



NSSE 2022

Engagement Indicators

West Texas A&M University

About Your Engagement Indicators Report

Engagement Indicators (EIs) provide a useful summary of the detailed information contained in your students' NSSE responses. By combining responses to related NSSE questions, each EI offers valuable information about a distinct aspect of student engagement. Ten indicators, based on three to eight survey questions each (a total of 47 survey questions), are organized into four broad themes as shown at right. The specific items within each EI are listed below, starting on page 5.

Theme	Engagement Indicator
<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 2021 and 2022 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. Your NSSE Tableau dashboards and Report Builder (released in the fall) offer valuable perspectives on internal variation and help you investigate your students' engagement in depth.

How Engagement Indicators are Computed

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

For more information on EIs and their psychometric properties, refer to the NSSE website: nsse.indiana.edu

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

Engagement Indicators: Overview

Engagement Indicators are summary measures based on sets of NSSE questions examining key dimensions of student engagement. The ten indicators are organized within four broad themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores for your students with those in your comparison groups. Use the following key:

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

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

First-Year Students

Theme	Engagement Indicator	Your first-year students compared with Southwest Public	Your first-year students compared with Carnegie Class	Your first-year students compared with NSSE 2021 & 2022
	Higher-Order Learning	--		
Academic Challenge	Reflective & Integrative Learning	--	--	
	Learning Strategies	--	--	--
	Quantitative Reasoning	--	--	--
	Collaborative Learning		▲	
Learning with Peers	Discussions with Diverse Others	--	--	--
	Student-Faculty Interaction		--	--
Experiences with Faculty	Effective Teaching Practices	--	--	--
	Quality of Interactions	▲		▲
Campus Environment	Supportive Environment	--	--	--

Seniors

Theme	Engagement Indicator	Your seniors compared with Southwest Public	Your seniors compared with Carnegie Class	Your seniors compared with NSSE 2021 & 2022
	Higher-Order Learning	--	--	--
Academic Challenge	Reflective & Integrative Learning	--	--	--
	Learning Strategies	--	--	--
	Quantitative Reasoning	--	--	--
	Collaborative Learning	--		--
Learning with Peers	Discussions with Diverse Others	--		--
	Student-Faculty Interaction		--	--
Experiences with Faculty	Effective Teaching Practices	--	--	--
	Quality of Interactions			
Campus Environment	Supportive Environment	--		--

