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# **NSSE 2020**

## **Engagement Indicators**

San Francisco State University

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### 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
<i>Academic Challenge</i>	Higher-Order Learning Reflective & Integrative Learning Learning Strategies Quantitative Reasoning
<i>Learning with Peers</i>	Collaborative Learning Discussions with Diverse Others
<i>Experiences with Faculty</i>	Student-Faculty Interaction Effective Teaching Practices
<i>Campus Environment</i>	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 2019 and 2020 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 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. The Report Builder and your *Major Field Report* (both to be 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](https://nsse.indiana.edu)

## 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.

### First-Year Students

<i>Theme</i>	<i>Engagement Indicator</i>	Your first-year students compared with CSU Campuses	Your first-year students compared with Carnegie 10k+ Public	Your first-year students compared with NSSE 2019 & 2020
<i>Academic Challenge</i>	Higher-Order Learning	△	△	--
	Reflective & Integrative Learning	△	△	△
	Learning Strategies	△	△	--
	Quantitative Reasoning	△	△	△
<i>Learning with Peers</i>	Collaborative Learning	--	△	--
	Discussions with Diverse Others	△	△	--
<i>Experiences with Faculty</i>	Student-Faculty Interaction	--	--	▽
	Effective Teaching Practices	--	--	--
<i>Campus Environment</i>	Quality of Interactions	▽	▽	▼
	Supportive Environment	▽	▽	▽

### Seniors

<i>Theme</i>	<i>Engagement Indicator</i>	Your seniors compared with CSU Campuses	Your seniors compared with Carnegie 10k+ Public	Your seniors compared with NSSE 2019 & 2020
<i>Academic Challenge</i>	Higher-Order Learning	--	--	--
	Reflective & Integrative Learning	△	△	△
	Learning Strategies	--	--	--
	Quantitative Reasoning	--	△	--
<i>Learning with Peers</i>	Collaborative Learning	--	△	△
	Discussions with Diverse Others	--	--	--
<i>Experiences with Faculty</i>	Student-Faculty Interaction	--	--	▽
	Effective Teaching Practices	--	--	--
<i>Campus Environment</i>	Quality of Interactions	▽	▽	▽
	Supportive Environment	▽	▽	▽

### Academic Challenge: First-year students

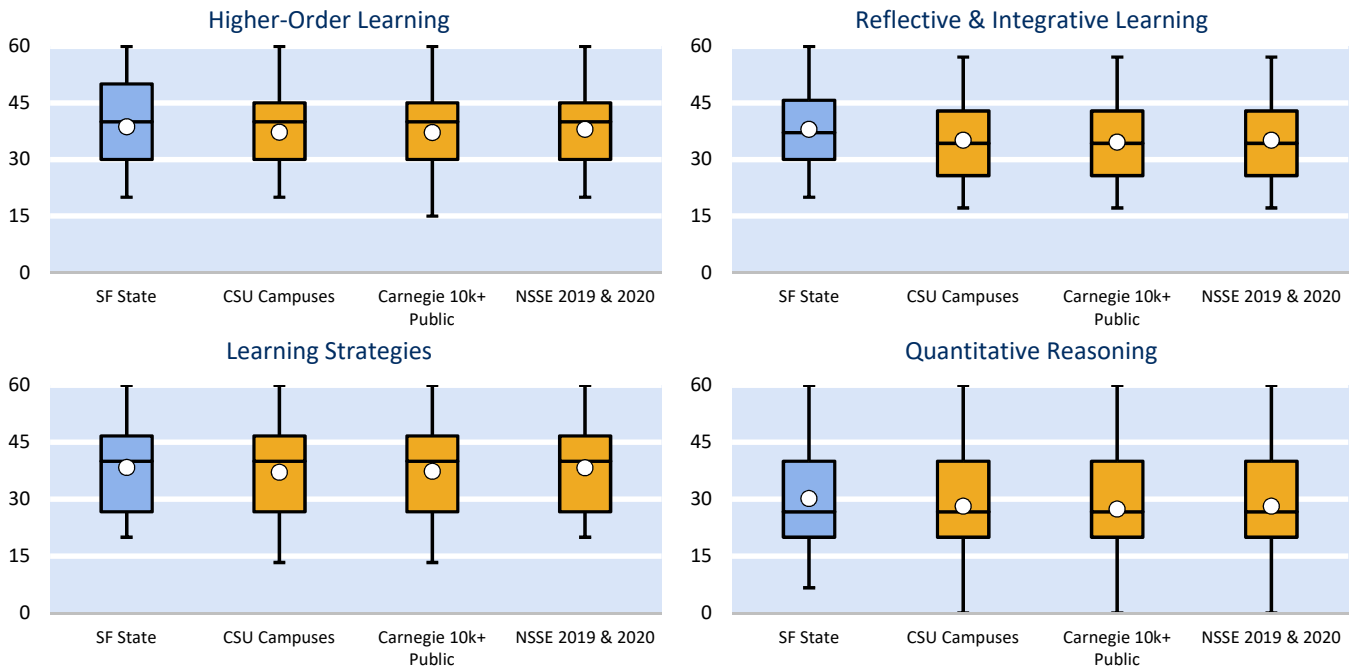
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*, *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

Engagement Indicator	SF State Mean	Your first-year students compared with					
		CSU Campuses		Carnegie 10k+ Public		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	38.7	37.3 ***	.11	37.2 ***	.12	38.1	.05
Reflective & Integrative Learning	38.1	35.1 ***	.25	34.6 ***	.29	35.2 ***	.24
Learning Strategies	38.3	37.1 **	.09	37.4 *	.07	38.3	.01
Quantitative Reasoning	30.2	28.1 ***	.13	27.4 ***	.18	28.2 ***	.13

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.

