-.385
Quantitative Reasoning												
Sacramento State (N = 508)	29.1	14.9	.66	7	20	27	40	60				
Far West Public	29.5	14.8	.17	7	20	27	40	60	8,408	-.4	.567	-.026
Carnegie Class	29.0	15.7	.09	0	20	27	40	60	28,116	.1	.889	.006
NSSE 2022 & 2023	29.4	15.5	.05	0	20	27	40	60	111,434	-.3	.616	-.022
Top 50%	30.7	15.3	.06	7	20	27	40	60	74,660	-1.6	.018	-.105
Top 10%	33.4	15.4	.14	7	20	33	40	60	12,488	-4.4	.000	-.282
Learning with Peers												
Collaborative Learning												
Sacramento State (N = 655)	29.9	13.3	.52	10	20	30	40	55				
Far West Public	30.3	13.9	.14	10	20	30	40	55	10,286	-.4	.444	-.031
Carnegie Class	25.5	16.1	.09	0	15	25	35	55	691	4.3	.000	.269
NSSE 2022 & 2023	29.2	15.1	.04	5	20	30	40	55	662	.7	.207	.044
Top 50%	33.2	13.9	.05	10	25	35	40	60	665	-3.4	.000	-.242
Top 10%	36.5	13.7	.11	15	25	35	45	60	17,419	-6.7	.000	-.488
Discussions with Diverse Others												
Sacramento State (N = 504)	37.8	15.3	.68	15	25	40	50	60				
Far West Public	37.0	15.3	.17	10	25	40	50	60	8,319	.8	.248	.053
Carnegie Class	36.0	17.1	.10	0	20	40	50	60	526	1.8	.011	.104
NSSE 2022 & 2023	38.1	15.8	.05	10	25	40	50	60	110,316	-.3	.635	-.021
Top 50%	40.5	14.8	.06	20	30	40	55	60	68,179	-2.8	.000	-.186
Top 10%	43.6	13.9	.16	20	35	40	60	60	556	-5.9	.000	-.420

NSSE 2023 Engagement Indicators

Detailed Statistics[a]
California State University, Sacramento

Detailed Statistics: First-Year Students

	Mean statistics			Percentile[d] scores					Comparison results			
	Mean	SD[b]	SE[c]	5th	25th	50th	75th	95th	Deg. of freedom[e]	Mean diff.	Sig.[f]	Effect size[g]
Experiences with Faculty												
Student-Faculty Interaction												
Sacramento State (N = 561)	19.9	15.2	.64	0	10	20	30	50				
Far West Public	19.2	14.6	.16	0	10	15	30	45	9,244	.7	.291	.046
Carnegie Class	21.3	15.2	.09	0	10	20	30	50	31,486	-1.5	.025	-.095
NSSE 2022 & 2023	21.6	15.1	.04	0	10	20	30	50	123,962	-1.7	.008	-.113
Top 50%	25.4	15.3	.08	5	15	25	35	60	41,547	-5.5	.000	-.358
Top 10%	29.3	15.3	.20	5	20	25	40	60	675	-9.4	.000	-.612
Effective Teaching Practices												
Sacramento State (N = 532)	38.6	13.3	.58	16	28	40	48	60				
Far West Public	37.2	13.3	.15	16	28	36	48	60	8,880	1.4	.022	.102
Carnegie Class	38.7	13.9	.08	16	28	40	48	60	29,968	-.1	.868	-.007
NSSE 2022 & 2023	38.4	13.3	.04	16	28	40	48	60	118,359	.2	.686	.018
Top 50%	40.2	13.5	.06	16	32	40	52	60	52,865	-1.6	.008	-.115
Top 10%	43.3	13.3	.16	20	36	44	56	60	7,411	-4.7	.000	-.351
Campus Environment												
Quality of Interactions												
Sacramento State (N = 438)	42.8	12.6	.60	18	36	44	52	60				
Far West Public	41.5	11.9	.14	20	34	42	50	60	7,385	1.3	.033	.105
Carnegie Class	43.6	12.4	.08	20	36	45	53	60	24,485	-.8	.188	-.064
NSSE 2022 & 2023	43.0	11.7	.04	22	36	44	52	60	100,818	-.2	.682	-.020
Top 50%	45.2	11.5	.06	24	38	46	54	60	444	-2.5	.000	-.214
Top 10%	48.1	12.1	.14	24	42	50	60	60	8,302	-5.3	.000	-.441
Supportive Environment												
Sacramento State (N = 467)	35.1	13.8	.64	13	25	35	43	60				
Far West Public	33.1	13.5	.16	10	23	33	40	58	8,001	2.1	.001	.153
Carnegie Class	33.8	14.1	.09	10	23	35	43	60	26,606	1.3	.048	.092
NSSE 2022 & 2023	34.6	13.5	.04	13	25	35	43	60	105,932	.6	.355	.043
Top 50%	36.8	13.0	.06	15	28	38	45	60	46,129	-1.6	.007	-.124
Top 10%	39.6	12.8	.17	20	30	40	50	60	537	-4.5	.000	-.350

