

California State Polytechnic University-Pomona



## **About This Report**

# **About Your Engagement Indicators Report**

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

Theme	Engagement Indicator
	Higher-Order Learning
Academic Challenge	Reflective & Integrative Learning
	Learning Strategies
	Quantitative Reasoning
Languiga with Dagg	Collaborative Learning
Learning with Peers	Discussions with Diverse Others
Experiences with Excultu	Student-Faculty Interaction
Experiences with Faculty	Effective Teaching Practices
	Quality of Interactions
Campus Environment	
	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).

Els vary more among students within an institution than between institutions, like many experiences and outcomes in higher education. As a result, focusing attention on average scores alone amounts to examining the tip of the iceberg. It's equally important to understand how student engagement varies within your institution. Score distributions indicate how El scores vary among your students and those in your comparison groups. The Report Builder 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

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.



#### Overview

## **California State Polytechnic University-Pomona**

## **Engagement Indicators: Overview**

**Engagement Indicator** 

Higher-Order Learning

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.

Your first-year students

compared with

Carnegie Class.

 $\nabla$ 

Your first-year students

compared with

Carnegie Class 2

Your first-year students

compared with NSSE 2019 & 2020

 $\nabla$ 

Use the following key:

**First-Year Students** 

Theme

- **Your students' average** was significantly higher (p < .05) with an effect size at least .3 in magnitude.
- $\triangle$  Your students' average was significantly higher (p < .05) with an effect size less than .3 in magnitude.
- -- No significant difference.
- $\nabla$  Your students' average was significantly lower (p < .05) with an effect size less than .3 in magnitude.
- **Vour students' average** was significantly lower (p < .05) with an effect size at least .3 in magnitude.

Academic	Reflective & Integrative Learning		$\nabla$	$\nabla$
Challenge	Learning Strategies	$\nabla$	$\nabla$	$\nabla$
	Quantitative Reasoning			
Learning with	Collaborative Learning	Δ		
Peers	Discussions with Diverse Others	$\nabla$		$\nabla$
Experiences	Student-Faculty Interaction	$\nabla$		$\nabla$
with Faculty	Effective Teaching Practices	$\nabla$	$\nabla$	$\nabla$
Campus	Quality of Interactions	•	$\nabla$	•
Environment	Supportive Environment	$\nabla$	$\nabla$	$\nabla$
niors		Your seniors compared with	Your seniors compared with	Your seniors compared with
Theme	Engagement Indicator	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020
	Higher-Order Learning	$\nabla$	$\nabla$	
		$\nabla$	$\nabla$	$\nabla$
	Reflective & Integrative Learning	<b>v</b>	<b>V</b>	•
	Reflective & Integrative Learning Learning Strategies	$\stackrel{V}{\nabla}$	$\overset{V}{ abla}$	$\overset{V}{\nabla}$
		∨ ∇ Δ	∨ ∇ Δ	<u>·</u>
Challenge	Learning Strategies	∨	∨	<u> </u>
Academic Challenge Learning with Peers	Learning Strategies  Quantitative Reasoning	<ul><li>∨</li><li>△</li><li>△</li></ul>	<ul><li>▼</li><li>△</li><li>△</li><li>△</li></ul>	<u> </u>
Challenge Learning with Peers	Learning Strategies Quantitative Reasoning Collaborative Learning	<ul> <li>▼</li> <li>△</li> <li>△</li> </ul>	<ul><li>▼</li><li>△</li><li>△</li><li>△</li></ul>	<u> </u>
Challenge Learning with	Learning Strategies Quantitative Reasoning  Collaborative Learning Discussions with Diverse Others	<ul> <li>▼</li> <li>△</li> <li>△</li> <li>✓</li> </ul>	<ul><li>▼</li><li>△</li><li>△</li><li>△</li><li>✓</li></ul>	<u> </u>
Challenge  Learning with Peers  Experiences	Learning Strategies Quantitative Reasoning  Collaborative Learning Discussions with Diverse Others  Student-Faculty Interaction	▲ ▲ △	<ul><li>▼</li><li>△</li><li>△</li><li>△</li><li>✓</li><li>▼</li></ul>	<ul> <li>▼</li> <li>△</li> <li>△</li> </ul>



# **Academic Challenge**

# **California State Polytechnic University-Pomona**

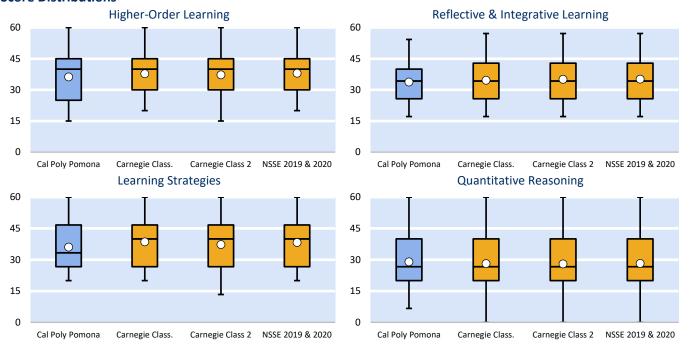
## **Academic Challenge: First-year students**