Academic Challenge: First-year students

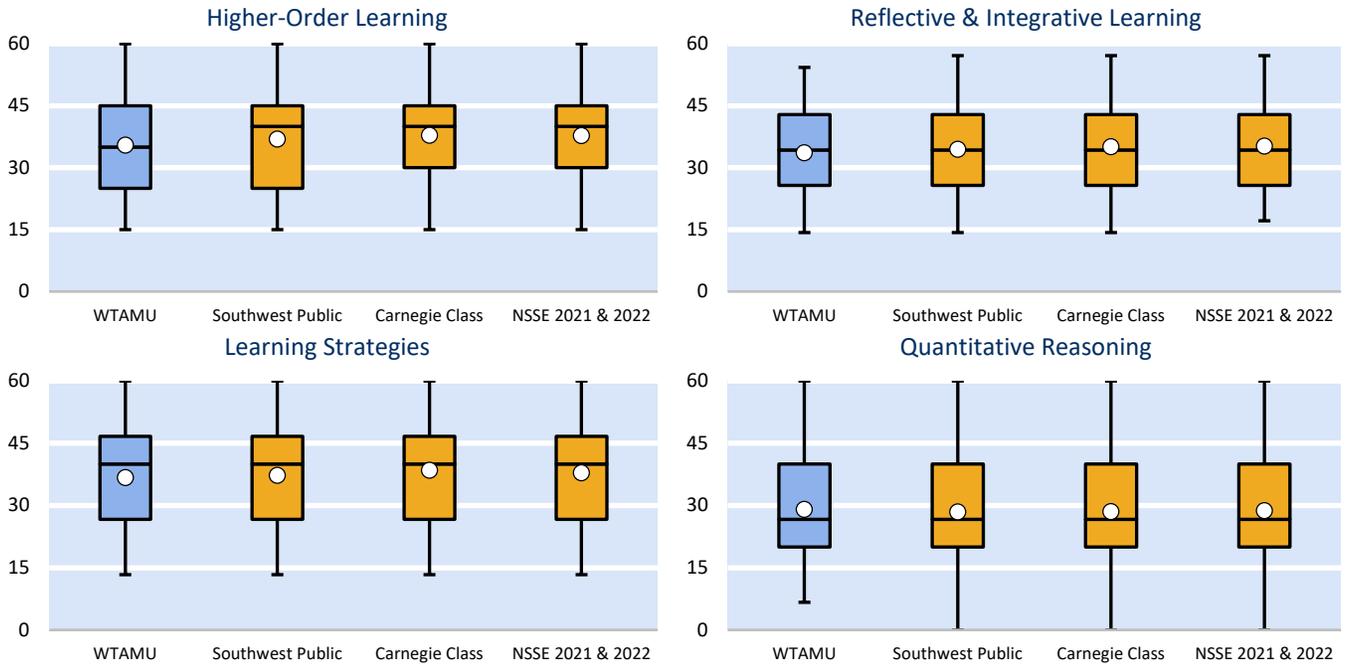
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*, *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	WTAMU Mean	Your first-year students compared with					
		Southwest Public		Carnegie Class		NSSE 2021 & 2022	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	35.5	37.0	-.11	37.9 **	-.18	37.8 **	-.17
Reflective & Integrative Learning	33.7	34.5	-.06	35.1	-.12	35.3 *	-.13
Learning Strategies	36.7	37.3	-.04	38.5	-.12	37.9	-.08
Quantitative Reasoning	29.1	28.4	.04	28.5	.03	28.7	.02

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

Score Distributions



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.

	WTAMU	Percentage point difference ^a between your FY students and		
		Southwest Public	Carnegie Class	NSSE 2021 & 2022
Higher-Order Learning				
<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	64	-1	-4	-4
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	62	-3	-6	-6
4d. Evaluating a point of view, decision, or information source	62	-6	-9	-7
4e. Forming a new idea or understanding from various pieces of information	65	-3	-5	-4
Reflective & Integrative Learning				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
2a. Combined ideas from different courses when completing assignments	52	+5	+3	+2
2b. Connected your learning to societal problems or issues	42	-7	-10	-10
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	48	-3	-4	-6
2d. Examined the strengths and weaknesses of your own views on a topic or issue	59	-4	-5	-5
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	70	+0	-1	-1
2f. Learned something that changed the way you understand an issue or concept	65	+0	-2	-1
2g. Connected ideas from your courses to your prior experiences and knowledge	73	-1	-4	-4
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	63	-6	-11	-9
9b. Reviewed your notes after class	69	+3	+2	+4
9c. Summarized what you learned in class or from course materials	62	-1	-4	-3
Quantitative Reasoning				
<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	+2	+1
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	42	-0	-1	-1
6c. Evaluated what others have concluded from numerical information	37	-2	-3	-4