## 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.

	SF State	Percentage point difference <sup>a</sup> between your FY students and		
		CSU Campuses	Carnegie 10k+ Public	NSSE 2019 & 2020
<b>Higher-Order Learning</b>				
<i>Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized...</i>				
	%			
4b. Applying facts, theories, or methods to practical problems or new situations	65	-0	-1	-5
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	72	+5	+5	+3
4d. Evaluating a point of view, decision, or information source	76	+5	+6	+7
4e. Forming a new idea or understanding from various pieces of information	73	+5	+5	+4
<b>Reflective &amp; Integrative Learning</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
2a. Combined ideas from different courses when completing assignments	54	+2	+4	+3
2b. Connected your learning to societal problems or issues	62	+11	+12	+11
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	66	+14	+16	+15
2d. Examined the strengths and weaknesses of your own views on a topic or issue	70	+9	+9	+7
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	76	+4	+6	+6
2f. Learned something that changed the way you understand an issue or concept	70	+2	+4	+4
2g. Connected ideas from your courses to your prior experiences and knowledge	80	+5	+5	+3
<b>Learning Strategies</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	76	+3	+3	+1
9b. Reviewed your notes after class	67	+2	+1	+1
9c. Summarized what you learned in class or from course materials	63	+3	+2	-1
<b>Quantitative Reasoning</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	54	+2	+3	+1
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	48	+6	+8	+7
6c. Evaluated what others have concluded from numerical information	45	+4	+7	+5

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

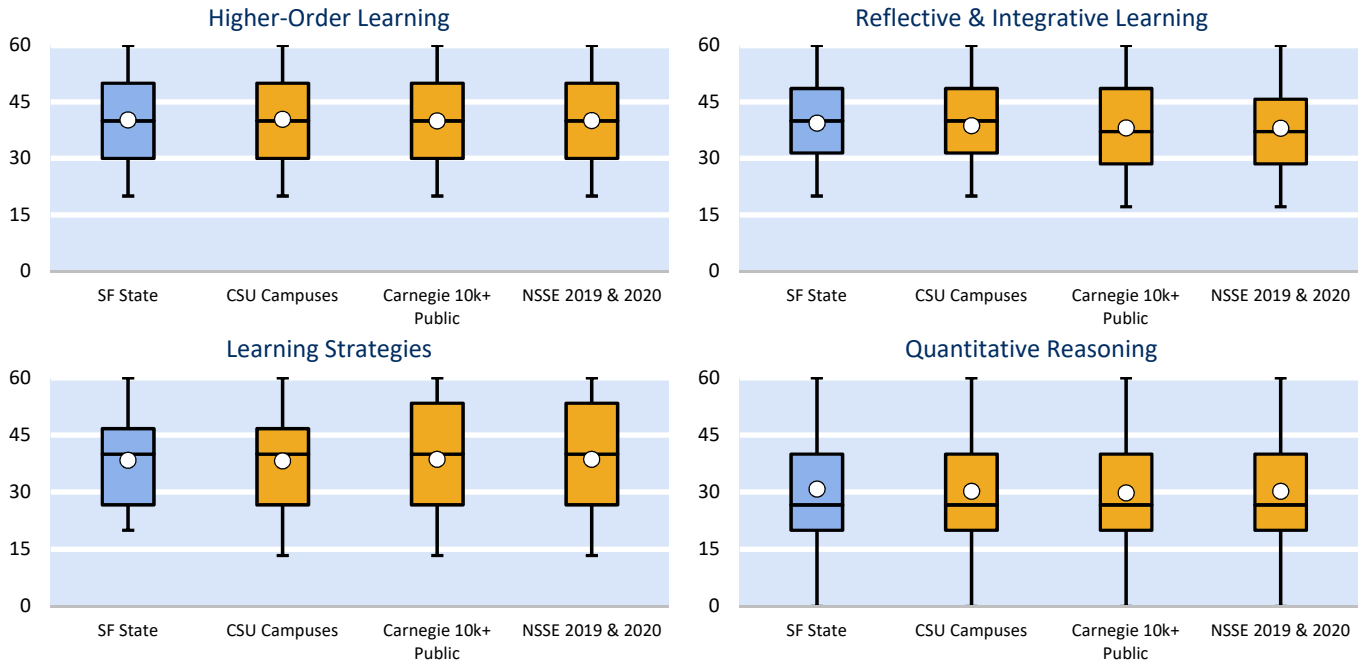
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#### Mean Comparisons

Engagement Indicator	SF State Mean	Your seniors compared with					
		CSU Campuses		Carnegie 10k+ Public		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	40.3	40.4	-.01	40.0	.02	40.1	.01
Reflective & Integrative Learning	39.4	38.7 *	.05	38.2 ***	.10	38.1 ***	.11
Learning Strategies	38.3	38.1	.01	38.6	-.02	38.6	-.02
Quantitative Reasoning	30.8	30.2	.04	29.8 **	.06	30.2	.03

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.