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	Cal Poly	Your first-year students compared with				
	Pomona	Carnegie Class.  Effect	Carnegie Class 2  Effect	NSSE 2019 & 2020 Effect		
Engagement Indicator	Mean	Mean size	Mean size	Mean size		
Higher-Order Learning	36.2	37.8 **12	37.308	38.1 ***14		
Reflective & Integrative Learning	33.8	34.707	35.1 **11	35.2 **12		
Learning Strategies	36.1	38.6 ***18	37.3 *09	38.3 ***16		
Quantitative Reasoning	29.0	28.2 .05	28.0 .07	28.2 .05		

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**

# **California State Polytechnic University-Pomona**

# **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.

		Percentage point difference <sup>a</sup> between your FY students and			
Higher-Order Learning	Cal Poly Pomona	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020	
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	-1	-7	
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	66	-3	-2	-4	
4d. Evaluating a point of view, decision, or information source	67	-3	-4	-2	
4e. Forming a new idea or understanding from various pieces of information	66	-3	-3	-3	
Reflective & Integrative Learning					
Percentage of students who responded that they "Very often" or "Often"					
2a. Combined ideas from different courses when completing assignments	48	-2	-3	-3	
2b. Connected your learning to societal problems or issues	48	-3	-4	-3	
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	47	-2	-5	-4	
2d. Examined the strengths and weaknesses of your own views on a topic or issue	60	-3	-2	-4	
Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	69	ļ -1	-3	-1	
2f. Learned something that changed the way you understand an issue or concept	70	+4	+1	+3	
2g. Connected ideas from your courses to your prior experiences and knowledge	71	-4	-3	-6	
Learning Strategies					
Percentage of students who responded that they "Very often" or "Often"					
9a. Identified key information from reading assignments	69	-6	-4	-5	
9b. Reviewed your notes after class	64	-4	-1	-2	
9c. Summarized what you learned in class or from course materials	58	-7	-2	-6	
Quantitative Reasoning					
Percentage of students who responded that they "Very often" or "Often"					
Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	54	+2	+3	+1	
Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	47	+5	+5	+6	
6c. Evaluated what others have concluded from numerical information	44	+4	+4	+4	

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**

## **California State Polytechnic University-Pomona**

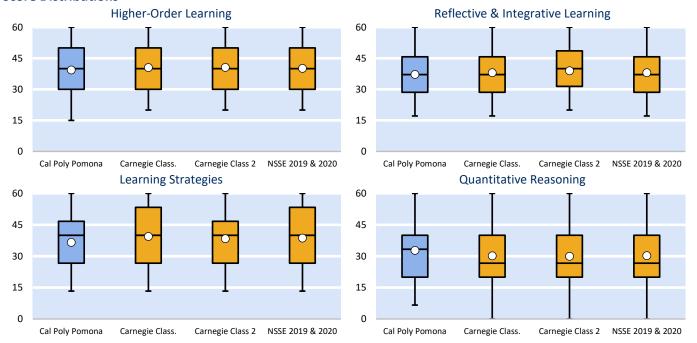
## **Academic Challenge: Seniors**

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	Cal Poly		Your seniors compared with	
	Pomona	Carnegie Class.  Effect	Carnegie Class 2  Effect	NSSE 2019 & 2020 Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Higher-Order Learning	39.3	40.5 **09	40.6 **09	40.106
Reflective & Integrative Learning	37.2	38.0 *07	38.9 ***14	38.1 *07
Learning Strategies	36.6	39.4 ***19	38.3 ***12	38.6 ***14
Quantitative Reasoning	32.7	30.2 *** .16	29.9 *** .17	30.2 *** .16

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**

# **California State Polytechnic University-Pomona**

# **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.

		Percentage point difference <sup>a</sup> between your seniors and			
Higher-Order Learning	Cal Poly Pomona	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020	
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	78	+1	+2	+1	
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	74	-2	-2	-2	
4d. Evaluating a point of view, decision, or information source	69	-5	-5	-2	
4e. Forming a new idea or understanding from various pieces of information	71	-3	-3	-2	
Reflective & Integrative Learning					
Percentage of students who responded that they "Very often" or "Often"					
2a. Combined ideas from different courses when completing assignments	73	+6	+2	+5	
2b. Connected your learning to societal problems or issues	56	-6	-8	-5	
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	45	-8	-11	-8	
2d. Examined the strengths and weaknesses of your own views on a topic or issue	63	-4	-3	-4	
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	70	-3	-5	-3	
2f. Learned something that changed the way you understand an issue or concept	70	-1	-3	-2	
2g. Connected ideas from your courses to your prior experiences and knowledge	80	-3	-3	-3	
Learning Strategies					
Percentage of students who responded that they "Very often" or "Often"					
9a. Identified key information from reading assignments	71	-8	-6	-7	
9b. Reviewed your notes after class	61	-5	-3	-2	
9c. Summarized what you learned in class or from course materials	58	-8	-4	-6	
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.)	64	+9	+10	+8	
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	49	+3	+4	+3	
6c. Evaluated what others have concluded from numerical information	54	+9	+8	+8	

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.