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

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

Academic Challenge: Seniors

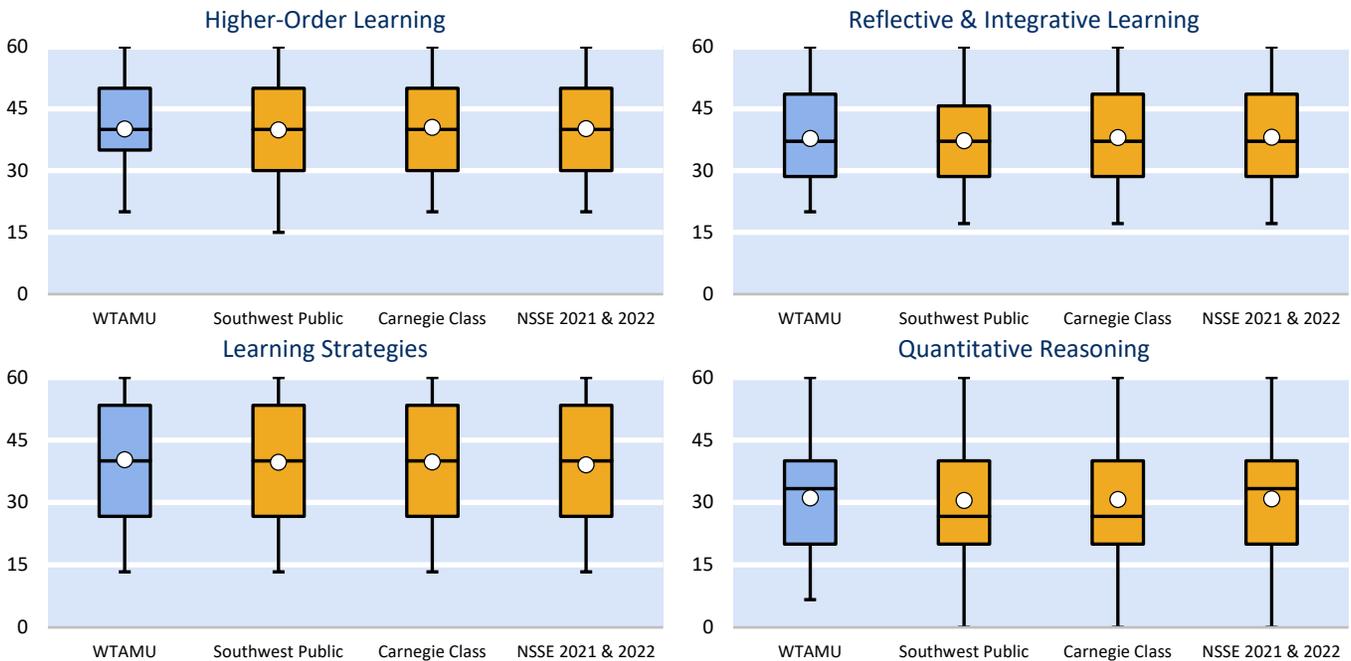
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*,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

Mean Comparisons

Engagement Indicator	WTAMU Mean	Your seniors compared with					
		Southwest Public		Carnegie Class		NSSE 2021 & 2022	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	40.2	39.9	.02	40.5	-.02	40.2	.00
Reflective & Integrative Learning	37.8	37.3	.04	38.1	-.02	38.1	-.03
Learning Strategies	40.2	39.6	.04	39.7	.03	39.0	.08
Quantitative Reasoning	31.0	30.5	.03	30.7	.02	30.9	.01

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.

	WTAMU	Percentage point difference ^a between your seniors and		
		Southwest Public	Carnegie Class	NSSE 2021 & 2022
Higher-Order Learning				
<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	77	+2	-0	+0
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	76	+1	+0	+1
4d. Evaluating a point of view, decision, or information source	74	+3	+1	+2
4e. Forming a new idea or understanding from various pieces of information	73	+0	-1	-0
Reflective & Integrative Learning				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
2a. Combined ideas from different courses when completing assignments	65	+2	+0	-1
2b. Connected your learning to societal problems or issues	62	+4	+0	+1
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	48	-2	-6	-6
2d. Examined the strengths and weaknesses of your own views on a topic or issue	65	-0	-1	-1
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	70	-2	-3	-3
2f. Learned something that changed the way you understand an issue or concept	72	+2	+1	+1
2g. Connected ideas from your courses to your prior experiences and knowledge	84	+3	+1	+1
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	76	+0	-2	-0
9b. Reviewed your notes after class	69	+1	+2	+4
9c. Summarized what you learned in class or from course materials	70	+2	+1	+3
Quantitative Reasoning				
<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.)	55	-1	-1	-1
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	52	+5	+4	+4
6c. Evaluated what others have concluded from numerical information	45	+0	+0	-1