## 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.

	SF State	Percentage point difference <sup>a</sup> between your seniors and		
		CSU Campuses	Carnegie 10k+ Public	NSSE 2019 & 2020
<b>Higher-Order Learning</b>				
<i>Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized...</i>				
	%			
4b. Applying facts, theories, or methods to practical problems or new situations	74	-2	-2	-3
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	76	+1	+2	+1
4d. Evaluating a point of view, decision, or information source	74	+1	+2	+3
4e. Forming a new idea or understanding from various pieces of information	75	+2	+3	+3
<b>Reflective &amp; Integrative Learning</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
2a. Combined ideas from different courses when completing assignments	70	-2	+1	+1
2b. Connected your learning to societal problems or issues	65	+2	+3	+4
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	61	+6	+8	+8
2d. Examined the strengths and weaknesses of your own views on a topic or issue	68	+3	+3	+2
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	77	+2	+3	+4
2f. Learned something that changed the way you understand an issue or concept	76	+3	+4	+5
2g. Connected ideas from your courses to your prior experiences and knowledge	83	-1	-1	-1
<b>Learning Strategies</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	77	+1	-0	-0
9b. Reviewed your notes after class	64	+1	-0	+1
9c. Summarized what you learned in class or from course materials	63	+1	-1	-2
<b>Quantitative Reasoning</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	56	+1	+1	-0
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	47	+1	+2	+1
6c. Evaluated what others have concluded from numerical information	48	+1	+3	+2

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### Learning with Peers: First-year students

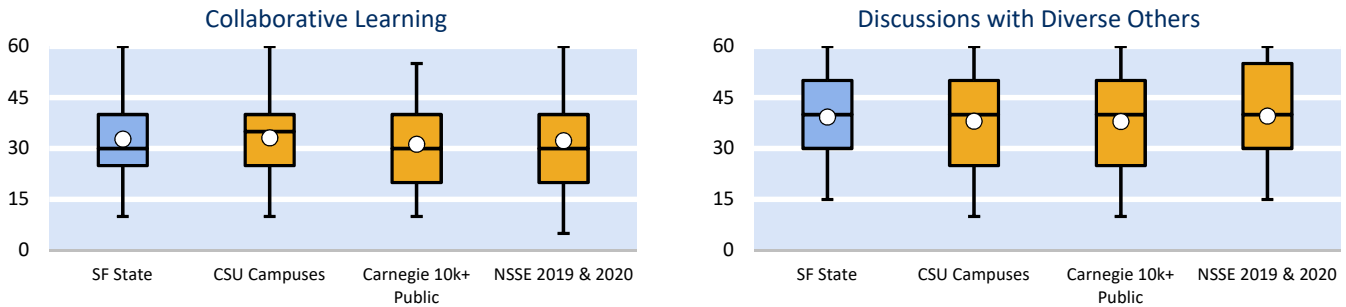
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

#### Mean Comparisons

Engagement Indicator	SF State Mean	Your first-year students compared with					
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		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	32.8	33.1	-.02	31.3 ***	.11	32.3	.04
Discussions with Diverse Others	39.2	38.0 *	.07	37.9 *	.08	39.5	-.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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	SF State %	Percentage point difference <sup>a</sup> between your FY students and		
		CSU Campuses	Carnegie 10k+ Public	NSSE 2019 & 2020
<b>Collaborative Learning</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
1e. Asked another student to help you understand course material	54	-2	+3	+2
1f. Explained course material to one or more students	56	-1	+2	-1
1g. Prepared for exams by discussing or working through course material with other students	48	-1	+2	-2
1h. Worked with other students on course projects or assignments	63	+4	+9	+8
<b>Discussions with Diverse Others</b>				
<i>Percentage of students who responded that they "Very often" or "Often" had discussions with...</i>				
8a. People of a race or ethnicity other than your own	79	+6	+10	+8
8b. People from an economic background other than your own	72	+3	+4	+1
8c. People with religious beliefs other than your own	66	+3	+2	-1
8d. People with political views other than your own	47	-9	-13	-17

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: Seniors

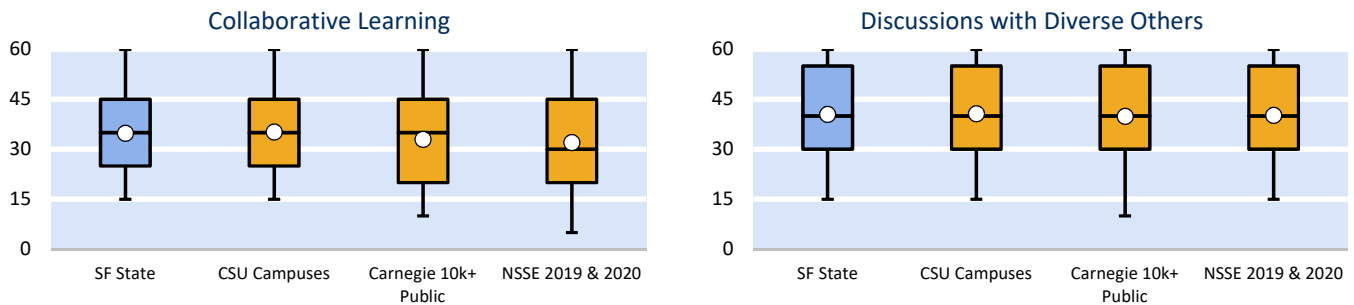
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#### Mean Comparisons

Engagement Indicator	SF State Mean	Your seniors compared with					
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		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	34.8	35.2	-.03	33.0 ***	.13	32.0 ***	.18
Discussions with Diverse Others	40.5	40.7	-.01	39.9	.03	40.2	.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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	SF State	Percentage point difference <sup>a</sup> between your seniors and		
		CSU Campuses	Carnegie 10k+ Public	NSSE 2019 & 2020
<b>Collaborative Learning</b>				
Percentage of students who responded that they "Very often" or "Often"...				
	%			
1e. Asked another student to help you understand course material	49	+0	+5	+6
1f. Explained course material to one or more students	60	-1	+2	+3
1g. Prepared for exams by discussing or working through course material with other students	52	+0	+5	+5
1h. Worked with other students on course projects or assignments	73	+0	+7	+10
<b>Discussions with Diverse Others</b>				
Percentage of students who responded that they "Very often" or "Often" had discussions with...				
8a. People of a race or ethnicity other than your own	81	+3	+8	+9
8b. People from an economic background other than your own	76	+1	+3	+3
8c. People with religious beliefs other than your own	70	+1	+2	+2
8d. People with political views other than your own	52	-7	-10	-13