## **Learning with Peers**

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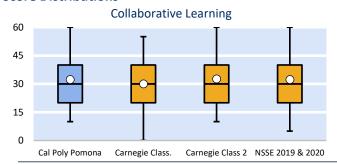
## **Learning with Peers: First-year students**

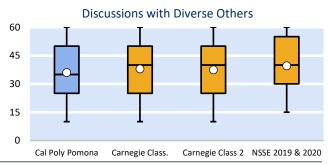
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons	Cal Poly	You	ur first-year students compared	with
	Pomona Carnegie Class.		Carnegie Class 2	NSSE 2019 & 2020
		Effect	Effect	Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Collaborative Learning	32.2	30.0 *** .15	32.603	32.3 .00
Discussions with Diverse Others	36.0	37.9 **11	37.408	39.5 ***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 < .01 (2-tailed).

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		Percentage point difference <sup>a</sup> between your FY students of			
Collaborative Learning	Cal Poly Pomona	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020	
Percentage of students who responded that they "Very often" or "Often"	%	curregie ciussi	carriegie class 2		
1e. Asked another student to help you understand course material	56	+8	+1	+3	
1f. Explained course material to one or more students	51	-0	-4	-6	
1g. Prepared for exams by discussing or working through course material with other students	47	+2	+0	-3	
1h. Worked with other students on course projects or assignments	61	+9	+2	+6	
Discussions with Diverse Others					
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	66	-2	-6	-5	
8b. People from an economic background other than your own	65	-3	-2	-6	
8c. People with religious beliefs other than your own	58	-5	-4	-9	
8d. People with political views other than your own	54	-7	+1	-10	

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.



## **Learning with Peers**

## **California State Polytechnic University-Pomona**

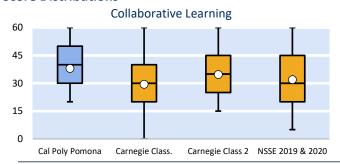
## **Learning with Peers: Seniors**

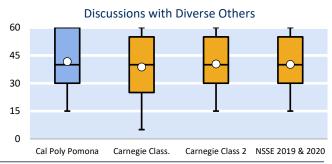
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons	Cal Poly		Your seniors compared with	
	Pomona	Carnegie Class.  Effect	Carnegie Class 2  Effect	NSSE 2019 & 2020 Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Collaborative Learning	38.0	29.4 *** .52	34.8 *** .23	32.0 *** .38
Discussions with Diverse Others	41.7	38.7 *** .18	40.5 * .08	40.2 ** .10

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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		Percentage point difference $^a$ between your seniors and			
	Cal Poly			NSSE 2019 &	
Collaborative Learning	Pomona	Carnegie Class.	Carnegie Class 2	2020	
Percentage of students who responded that they "Very often" or "Often"	%				
1e. Asked another student to help you understand course material	57	+19	+10	+14	
1f. Explained course material to one or more students	67	+16	+6	+10	
1g. Prepared for exams by discussing or working through course material with other students	58	+15	+7	+11	
1h. Worked with other students on course projects or assignments	80	+23	+8	+18	
Discussions with Diverse Others					
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	79	+9	+0	+7	
8b. People from an economic background other than your own	78	+9	+4	+5	
8c. People with religious beliefs other than your own	72	+7	+4	+4	
8d. People with political views other than your own	63	+1	+4	-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.



## **Experiences with Faculty**

# **California State Polytechnic University-Pomona**

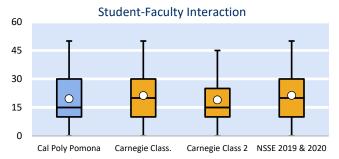
## **Experiences with Faculty: First-year students**

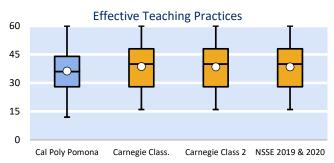
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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	Cal Poly	Cal Poly Your first-year students compared with				
·	Pomona	Carnegie Class.  Effect	Carnegie Class 2  Effect	NSSE 2019 & 2020 Effect		
Engagement Indicator	Mean	Mean size	Mean size	Mean size		
Student-Faculty Interaction	19.6	21.3 **12	19.0 .04	21.4 **12		
Effective Teaching Practices	36.3	38.7 ***18	38.5 ***17	38.5 ***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 < .01 (2-tailed).