a. Results weighted by institution-reported sex and enrollment status (and institutional size for comparison groups).

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 (equal to the sample mean +/- 1.96 x SE) is the range that is 95% likely to contain the true population mean.

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 vary from the total Ns due to weighting and 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.

g. Effect size is the mean difference divided by the pooled standard deviation.

Detailed Statistics: Seniors

	Mean statistics			Percentile[d] scores					Comparison results			
	Mean	SD[b]	SE[c]	5th	25th	50th	75th	95th	Deg. of freedom[e]	Mean diff.	Sig.[f]	Effect size[g]
Academic Challenge												
Higher-Order Learning												
Sacramento State (N = 1609)	41.1	13.6	.34	20	35	40	50	60				
Far West Public	40.6	13.8	.11	20	30	40	50	60	16,688	.5	.179	.035
Carnegie Class	40.7	13.9	.07	20	30	40	50	60	42,539	.4	.274	.028
NSSE 2022 & 2023	40.7	13.8	.03	20	30	40	50	60	162,871	.5	.192	.033
Top 50%	42.1	13.7	.05	20	35	40	55	60	75,648	-1.0	.005	-.071
Top 10%	44.7	12.8	.15	20	40	45	60	60	8,843	-3.6	.000	-.277
Reflective & Integrative Learning												
Sacramento State (N = 1731)	39.1	12.7	.31	17	31	40	49	60				
Far West Public	39.0	12.9	.10	17	31	40	49	60	17,775	.1	.776	.007
Carnegie Class	38.5	13.0	.06	17	29	40	49	60	45,474	.7	.039	.051
NSSE 2022 & 2023	38.7	12.9	.03	17	29	40	49	60	173,858	.4	.154	.034
Top 50%	40.6	12.5	.05	20	31	40	51	60	70,271	-1.5	.000	-.119
Top 10%	43.1	11.8	.14	23	34	43	54	60	2,533	-4.0	.000	-.330
Learning Strategies												
Sacramento State (N = 1518)	39.6	13.9	.36	20	33	40	53	60				
Far West Public	39.3	14.4	.12	13	27	40	53	60	1,882	.2	.512	.017
Carnegie Class	39.7	14.7	.08	13	27	40	53	60	1,655	-.1	.716	-.009
NSSE 2022 & 2023	39.2	14.6	.04	13	27	40	53	60	1,551	.4	.224	.030
Top 50%	41.0	14.5	.05	20	33	40	53	60	1,581	-1.4	.000	-.096
Top 10%	43.6	14.1	.13	20	33	40	60	60	1,946	-4.0	.000	-.282
Quantitative Reasoning												
Sacramento State (N = 1552)	31.7	16.4	.42	0	20	33	40	60				
Far West Public	31.5	16.4	.14	0	20	33	40	60	16,043	.2	.711	.010
Carnegie Class	30.9	16.6	.08	0	20	33	40	60	40,588	.8	.070	.047
NSSE 2022 & 2023	31.4	16.6	.04	0	20	33	40	60	155,263	.3	.459	.019
Top 50%	32.7	16.5	.05	7	20	33	40	60	95,253	-1.0	.019	-.060
Top 10%	36.3	16.2	.18	7	20	40	47	60	9,188	-4.6	.000	-.281
Learning with Peers												
Collaborative Learning												
Sacramento State (N = 1801)	32.2	14.2	.33	10	20	30	40	60				
Far West Public	32.2	14.8	.11	10	20	30	40	60	2,245	.0	.936	-.002
Carnegie Class	27.8	16.9	.08	0	15	30	40	60	2,007	4.4	.000	.260
NSSE 2022 & 2023	30.2	16.1	.04	0	20	30	40	60	1,847	1.9	.000	.121
Top 50%	34.7	14.2	.05	10	25	35	45	60	77,917	-2.5	.000	-.178
Top 10%	38.1	13.6	.13	15	30	40	50	60	2,419	-5.9	.000	-.432
Discussions with Diverse Others												
Sacramento State (N = 1522)	41.7	15.4	.39	15	30	40	60	60				
Far West Public	38.9	16.0	.13	10	25	40	55	60	15,886	2.8	.000	.175
Carnegie Class	37.4	17.2	.09	0	25	40	50	60	1,674	4.3	.000	.252
NSSE 2022 & 2023	38.8	16.2	.04	10	25	40	55	60	153,936	2.9	.000	.181
Top 50%	41.0	15.6	.05	15	30	40	55	60	83,702	.7	.098	.043
Top 10%	43.9	14.8	.16	20	35	45	60	60	2,029	-2.2	.000	-.149