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### Experiences with Faculty: First-year students

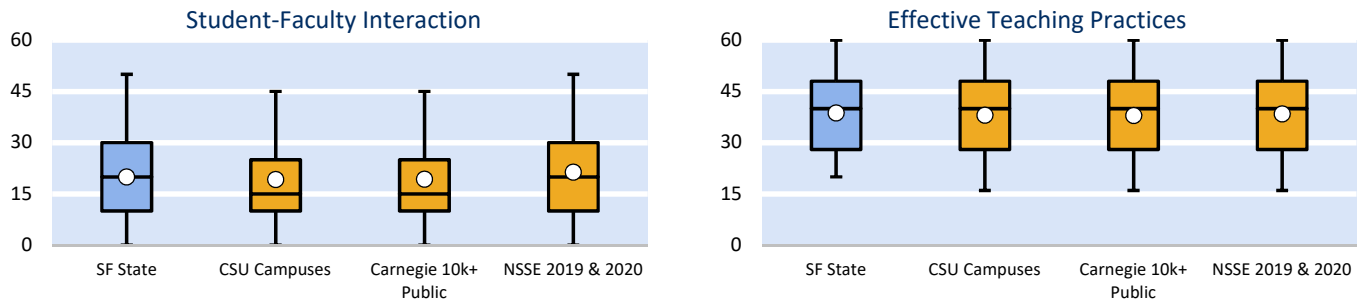
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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

Engagement Indicator	SF State Mean	Your first-year students compared with					
		CSU Campuses Effect size		Carnegie 10k+ Public Effect size		NSSE 2019 & 2020 Effect size	
	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Student-Faculty Interaction	19.9	19.2	.05	19.3	.04	21.4 **	-.10
Effective Teaching Practices	38.6	38.1	.04	37.9	.06	38.4	.02

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Student-Faculty Interaction	SF State %	Percentage point difference <sup>a</sup> between your FY students and		
		CSU Campuses	Carnegie 10k+ Public	NSSE 2019 & 2020
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
3a. Talked about career plans with a faculty member	34	+1	+0	-4
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	20	+1	+1	-2
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	24	+1	+1	-2
3d. Discussed your academic performance with a faculty member	28	+1	+1	-2
<i>Effective Teaching Practices</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much instructors have...</i>				
5a. Clearly explained course goals and requirements	80	+5	+4	+3
5b. Taught course sessions in an organized way	70	-0	-1	-4
5c. Used examples or illustrations to explain difficult points	72	-0	-0	-2
5d. Provided feedback on a draft or work in progress	68	+3	+5	+5
5e. Provided prompt and detailed feedback on tests or completed assignments	59	+0	+0	-0

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### Experiences with Faculty: Seniors

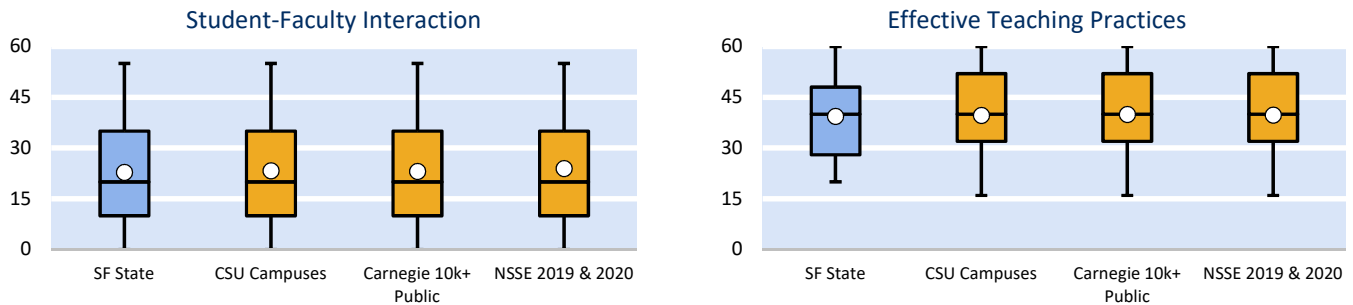
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Effective Teaching Practices	39.4	39.6	-.02	39.9	-.04	39.7	-.03

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3a. Talked about career plans with a faculty member	38	-3	-3	-6
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	23	-3	-2	-4
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	30	-0	-0	-2
3d. Discussed your academic performance with a faculty member	35	+2	+2	+1
<i>Effective Teaching Practices</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much instructors have...</i>				
5a. Clearly explained course goals and requirements	82	+1	+1	+2
5b. Taught course sessions in an organized way	74	-1	-3	-3
5c. Used examples or illustrations to explain difficult points	76	-2	-2	-1
5d. Provided feedback on a draft or work in progress	62	-1	-1	+0
5e. Provided prompt and detailed feedback on tests or completed assignments	61	-0	-2	-3