#### **Score Distributions**





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#### **Performance on Indicator Items**

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		Percentage point	difference <sup>a</sup> between you	ır FY students and
Student-Faculty Interaction	Cal Poly Pomona	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020
Percentage of students who responded that they "Very often" or "Often"	%			
3a. Talked about career plans with a faculty member	33	-5	+0	-5
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	23	+2	+5	+2
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	26	F -0	+4	<b>├</b> -0
3d. Discussed your academic performance with a faculty member	29	-4	+2	-2
Effective Teaching Practices		·	*	
Percentage responding "Very much" or "Quite a bit" about how much instructors have				
5a. Clearly explained course goals and requirements	70	-7	-6	-7
5b. Taught course sessions in an organized way	66	-7	-4	-8
5c. Used examples or illustrations to explain difficult points	66	-7	-7	-8
5d. Provided feedback on a draft or work in progress	61	-4	-5	-2
5e. Provided prompt and detailed feedback on tests or completed assignments	59	-3	-1	-1

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.



# **Experiences with Faculty**

# **California State Polytechnic University-Pomona**

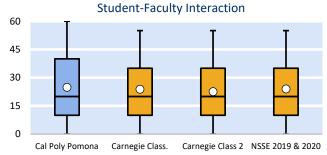
## **Experiences with Faculty: Seniors**

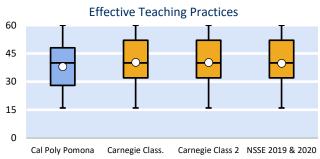
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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	Cal Poly		Your seniors compared with									
	Pomona	Carnegie Cl	ass. ffect	Carnegie	Class 2 Effect	NSSE 2019	9 & 2020 Effect					
Engagement Indicator	Mean	Mean s	size	Mean	size	Mean	size					
Student-Faculty Interaction	24.8	23.8 .	.06	22.5 ***	.14	23.9	.05					
Effective Teaching Practices	37.9	40.2 ***	.16	40.2 ***	16	39.7 ***	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 < .01 (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.

		Percentage point difference <sup>a</sup> between your se									
Student-Faculty Interaction	Cal Poly Pomona	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020							
Percentage of students who responded that they "Very often" or "Often"	%										
3a. Talked about career plans with a faculty member	39	-5	-0	-5							
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	33	+7	+9	+5							
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	35	+4	+6	+3							
3d. Discussed your academic performance with a faculty member	36	-2	+3	+2							
Effective Teaching Practices											
Percentage responding "Very much" or "Quite a bit" about how much instructors have											
5a. Clearly explained course goals and requirements	77	-4	-4	-3							
5b. Taught course sessions in an organized way	71	-5	-5	-6							
5c. Used examples or illustrations to explain difficult points	76	-1	-2	-1							
5d. Provided feedback on a draft or work in progress	59	-6	-6	-3							
5e. Provided prompt and detailed feedback on tests or completed assignments	58	-8	-5	-6							

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**

# **California State Polytechnic University-Pomona**

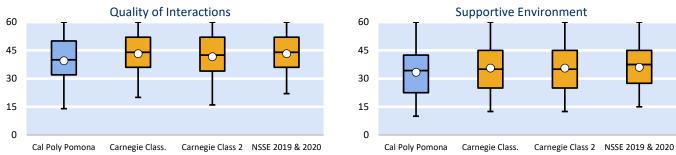
## **Campus Environment: First-year students**

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	Cal Poly	Your first-year students compared with									
	Pomona	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020							
		Effect	Effect	Effect							
Engagement Indicator	Mean	Mean size	Mean size	Mean size							
Quality of Interactions	39.5	43.3 ***30	41.6 ***16	43.2 ***31							
Supportive Environment	33.4	35.6 ***16	35.6 ***15	36.0 ***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.

	Percentage point difference <sup>a</sup> between									
Quality of Interactions	Cal Poly Pomona	Carnegie Class.	Carnegie Class 2	NSSE 2019 & 2020						
Percentage rating their interactions a 6 or 7 (on a scale from I="Poor" to 7="Excellent") with	%									
13a. Students	46	-6	-5	-7						
L3b. Academic advisors	40	-15	-10	-14						
13c. Faculty	37	-16	-9	-16						
L3d. Student services staff (career services, student activities, housing, etc.)	40	-10	-6	-8						
L3e. Other administrative staff and offices (registrar, financial aid, etc.)	37	-11	-8	-9						
Supportive Environment										
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized										
L4b. Providing support to help students succeed academically	67	-8	-6	-8						
14c. Using learning support services (tutoring services, writing center, etc.)	70	-7	-5	-7						
L4d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	62	+1	-3	+1						
L4e. Providing opportunities to be involved socially	65	-3	-2	-6						
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	66	-2	-3	-3						
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	46	+1	-2	+4						
L4h. Attending campus activities and events (performing arts, athletic events, etc.)	51	-6	-3	-12						
14i. Attending events that address important social, economic, or political issues	44	-2	-3	-4						

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**

## **California State Polytechnic University-Pomona**

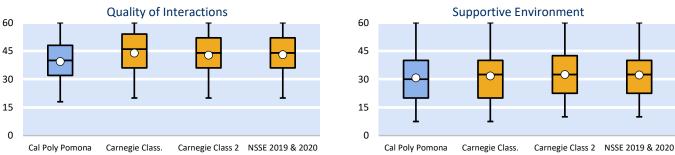
## **Campus Environment: Seniors**

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	Cal Poly	Your seniors compared with									
	Pomona	Carnegie Class.  Effect	Carnegie Class 2  Effect	NSSE 2019 & 2020 Effect							
Engagement Indicator	Mean	Mean size	Mean size	Mean size							
Quality of Interactions	39.4	43.9 ***37	42.8 ***28	43.1 ***30							
Supportive Environment	30.7	31.7 *07	32.5 ***12	32.2 **11							

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.