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

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

Learning with Peers: First-year students

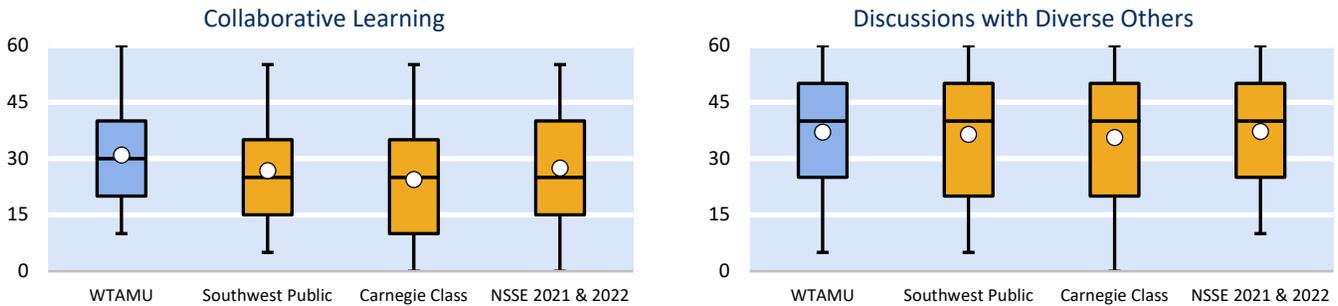
Collaborating with others in mastering difficult material and interacting with peers from different backgrounds prepares students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons

Engagement Indicator	WTAMU Mean	Your first-year students compared with					
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		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	30.9	26.7 ***	.29	24.4 ***	.41	27.5 ***	.23
Discussions with Diverse Others	37.0	36.4	.03	35.6	.08	37.1	-.01

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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Performance on Indicator Items

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Collaborative Learning	WTAMU %	Percentage point difference ^a between your FY students and		
		Southwest Public	Carnegie Class	NSSE 2021 & 2022
Percentage of students who responded that they "Very often" or "Often"...				
1b. Asked another student to help you understand course material	50	+9	+14	+8
1c. Explained course material to one or more students	53	+12	+15	+9
1d. Prepared for exams by discussing or working through course material with other students	45	+10	+12	+8
1e. Worked with other students on course projects or assignments	47	+5	+7	+2
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	+1	+2	-0
8b. People from an economic background other than your own	68	+4	+5	+2
8c. People with religious beliefs other than your own	60	-0	+1	-2
8d. People with political views other than your own	61	+4	+6	+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.

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Learning with Peers: Seniors

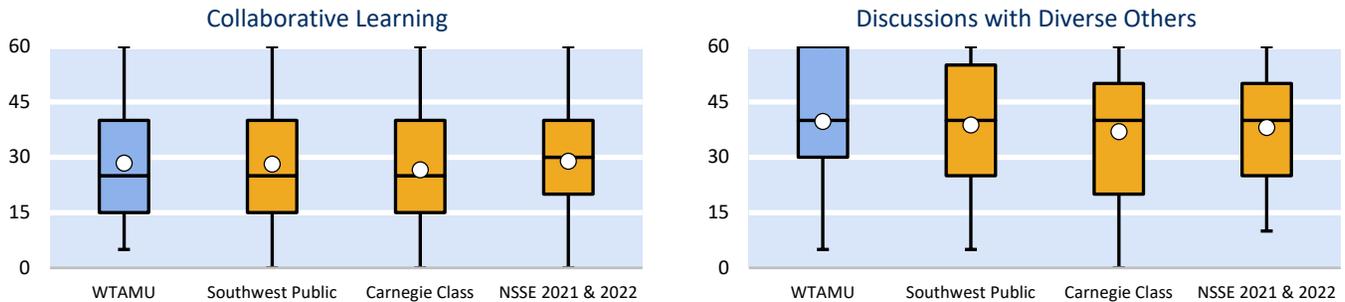
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Mean Comparisons