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: First-year students

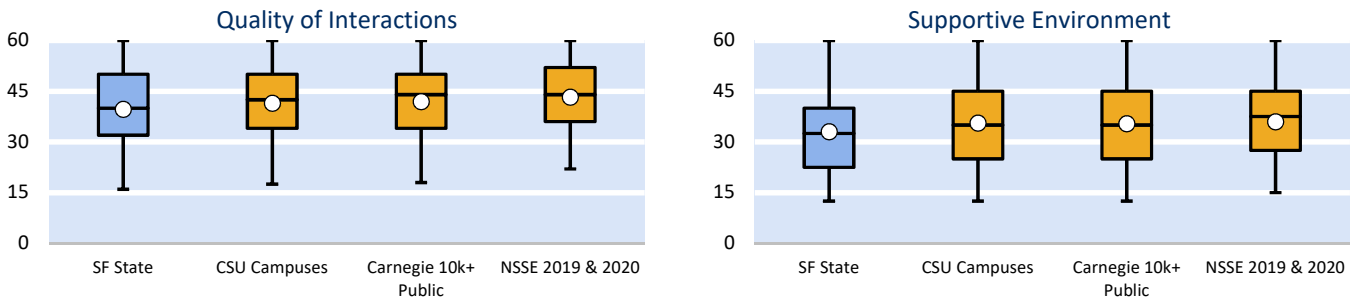
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

#### Mean Comparisons

Engagement Indicator	SF State Mean	Your first-year students compared with					
		CSU Campuses		Carnegie 10k+ Public		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	39.7	41.5 ***	-.14	41.9 ***	-.18	43.2 ***	-.30
Supportive Environment	33.0	35.6 ***	-.18	35.4 ***	-.17	36.0 ***	-.22

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	SF State	Percentage point difference <sup>a</sup> between your FY students and		
		CSU Campuses	Carnegie 10k+ Public	NSSE 2019 & 2020
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
	%			
13a. Students	45	-5	-4	-8
13b. Academic advisors	46	-3	-4	-8
13c. Faculty	42	-3	-6	-11
13d. Student services staff (career services, student activities, housing, etc.)	35	-9	-11	-13
13e. Other administrative staff and offices (registrar, financial aid, etc.)	34	-10	-11	-13
<i>Supportive Environment</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	68	-6	-5	-7
14c. Using learning support services (tutoring services, writing center, etc.)	68	-7	-8	-9
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	66	+4	+5	+5
14e. Providing opportunities to be involved socially	60	-8	-9	-11
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	68	-2	-1	-1
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	41	-6	-3	-1
14h. Attending campus activities and events (performing arts, athletic events, etc.)	42	-15	-16	-22
14i. Attending events that address important social, economic, or political issues	44	-2	-2	-3

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

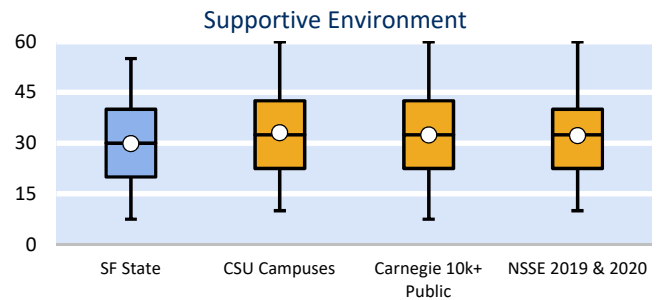
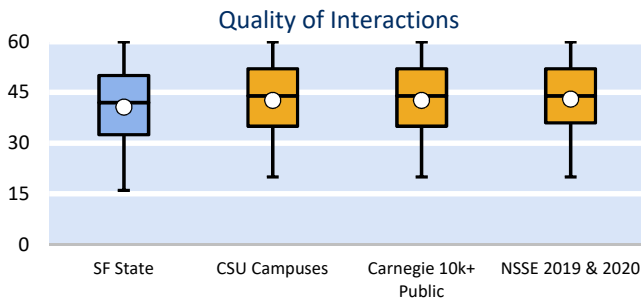
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

#### Mean Comparisons

Engagement Indicator	SF State Mean	Your seniors compared with					
		CSU Campuses		Carnegie 10k+ Public		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	40.7	42.7 ***	-.16	42.7 ***	-.16	43.1 ***	-.20
Supportive Environment	29.9	33.1 ***	-.22	32.4 ***	-.18	32.2 ***	-.17

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	SF State	Percentage point difference <sup>a</sup> between your seniors and		
		CSU Campuses	Carnegie 10k+ Public	NSSE 2019 & 2020
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
	%			
13a. Students	53	-6	-5	-5
13b. Academic advisors	44	-6	-6	-9
13c. Faculty	50	-4	-5	-7
13d. Student services staff (career services, student activities, housing, etc.)	36	-8	-8	-8
13e. Other administrative staff and offices (registrar, financial aid, etc.)	37	-7	-7	-8
<i>Supportive Environment</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	62	-8	-8	-9
14c. Using learning support services (tutoring services, writing center, etc.)	58	-8	-7	-8
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	61	+1	+3	+7
14e. Providing opportunities to be involved socially	56	-9	-7	-8
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	57	-8	-4	-2
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	30	-7	-4	-2
14h. Attending campus activities and events (performing arts, athletic events, etc.)	33	-16	-15	-19
14i. Attending events that address important social, economic, or political issues	38	-3	-3	-2

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](http://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<sup>a</sup> for their high average levels of student engagement:

- (a) institutions with average scores placing them in the top 50% of all 2019 and 2020 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2019 and 2020 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<sup>b</sup> 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		SF State Mean	Your first-year students compared with					
			NSSE Top 50%			NSSE Top 10%		
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
<i>Academic Challenge</i>	Higher-Order Learning	38.7	39.3	-.05	✓	41.4 ***	-.21	
	Reflective and Integrative Learning	38.1	36.7 ***	.12	✓	39.0 *	-.08	
	Learning Strategies	38.3	39.9 ***	-.11		42.3 ***	-.28	
	Quantitative Reasoning	30.2	29.4	.05	✓	31.4 *	-.08	
<i>Learning with Peers</i>	Collaborative Learning	32.8	35.2 ***	-.17		37.4 ***	-.34	
	Discussions with Diverse Others	39.2	41.5 ***	-.15		43.6 ***	-.30	
<i>Experiences with Faculty</i>	Student-Faculty Interaction	19.9	24.5 ***	-.31		28.1 ***	-.53	
	Effective Teaching Practices	38.6	40.5 ***	-.14		42.3 ***	-.26	
<i>Campus Environment</i>	Quality of Interactions	39.7	45.2 ***	-.49		47.2 ***	-.64	
	Supportive Environment	33.0	37.9 ***	-.37		40.0 ***	-.54	

Seniors		SF State Mean	Your seniors compared with					
			NSSE Top 50%			NSSE Top 10%		
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
<i>Academic Challenge</i>	Higher-Order Learning	40.3	41.7 ***	-.11		43.2 ***	-.22	
	Reflective and Integrative Learning	39.4	39.8	-.04	✓	41.8 ***	-.20	
	Learning Strategies	38.3	40.7 ***	-.16		42.7 ***	-.30	
	Quantitative Reasoning	30.8	31.4	-.04	✓	33.4 ***	-.16	
<i>Learning with Peers</i>	Collaborative Learning	34.8	36.0 ***	-.08		38.4 ***	-.26	
	Discussions with Diverse Others	40.5	42.1 ***	-.10		43.8 ***	-.21	
<i>Experiences with Faculty</i>	Student-Faculty Interaction	22.8	29.7 ***	-.43		33.2 ***	-.66	
	Effective Teaching Practices	39.4	41.8 ***	-.18		43.7 ***	-.33	
<i>Campus Environment</i>	Quality of Interactions	40.7	45.2 ***	-.39		47.4 ***	-.56	
	Supportive Environment	29.9	34.6 ***	-.34		36.8 ***	-.49	

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 (produced by Hierarchical Linear Modeling) were used to determine the top 50% and top 10% institutions for each Engagement Indicator from all NSSE 2019 and 2020 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 significant and positive, or non-significant with an effect size > -.10.

#### Detailed Statistics: First-Year Students

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SE <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Academic Challenge</b>												
<b>Higher-Order Learning</b>												
SF State (N = 924)	38.7	12.7	.42	20	30	40	50	60				
CSU Campuses	37.3	13.3	.11	20	30	40	45	60	1,056	1.4	.001	.108
Carnegie 10k+ Public	37.2	13.3	.08	15	30	40	45	60	999	1.6	.000	.117
NSSE 2019 & 2020	38.1	13.2	.02	20	30	40	45	60	929	.7	.106	.051
Top 50%	39.3	13.1	.03	20	30	40	50	60	168,833	-.6	.164	-.046
Top 10%	41.4	12.8	.07	20	35	40	50	60	33,281	-2.7	.000	-.208
<b>Reflective &amp; Integrative Learning</b>												
SF State (N = 991)	38.1	11.7	.37	20	30	37	46	60				
CSU Campuses	35.1	11.8	.09	17	26	34	43	57	16,526	3.0	.000	.250
Carnegie 10k+ Public	34.6	11.9	.07	17	26	34	43	57	28,359	3.5	.000	.290
NSSE 2019 & 2020	35.2	12.0	.02	17	26	34	43	57	322,868	2.9	.000	.242
Top 50%	36.7	11.8	.03	17	29	37	46	57	164,855	1.4	.000	.117
Top 10%	39.0	11.7	.07	20	31	40	49	60	26,878	-.9	.016	-.078
<b>Learning Strategies</b>												
SF State (N = 879)	38.3	13.4	.45	20	27	40	47	60				
CSU Campuses	37.1	13.6	.12	13	27	40	47	60	14,574	1.3	.007	.093
Carnegie 10k+ Public	37.4	13.6	.09	13	27	40	47	60	24,459	1.0	.041	.070
NSSE 2019 & 2020	38.3	13.8	.03	20	27	40	47	60	282,015	.1	.877	.005
Top 50%	39.9	13.7	.04	20	33	40	53	60	143,096	-1.6	.001	-.114
Top 10%	42.3	14.1	.08	20	33	40	53	60	933	-4.0	.000	-.281
<b>Quantitative Reasoning</b>												
SF State (N = 900)	30.2	14.7	.49	7	20	27	40	60				
CSU Campuses	28.1	15.1	.13	0	20	27	40	60	14,823	2.0	.000	.134
Carnegie 10k+ Public	27.4	15.2	.10	0	20	27	40	60	24,962	2.7	.000	.180
NSSE 2019 & 2020	28.2	15.3	.03	0	20	27	40	60	286,789	2.0	.000	.129
Top 50%	29.4	15.2	.04	7	20	27	40	60	186,107	.7	.142	.049
Top 10%	31.4	15.3	.08	7	20	33	40	60	944	-1.2	.015	-.079
<b>Learning with Peers</b>												
<b>Collaborative Learning</b>												
SF State (N = 1052)	32.8	13.6	.42	10	25	30	40	60				
CSU Campuses	33.1	13.6	.11	10	25	35	40	60	17,608	-.3	.437	-.025
Carnegie 10k+ Public	31.3	14.0	.08	10	20	30	40	55	30,462	1.5	.001	.109
NSSE 2019 & 2020	32.3	14.7	.02	5	20	30	40	60	1,059	.5	.203	.036
Top 50%	35.2	13.7	.03	15	25	35	45	60	215,659	-2.4	.000	-.174
Top 10%	37.4	13.5	.06	15	30	40	45	60	45,989	-4.6	.000	-.340
<b>Discussions with Diverse Others</b>												
SF State (N = 886)	39.2	15.3	.51	15	30	40	50	60				
CSU Campuses	38.0	15.9	.14	10	25	40	50	60	14,658	1.2	.032	.074
Carnegie 10k+ Public	37.9	15.8	.10	10	25	40	50	60	24,641	1.3	.017	.081
NSSE 2019 & 2020	39.5	15.6	.03	15	30	40	55	60	284,080	-.3	.574	-.019
Top 50%	41.5	15.0	.03	20	30	40	55	60	191,481	-2.2	.000	-.150
Top 10%	43.6	14.5	.07	20	35	45	60	60	921	-4.4	.000	-.303