		Percentage poir	nt difference <sup>a</sup> between y	our seniors and
Quality of Interactions	Cal Poly	Carragia Class	Camaria Class 2	NSSE 2019 &
Quality of Interactions	Pomona	Carnegie Class.	Carnegie Class 2	2020
Percentage rating their interactions a 6 or 7 (on a scale from $l="Poor"$ to $7="Excellent"$ ) with	%			
13a. Students	59	+0	-1	+1
L3b. Academic advisors	39	-18	-11	-14
13c. Faculty	43	-18	-13	-15
L3d. Student services staff (career services, student activities, housing, etc.)	35	-14	-10	-9
13e. Other administrative staff and offices (registrar, financial aid, etc.)	32	-18	-13	-13
Supportive Environment				•
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized				
L4b. Providing support to help students succeed academically	63	-8	-5	-7
14c. Using learning support services (tutoring services, writing center, etc.)	58	-10	-6	-8
L4d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	58	+4	-2	+3
L4e. Providing opportunities to be involved socially	60	+1	-3	-3
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	58	-1	-6	-1
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	36	+1	+0	+4
L4h. Attending campus activities and events (performing arts, athletic events, etc.)	44	i: -o	-2	-8
14i. Attending events that address important social, economic, or political issues	35	-2	-6	-5

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 High-Performing Institutions California State Polytechnic University-Pomona

## 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<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 ( $\checkmark$ ) signifies those comparisons where your average score was at least comparable 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		Your first-year students compared with								
		Cal Poly Pomona	NSSE 1	Гор 50%		NSSE 1	Гор 10%				
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓			
	Higher-Order Learning	36.2	39.3 ***	24		41.4 ***	40				
Academic	Reflective and Integrative Learning	33.8	36.7 ***	25		39.0 ***	44				
Challenge	Learning Strategies	36.1	39.9 ***	28		42.3 ***	44				
	Quantitative Reasoning	29.0	29.4	03	✓	31.4 ***	15				
Learning	Collaborative Learning	32.2	35.2 ***	21		37.4 ***	38				
with Peers	Discussions with Diverse Others	36.0	41.5 ***	36		43.6 ***	52				
Experiences	Student-Faculty Interaction	19.6	24.5 ***	33		28.1 ***	55				
with Faculty	Effective Teaching Practices	36.3	40.5 ***	32		42.3 ***	43				
Campus	Quality of Interactions	39.5	45.2 ***	50		47.2 ***	66				
Environment	Supportive Environment	33.4	37.9 ***	34		40.0 ***	51				
Seniors			Your seniors compared with								
		Cal Poly Pomona	NSSE 1	Гор 50%		NSSE 1	Top 10%				
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓			
	Higher-Order Learning	39.3	41.7 ***	18		43.2 ***	29				
Academic	Reflective and Integrative Learning	37.2	39.8 ***	22		41.8 ***	38				
Challenge	Learning Strategies	36.6	40.7 ***	28		42.7 ***	42				
	Quantitative Reasoning	32.7	31.4 *	.08	✓	33.4	04	✓			
Learning	Collaborative Learning	38.0	35.9 ***	.15	✓	38.4	03	✓			
with Peers	Discussions with Diverse Others	41.7	42.1	02	✓	43.8 ***	13				
Experiences	Student-Faculty Interaction	24.8	29.7 ***	31		33.2 ***	53				
with Faculty	Effective Teaching Practices	37.9	41.8 ***	28		43.7 ***	43				
Campus	Quality of Interactions	39.4	45.2 ***	50		47.4 ***	66				

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 < .01 (2-tailed).

30.7

34.6 \*\*\*

-.28

**Environment** Supportive Environment

36.8 \*\*\*

- 43

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<sup>a</sup> California State Polytechnic University-Pomona