Engagement Indicator	WTAMU Mean	Your seniors compared with					
		Southwest Public		Carnegie Class		NSSE 2021 & 2022	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	28.4	28.2	.01	26.6 *	.11	29.0	-.03
Discussions with Diverse Others	39.7	38.8	.05	37.0 **	.16	38.1	.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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	WTAMU %	Percentage point difference ^a between your seniors and		
		Southwest Public	Carnegie Class	NSSE 2021 & 2022
Collaborative Learning				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
1b. Asked another student to help you understand course material	39	+2	+5	+1
1c. Explained course material to one or more students	47	+1	+3	-1
1d. Prepared for exams by discussing or working through course material with other students	36	-0	+2	-2
1e. Worked with other students on course projects or assignments	51	-3	-0	-6
Discussions with Diverse Others				
<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	70	-0	+5	+3
8b. People from an economic background other than your own	71	+2	+6	+3
8c. People with religious beliefs other than your own	67	+1	+6	+4
8d. People with political views other than your own	68	+6	+10	+8

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Experiences with Faculty: First-year students

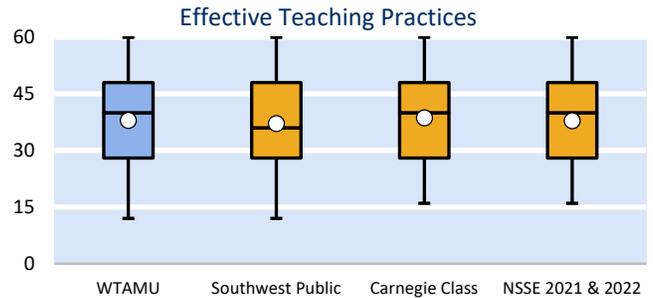
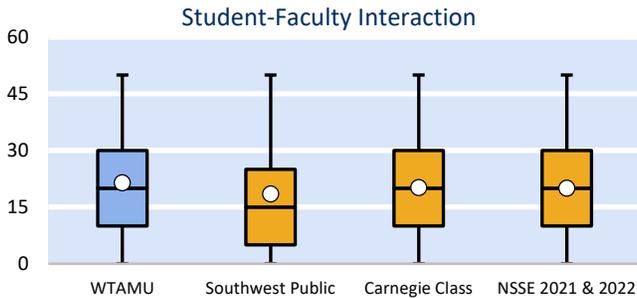
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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	WTAMU Mean	Your first-year students compared with					
		Southwest Public Mean	Southwest Public Effect size	Carnegie Class Mean	Carnegie Class Effect size	NSSE 2021 & 2022 Mean	NSSE 2021 & 2022 Effect size
Student-Faculty Interaction	21.4	18.5 **	.19	20.2	.08	20.0	.09
Effective Teaching Practices	37.9	37.1	.06	38.6	-.05	37.9	.00

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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Student-Faculty Interaction	WTAMU %	Percentage point difference ^a between your FY students and		
		Southwest Public	Carnegie Class	NSSE 2021 & 2022
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
3a. Talked about career plans with a faculty member	44	+12	+9	+9
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	21	+2	+2	+2
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	22	-0	-3	-3
3d. Discussed your academic performance with a faculty member	31	+5	-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	75	+2	-0	+0
5b. Taught course sessions in an organized way	74	+4	+2	+2
5c. Used examples or illustrations to explain difficult points	73	+3	+1	+1
5d. Provided feedback on a draft or work in progress	57	-4	-8	-6
5e. Provided prompt and detailed feedback on tests or completed assignments	58	+3	-4	-1

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Experiences with Faculty: Seniors