#### Detailed Statistics: First-Year Students

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SE <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Experiences with Faculty</b>												
<b>Student-Faculty Interaction</b>												
SF State (N = 953)	19.9	14.9	.48	0	10	20	30	50				
CSU Campuses	19.2	14.6	.12	0	10	15	25	45	15,938	.7	.128	.051
Carnegie 10k+ Public	19.3	14.5	.09	0	10	15	25	45	27,127	.6	.191	.043
NSSE 2019 & 2020	21.4	14.6	.03	0	10	20	30	50	308,962	-1.4	.002	-.099
Top 50%	24.5	14.7	.04	5	15	20	35	55	109,964	-4.5	.000	-.308
Top 10%	28.1	15.5	.13	5	15	25	40	60	1,092	-8.2	.000	-.530
<b>Effective Teaching Practices</b>												
SF State (N = 923)	38.6	12.7	.42	20	28	40	48	60				
CSU Campuses	38.1	13.3	.11	16	28	40	48	60	15,334	.6	.194	.044
Carnegie 10k+ Public	37.9	13.3	.08	16	28	40	48	60	25,931	.7	.094	.056
NSSE 2019 & 2020	38.4	13.2	.02	16	28	40	48	60	297,207	.2	.648	.015
Top 50%	40.5	13.2	.04	20	32	40	52	60	124,489	-1.9	.000	-.143
Top 10%	42.3	14.1	.08	16	32	44	56	60	985	-3.6	.000	-.257
<b>Campus Environment</b>												
<b>Quality of Interactions</b>												
SF State (N = 789)	39.7	12.8	.46	16	32	40	50	60				
CSU Campuses	41.5	12.8	.11	18	34	43	50	60	13,242	-1.8	.000	-.141
Carnegie 10k+ Public	41.9	12.6	.09	18	34	44	50	60	22,129	-2.2	.000	-.177
NSSE 2019 & 2020	43.2	11.8	.02	22	36	44	52	60	792	-3.6	.000	-.301
Top 50%	45.2	11.2	.03	24	38	46	54	60	797	-5.5	.000	-.490
Top 10%	47.2	11.6	.07	25	40	50	58	60	826	-7.5	.000	-.644
<b>Supportive Environment</b>												
SF State (N = 856)	33.0	13.6	.47	13	23	33	40	60				
CSU Campuses	35.6	14.0	.12	13	25	35	45	60	14,103	-2.6	.000	-.183
Carnegie 10k+ Public	35.4	13.9	.09	13	25	35	45	60	23,504	-2.4	.000	-.170
NSSE 2019 & 2020	36.0	13.5	.03	15	28	38	45	60	272,901	-3.0	.000	-.223
Top 50%	37.9	13.1	.04	18	30	38	48	60	865	-4.9	.000	-.372
Top 10%	40.0	12.9	.08	18	33	40	50	60	909	-7.0	.000	-.544