# **Detailed Statistics: First-Year Students**

	Mea	ın statisti	CS	Percentile <sup>d</sup> scores				Comparison results				
									Deg. of	Mean		Effect
	Mean	SD <sup>b</sup>	SE <sup>c</sup>	5th	25th	50th	75th	95th	freedom <sup>e</sup>	diff.	Sig. <sup>f</sup>	size <sup>g</sup>
Academic Challenge												
Higher-Order Learning												
Cal Poly Pomona $(N = 616)$	36.2	13.8	.56	15	25	40	45	60				
Carnegie Class.	37.8	13.4	.08	20	30	40	45	60	32,126	-1.5	.004	116
Carnegie Class 2	37.3	13.4	.16	15	30	40	45	60	7,317	-1.1	.060	079
NSSE 2019 & 2020	38.1	13.2	.03	20	30	40	45	60	217,827	-1.8	.001	140
Top 50%	39.3	13.1	.04	20	30	40	50	60	621	-3.1	.000	238
Top 10%	41.4	12.8	.08	20	35	40	50	60	643	-5.2	.000	402
Reflective & Integrative Learning	g											
Cal Poly Pomona $(N = 659)$	33.8	11.6	.45	17	26	34	40	54				
Carnegie Class.	34.7	12.1	.07	17	26	34	43	57	35,081	9	.061	074
Carnegie Class 2	35.1	12.0	.14	17	26	34	43	57	7,899	-1.3	.008	109
NSSE 2019 & 2020	35.2	12.0	.02	17	26	34	43	57	235,740	-1.4	.003	116
Top 50%	36.7	11.8	.03	17	29	37	46	57	121,026	-2.9	.000	247
Top 10%	39.0	11.7	.09	20	31	40	49	60	19,559	-5.2	.000	443
Learning Strategies												
Cal Poly Pomona (N = 591)	36.1	13.9	.57	20	27	33	47	60				
Carnegie Class.	38.6	13.9	.08	20	27	40	47	60	29,979	-2.5	.000	181
Carnegie Class 2	37.3	13.6	.17	13	27	40	47	60	6,879	-1.2	.036	090
NSSE 2019 & 2020	38.3	13.8	.03	20	27	40	47	60	205,912	-2.2	.000	160
Top 50%	39.9	13.7	.04	20	33	40	53	60	105,071	-3.8	.000	279
Top 10%	42.3	14.1	.09	20	33	40	53	60	23,609	-6.2	.000	442
Quantitative Reasoning												
Cal Poly Pomona (N = 599)	29.0	15.0	.61	7	20	27	40	60				
Carnegie Class.	28.2	15.4	.09	0	20	27	40	60	30,629	.8	.186	.055
Carnegie Class 2	28.0	15.3	.19	0	20	27	40	60	6,999	1.0	.112	.068
NSSE 2019 & 2020	28.2	15.3	.03	0	20	27	40	60	209,397	.8	.197	.053
Top 50%	29.4	15.2	.04	7	20	27	40	60	135,885	4	.503	027
Top 10%	31.4	15.3	.09	7	20	33	40	60	29,265	-2.4	.000	155
Learning with Peers												
Collaborative Learning												
Cal Poly Pomona (N = 689)	32.2	13.3	.51	10	20	30	40	60				
Carnegie Class.	30.0	15.3	.08	0	20	30	40	55	721	2.3	.000	.150
Carnegie Class 2	32.6	13.6	.15	10	20	30	40	60	8,485	3	.523	025
NSSE 2019 & 2020	32.3	14.7	.03	5	20	30	40	60	692	.0	.968	001
Top 50%	35.2	13.7	.03	15	25	35	45	60	157,383	-2.9	.000	214
Top 10%	37.4	13.5	.07	15	30	40	45	60	33,498	-5.2	.000	381
Discussions with Diverse Others												
Cal Poly Pomona (N = 587)	36.0	16.0	.66	10	25	35	50	60				
Carnegie Class.	37.9	16.5	.10	10	25	40	50	60	30,264	-1.9	.006	114
Carnegie Class 2	37.4	16.2	.20	10	25	40	50	60	6,919	-1.4	.050	085
NSSE 2019 & 2020	39.5	15.6	.03	15	30	40	55	60	207,419	-3.5	.000	224
												362
Top 10%	43.6	14.5	.09	20	35	45	60	60	606	-7.6	.000	522
Top 50%	41.5	15.0	.04	20	30	40	55	60	590	-5.4	.000	