Detailed Statistics: Seniors

	Mean statistics			Percentile[d] scores					Comparison results			
	Mean	SD[b]	SE[c]	5th	25th	50th	75th	95th	Deg. of freedom[e]	Mean diff.	Sig.[f]	Effect size[g]
Experiences with Faculty												
Student-Faculty Interaction												
Sacramento State (N = 1663)	22.3	16.2	.40	0	10	20	35	60				
Far West Public	22.5	16.3	.13	0	10	20	35	60	17,190	-.2	.650	-.012
Carnegie Class	23.4	16.6	.08	0	10	20	35	60	43,872	-1.1	.008	-.066
NSSE 2022 & 2023	23.8	16.5	.04	0	10	20	35	60	167,882	-1.5	.000	-.088
Top 50%	29.6	16.2	.08	5	20	30	40	60	38,161	-7.3	.000	-.449
Top 10%	34.3	15.8	.25	10	20	35	45	60	5,818	-12.0	.000	-.750
Effective Teaching Practices												
Sacramento State (N = 1605)	40.3	13.6	.34	20	32	40	52	60				
Far West Public	39.7	14.2	.12	16	32	40	52	60	1,994	.7	.063	.047
Carnegie Class	40.1	14.6	.07	16	32	40	52	60	1,752	.3	.445	.018
NSSE 2022 & 2023	40.0	14.1	.04	16	32	40	52	60	1,638	.3	.373	.021
Top 50%	42.1	13.8	.06	20	32	40	56	60	1,699	-1.8	.000	-.131
Top 10%	44.7	13.4	.14	20	36	44	56	60	10,384	-4.4	.000	-.325
Campus Environment												
Quality of Interactions												
Sacramento State (N = 1359)	42.6	13.2	.36	18	35	44	52	60				
Far West Public	42.5	12.9	.11	18	34	44	52	60	14,226	.2	.653	.013
Carnegie Class	43.9	12.7	.07	20	36	46	54	60	35,533	-1.3	.000	-.100
NSSE 2022 & 2023	43.1	12.4	.03	20	36	44	52	60	1,382	-.4	.247	-.033
Top 50%	45.4	12.1	.05	22	38	48	55	60	1,410	-2.7	.000	-.226
Top 10%	47.9	12.5	.10	22	40	50	60	60	1,591	-5.3	.000	-.417
Supportive Environment												
Sacramento State (N = 1472)	34.7	14.8	.38	10	23	35	45	60				
Far West Public	31.6	14.7	.12	8	20	33	40	60	15,450	3.1	.000	.211
Carnegie Class	31.4	14.9	.08	8	20	30	40	60	38,923	3.3	.000	.218
NSSE 2022 & 2023	31.9	14.5	.04	8	20	33	40	60	149,553	2.8	.000	.190
Top 50%	34.5	14.3	.06	10	25	35	45	60	55,277	.2	.686	.011
Top 10%	37.7	13.9	.19	15	28	38	48	60	2,249	-3.0	.000	-.211

a. Results weighted by institution-reported sex and enrollment status (and institutional size for comparison groups).

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 (equal to the sample mean +/- 1.96 x SE)
   is the range that is 95% likely to contain the true population mean.

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 vary from the total Ns due to weighting and 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.

g. Effect size is the mean difference divided by the pooled standard deviation.