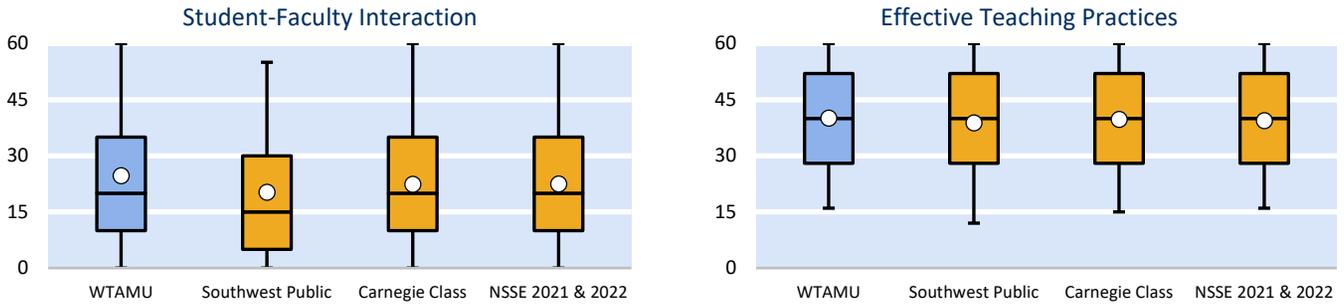
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		Mean	Effect size	Mean	Effect size	Mean	Effect size
Student-Faculty Interaction	24.6	20.2 ***	.27	22.4 *	.14	22.5 *	.13
Effective Teaching Practices	40.0	38.8	.08	39.7	.02	39.4	.04

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3a. Talked about career plans with a faculty member	45	+10	+5	+5
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	28	+5	+4	+3
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	30	+4	+1	+1
3d. Discussed your academic performance with a faculty member	37	+9	+2	+5
<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	+3	+2	+2
5b. Taught course sessions in an organized way	76	+3	+1	+1
5c. Used examples or illustrations to explain difficult points	78	+4	+3	+3
5d. Provided feedback on a draft or work in progress	58	-1	-5	-4
5e. Provided prompt and detailed feedback on tests or completed assignments	61	+0	-5	-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

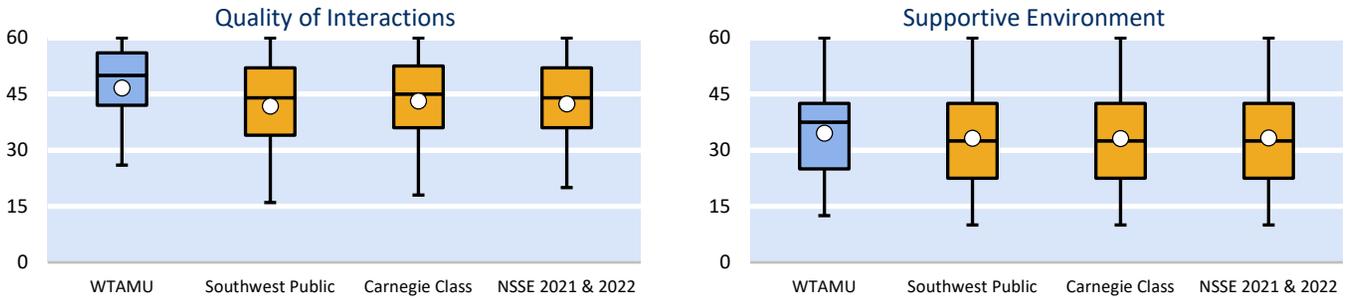
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

Mean Comparisons

Engagement Indicator	WTAMU Mean	Your first-year students compared with					
		Southwest Public		Carnegie Class		NSSE 2021 & 2022	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	46.6	41.8 ***	.37	43.1 ***	.27	42.4 ***	.34
Supportive Environment	34.6	33.2	.09	33.1	.10	33.3	.09