# Detailed Statistics<sup>a</sup> California State Polytechnic University-Pomona

## **Detailed Statistics: First-Year Students**

	Mean statistics				Perce	ntile <sup>d</sup> sco	ores		Comparison results			
									Deg. of	Mean		Effect
	Mean	SD <sup>b</sup>	SE <sup>c</sup>	5th	25th	50th	75th	95th	freedom <sup>e</sup>	diff.	Sig. <sup>f</sup>	size <sup>g</sup>
Experiences with Faculty												
Student-Faculty Interaction												
Cal Poly Pomona $(N = 643)$	19.6	15.5	.61	0	10	15	30	50				
Carnegie Class.	21.3	14.7	.08	0	10	20	30	50	33,398	-1.7	.003	117
Carnegie Class 2	19.0	14.6	.17	0	10	15	25	45	750	.6	.356	.040
NSSE 2019 & 2020	21.4	14.6	.03	0	10	20	30	50	645	-1.8	.003	124
Top 50%	24.5	14.7	.05	5	15	20	35	55	80,236	-4.9	.000	334
Top 10%	28.1	15.5	.15	5	15	25	40	60	11,164	-8.5	.000	553
Effective Teaching Practices												
Cal Poly Pomona $(N = 620)$	36.3	13.9	.56	12	28	36	44	60				
Carnegie Class.	38.7	13.5	.08	16	28	40	48	60	31,884	-2.4	.000	178
Carnegie Class 2	38.5	13.4	.16	16	28	40	48	60	7,261	-2.2	.000	165
NSSE 2019 & 2020	38.5	13.2	.03	16	28	40	48	60	217,004	-2.2	.000	166
Top 50%	40.5	13.2	.04	20	32	40	52	60	90,840	-4.3	.000	323
Top 10%	42.3	14.1	.09	16	32	44	56	60	25,472	-6.0	.000	425
Campus Environment												
Quality of Interactions												
Cal Poly Pomona $(N = 523)$	39.5	13.1	.57	14	32	40	50	60				
Carnegie Class.	43.3	12.3	.07	20	36	44	52	60	27,483	-3.7	.000	304
Carnegie Class 2	41.6	13.1	.17	16	34	43	52	60	6,183	-2.1	.001	159
NSSE 2019 & 2020	43.2	11.8	.03	22	36	44	52	60	524	-3.7	.000	314
Top 50%	45.2	11.2	.04	24	38	46	54	60	527	-5.6	.000	504
Top 10%	47.2	11.6	.08	25	40	50	58	60	544	-7.7	.000	657
Supportive Environment												
Cal Poly Pomona $(N = 568)$	33.4	13.9	.58	10	23	34	43	60				
Carnegie Class.	35.6	13.8	.08	13	25	35	45	60	28,842	-2.2	.000	160
Carnegie Class 2	35.6	14.2	.18	13	25	35	45	60	6,617	-2.2	.000	154
NSSE 2019 & 2020	36.0	13.5	.03	15	28	38	45	60	199,257	-2.6	.000	193
Top 50%	37.9	13.1	.04	18	30	38	48	60	573	-4.5	.000	342
Top 10%	40.0	12.9	.10	18	33	40	50	60	598	-6.6	.000	513

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

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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  $\pm$ 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<sup>a</sup> California State Polytechnic University-Pomona

**Detailed Statistics: Seniors** 

	Mea	ın statisti	CS	Percentile <sup>d</sup> scores				Comparison results				
<del>-</del>		SD <sup>b</sup>	SE <sup>c</sup>		05:1			0.5.1	Deg. of	Mean	s: f	Effect
Academic Challenge	Mean	SD	SE	5th	25th	50th	75th	95th	freedom <sup>e</sup>	diff.	Sig. <sup>f</sup>	size <sup>g</sup>
Higher-Order Learning												
Cal Poly Pomona (N = 939)	39.3	13.7	.45	15	30	40	50	60				
Carnegie Class.	40.5	13.6	.06	20	30	40	50	60	47,905	-1.2	.007	089
Carnegie Class 2	40.6	13.7	.13	20	30	40	50	60	12,322	-1.2	.007	092
NSSE 2019 & 2020	40.1	13.7	.03	20	30	40	50	60	287,669	-1.3	.081	057
Top 50%	41.7	13.4	.03	20	35	40	55	60	127,747	-2.4	.000	178
Top 10%	43.2	13.3	.08	20	35	40	55	60	31,773	-3.8	.000	289
Reflective & Integrative Learning												
Cal Poly Pomona (N = 995)	37.2	12.8	.40	17	29	37	46	60				
Carnegie Class.	38.0	12.6	.06	17	29	37	46	60	50,967	9	.032	069
Carnegie Class 2	38.9	12.4	.11	20	31	40	49	60	13,048	-1.8	.000	142
NSSE 2019 & 2020	38.1	12.4	.02	17	29	37	46	60	304,951	9	.025	071
Top 50%	39.8	12.2	.03	20	31	40	49	60	126,912	-2.6	.000	216
Top 10%	41.8	12.0	.08	20	34	40	51	60	21,302	-4.6	.000	380
Learning Strategies												
Cal Poly Pomona (N = 912)	36.6	14.9	.49	13	27	40	47	60				
Carnegie Class.	39.4	14.6	.07	13	27	40	53	60	45,761	-2.8	.000	192
Carnegie Class 2	38.3	14.3	.14	13	27	40	47	60	1,058	-1.8	.001	122
NSSE 2019 & 2020	38.6	14.6	.03	13	27	40	53	60	275,458	-2.0	.000	139
Top 50%	40.7	14.5	.04	20	33	40	53	60	922	-4.1	.000	282
Top 10%	42.7	14.4	.07	20	33	40	60	60	46,133	-6.1	.000	421
Quantitative Reasoning												
Cal Poly Pomona $(N = 917)$	32.7	15.9	.52	7	20	33	40	60				
Carnegie Class.	30.2	16.2	.08	0	20	27	40	60	46,394	2.6	.000	.158
Carnegie Class 2	29.9	16.2	.15	0	20	27	40	60	11,967	2.8	.000	.174
NSSE 2019 & 2020	30.2	16.2	.03	0	20	27	40	60	278,928	2.5	.000	.155
Top 50%	31.4	16.1	.04	0	20	33	40	60	179,673	1.3	.012	.083
Top 10%	33.4	15.9	.09	7	20	33	40	60	35,162	6	.238	039
Learning with Peers												
Collaborative Learning												
Cal Poly Pomona $(N = 1029)$	38.0	13.7	.43	20	30	40	50	60				
Carnegie Class.	29.4	16.5	.07	0	20	30	40	60	1,087	8.5	.000	.520
Carnegie Class 2	34.8	13.7	.12	15	25	35	45	60	13,585	3.2	.000	.234
NSSE 2019 & 2020	32.0	15.6	.03	5	20	30	45	60	1,037	6.0	.000	.384
Top 50%	35.9	14.0	.03	15	25	35	45	60	166,704	2.1	.000	.147
Top 10%	38.4	13.6	.08	15	30	40	50	60	28,998	4	.321	031
Discussions with Diverse Others												-
Cal Poly Pomona $(N = 918)$	41.7	15.8	.52	15	30	40	60	60				
Carnegie Class.	38.7	16.8	.08	5	25	40	55	60	960	3.0	.000	.178
Carnegie Class 2	40.5	15.8	.15	15	30	40	55	60	11,891	1.3	.018	.081
NSSE 2019 & 2020	40.2	15.9	.03	15	30	40	55	60	276,651	1.5	.004	.096
Top 50%	42.1	15.5	.04	15	30	40	60	60	178,606	3	.536	020
Top 10%	43.8	15.3	.07	20	35	45	60	60	45,752	-2.0	.000	133