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 <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SE <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Academic Challenge</b>												
<b>Higher-Order Learning</b>												
SF State (N = 1892)	40.3	13.5	.31	20	30	40	50	60				
CSU Campuses	40.4	13.8	.09	20	30	40	50	60	24,669	-.1	.719	-.009
Carnegie 10k+ Public	40.0	13.8	.07	20	30	40	50	60	37,096	.3	.403	.020
NSSE 2019 & 2020	40.1	13.5	.02	20	30	40	50	60	391,084	.2	.599	.012
Top 50%	41.7	13.4	.03	20	35	40	55	60	174,287	-1.5	.000	-.108
Top 10%	43.2	13.3	.06	20	35	40	55	60	43,811	-2.9	.000	-.219
<b>Reflective &amp; Integrative Learning</b>												
SF State (N = 1973)	39.4	12.3	.28	20	31	40	49	60				
CSU Campuses	38.7	12.5	.08	20	31	40	49	60	26,101	.6	.028	.052
Carnegie 10k+ Public	38.2	12.6	.07	17	29	37	49	60	39,499	1.2	.000	.096
NSSE 2019 & 2020	38.1	12.5	.02	17	29	37	46	60	414,578	1.3	.000	.105
Top 50%	39.8	12.2	.03	20	31	40	49	60	171,183	-.4	.103	-.037
Top 10%	41.8	12.0	.07	20	34	40	51	60	29,581	-2.4	.000	-.199
<b>Learning Strategies</b>												
SF State (N = 1848)	38.3	13.7	.32	20	27	40	47	60				
CSU Campuses	38.1	14.5	.10	13	27	40	47	60	2,209	.2	.555	.014
Carnegie 10k+ Public	38.6	14.4	.08	13	27	40	53	60	2,079	-.2	.453	-.017
NSSE 2019 & 2020	38.6	14.6	.02	13	27	40	53	60	1,868	-.3	.389	-.019
Top 50%	40.7	14.5	.03	20	33	40	53	60	1,887	-2.4	.000	-.163
Top 10%	42.7	14.4	.06	20	33	40	60	60	1,972	-4.3	.000	-.300
<b>Quantitative Reasoning</b>												
SF State (N = 1868)	30.8	16.0	.37	0	20	27	40	60				
CSU Campuses	30.2	16.2	.11	0	20	27	40	60	23,999	.6	.138	.036
Carnegie 10k+ Public	29.8	16.2	.09	0	20	27	40	60	35,927	1.0	.006	.065
NSSE 2019 & 2020	30.2	16.2	.03	0	20	27	40	60	379,200	.6	.132	.035
Top 50%	31.4	16.1	.03	7	20	33	40	60	244,264	-.6	.101	-.038
Top 10%	33.4	15.9	.07	7	20	33	40	60	49,671	-2.5	.000	-.161
<b>Learning with Peers</b>												
<b>Collaborative Learning</b>												
SF State (N = 2012)	34.8	13.5	.30	15	25	35	45	60				
CSU Campuses	35.2	13.8	.09	15	25	35	45	60	2,360	-.4	.211	-.028
Carnegie 10k+ Public	33.0	14.5	.07	10	20	35	45	60	2,255	1.8	.000	.127
NSSE 2019 & 2020	32.0	15.6	.02	5	20	30	45	60	2,036	2.8	.000	.182
Top 50%	36.0	14.0	.03	15	25	35	45	60	2,049	-1.1	.000	-.080
Top 10%	38.4	13.6	.07	15	30	40	50	60	41,435	-3.6	.000	-.262
<b>Discussions with Diverse Others</b>												
SF State (N = 1865)	40.5	14.9	.34	15	30	40	55	60				
CSU Campuses	40.7	16.0	.11	15	30	40	55	60	2,248	-.2	.510	-.015
Carnegie 10k+ Public	39.9	16.1	.09	10	30	40	55	60	2,114	.5	.122	.034
NSSE 2019 & 2020	40.2	15.9	.03	15	30	40	55	60	1,885	.3	.404	.018
Top 50%	42.1	15.5	.03	15	30	40	60	60	1,896	-1.6	.000	-.101
Top 10%	43.8	15.3	.06	20	35	45	60	60	1,986	-3.3	.000	-.215

#### Detailed Statistics: Seniors

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SE <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Experiences with Faculty</b>												
<b>Student-Faculty Interaction</b>												
SF State (N = 1925)	22.8	15.6	.35	0	10	20	35	55				
CSU Campuses	23.2	16.0	.10	0	10	20	35	55	2,273	-.4	.239	-.027
Carnegie 10k+ Public	23.0	16.0	.08	0	10	20	35	55	2,146	-.3	.489	-.016
NSSE 2019 & 2020	23.9	16.1	.03	0	10	20	35	55	1,944	-1.1	.001	-.071
Top 50%	29.7	15.9	.05	5	20	30	40	60	2,010	-6.9	.000	-.432
Top 10%	33.2	16.0	.13	10	20	35	45	60	2,452	-10.4	.000	-.656
<b>Effective Teaching Practices</b>												
SF State (N = 1915)	39.4	13.4	.31	20	28	40	48	60				
CSU Campuses	39.6	13.8	.09	16	32	40	52	60	24,684	-.3	.419	-.019
Carnegie 10k+ Public	39.9	14.0	.07	16	32	40	52	60	2,149	-.6	.072	-.041
NSSE 2019 & 2020	39.7	13.8	.02	16	32	40	52	60	390,634	-.4	.232	-.027
Top 50%	41.8	13.7	.04	20	32	40	52	60	149,021	-2.4	.000	-.177
Top 10%	43.7	13.4	.07	20	36	44	56	60	34,204	-4.4	.000	-.325
<b>Campus Environment</b>												
<b>Quality of Interactions</b>												
SF State (N = 1760)	40.7	12.3	.29	16	33	42	50	60				
CSU Campuses	42.7	12.4	.09	20	35	44	52	60	22,040	-2.0	.000	-.164
Carnegie 10k+ Public	42.7	12.4	.07	20	35	44	52	60	32,680	-2.0	.000	-.164
NSSE 2019 & 2020	43.1	12.1	.02	20	36	44	52	60	346,694	-2.4	.000	-.197
Top 50%	45.2	11.7	.03	24	38	48	54	60	1,795	-4.6	.000	-.390
Top 10%	47.4	12.0	.05	24	40	50	58	60	51,417	-6.7	.000	-.558
<b>Supportive Environment</b>												
SF State (N = 1822)	29.9	13.8	.32	8	20	30	40	55				
CSU Campuses	33.1	14.5	.10	10	23	33	43	60	2,180	-3.2	.000	-.225
Carnegie 10k+ Public	32.4	14.5	.08	8	23	33	43	60	2,052	-2.5	.000	-.177
NSSE 2019 & 2020	32.2	14.2	.02	10	23	33	40	60	365,627	-2.3	.000	-.165
Top 50%	34.6	14.0	.03	13	25	35	45	60	163,587	-4.7	.000	-.338
Top 10%	36.8	14.1	.08	13	28	38	48	60	30,783	-6.9	.000	-.492

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.