# Detailed Statistics<sup>a</sup> California State Polytechnic University-Pomona

## **Detailed Statistics: Seniors**

	Mea	n statistic	CS		Percentile <sup>d</sup> scores					Comparison results			
									Deg. of	Mean		Effect	
	Mean	SD <sup>b</sup>	SE <sup>c</sup>	5th	25th	50th	75th	95th	freedom <sup>e</sup>	diff.	Sig. <sup>f</sup>	size <sup>g</sup>	
Experiences with Faculty													
Student-Faculty Interaction													
Cal Poly Pomona $(N = 967)$	24.8	17.2	.55	0	10	20	40	60					
Carnegie Class.	23.8	15.9	.07	0	10	20	35	55	1,000	1.0	.085	.060	
Carnegie Class 2	22.5	15.7	.15	0	10	20	35	55	1,104	2.2	.000	.141	
NSSE 2019 & 2020	23.9	16.1	.03	0	10	20	35	55	972	.9	.123	.053	
Top 50%	29.7	15.9	.06	5	20	30	40	60	990	-4.9	.000	307	
Top 10%	33.2	16.0	.15	10	20	35	45	60	1,112	-8.5	.000	526	
Effective Teaching Practices													
Cal Poly Pomona $(N = 947)$	37.9	13.6	.44	16	28	40	48	60					
Carnegie Class.	40.2	14.1	.07	16	32	40	52	60	47,860	-2.3	.000	162	
Carnegie Class 2	40.2	13.7	.13	16	32	40	52	60	12,332	-2.3	.000	165	
NSSE 2019 & 2020	39.7	13.8	.03	16	32	40	52	60	287,338	-1.8	.000	132	
Top 50%	41.8	13.7	.04	20	32	40	52	60	109,153	-3.9	.000	283	
Top 10%	43.7	13.4	.09	20	36	44	56	60	24,697	-5.8	.000	432	
Campus Environment													
Quality of Interactions													
Cal Poly Pomona $(N = 849)$	39.4	12.5	.43	18	32	40	48	60					
Carnegie Class.	43.9	12.4	.06	20	36	46	54	60	41,448	-4.6	.000	368	
Carnegie Class 2	42.8	12.4	.12	20	36	44	52	60	10,947	-3.4	.000	277	
NSSE 2019 & 2020	43.1	12.1	.02	20	36	44	52	60	255,018	-3.7	.000	304	
Top 50%	45.2	11.7	.03	24	38	48	54	60	859	-5.9	.000	501	
Top 10%	47.4	12.0	.06	24	40	50	58	60	37,375	-8.0	.000	665	
Supportive Environment													
Cal Poly Pomona (N = 891)	30.7	14.5	.49	8	20	30	40	60					
Carnegie Class.	31.7	14.4	.07	8	20	33	40	60	44,424	-1.0	.046	067	
Carnegie Class 2	32.5	14.5	.14	10	23	33	43	60	11,481	-1.8	.001	121	
NSSE 2019 & 2020	32.2	14.2	.03	10	23	33	40	60	268,944	-1.5	.002	106	
Top 50%	34.6	14.0	.04	13	25	35	45	60	119,880	-3.9	.000	278	
Top 10%	36.8	14.1	.10	13	28	38	48	60	22,194	-6.1	.000	431	

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

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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  $\pm$ 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.