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	WTAMU	Percentage point difference ^a between your FY students and		
		Southwest Public	Carnegie Class	NSSE 2021 & 2022
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
13a. Students	61	+14	+13	+12
13b. Academic advisors	61	+10	+4	+7
13c. Faculty	68	+18	+14	+17
13d. Student services staff (career services, student activities, housing, etc.)	62	+15	+13	+16
13e. Other administrative staff and offices (registrar, financial aid, etc.)	59	+13	+8	+13
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	78	+9	+7	+8
14c. Using learning support services (tutoring services, writing center, etc.)	69	-0	-2	-2
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	56	-2	-2	-2
14e. Providing opportunities to be involved socially	66	+4	+4	+2
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	64	+2	+3	+2
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	42	+2	+1	+5
14h. Attending campus activities and events (performing arts, athletic events, etc.)	67	+12	+16	+11
14i. Attending events that address important social, economic, or political issues	45	+2	+2	+1

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

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

Campus Environment: Seniors

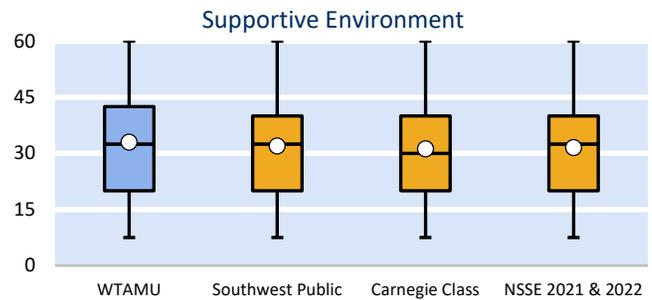
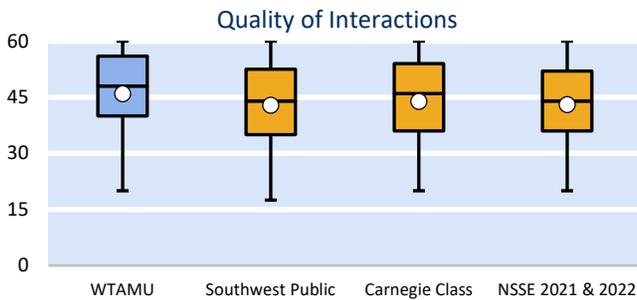
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

Mean Comparisons

Engagement Indicator	WTAMU Mean	Your seniors compared with					
		Southwest Public		Carnegie Class		NSSE 2021 & 2022	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	46.0	42.9 ***	.23	43.9 **	.16	43.0 ***	.23
Supportive Environment	33.1	32.0	.07	31.2 *	.12	31.6	.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).

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	WTAMU	Percentage point difference ^a between your seniors and		
		Southwest Public	Carnegie Class	NSSE 2021 & 2022
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
13a. Students	59	+2	+1	+2
13b. Academic advisors	64	+11	+6	+9
13c. Faculty	66	+11	+7	+9
13d. Student services staff (career services, student activities, housing, etc.)	60	+12	+10	+13
13e. Other administrative staff and offices (registrar, financial aid, etc.)	59	+11	+8	+12
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	66	-1	-3	-1
14c. Using learning support services (tutoring services, writing center, etc.)	64	-0	-1	-0
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	52	-4	-2	-2
14e. Providing opportunities to be involved socially	67	+6	+9	+6
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	61	+1	+4	+3
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	41	+6	+6	+8
14h. Attending campus activities and events (performing arts, athletic events, etc.)	60	+8	+15	+9
14i. Attending events that address important social, economic, or political issues	42	+1	+2	+1

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

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

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Comparisons with Top 50% and Top 10% Institutions

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

- (a) institutions with average scores placing them in the top 50% of all 2021 and 2022 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2021 and 2022 NSSE institutions.

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

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

First-Year Students

Theme	Engagement Indicator	WTAMU Mean	Your first-year students compared with					
			NSSE Top 50%			NSSE Top 10%		
			Mean	Effect size	✓	Mean	Effect size	✓
<i>Academic Challenge</i>	Higher-Order Learning	35.5	39.2 ***	-.29		42.1 ***	-.51	
	Reflective and Integrative Learning	33.7	36.9 ***	-.27		39.2 ***	-.47	
	Learning Strategies	36.7	39.6 **	-.20		42.9 ***	-.43	
	Quantitative Reasoning	29.1	30.2	-.07	✓	33.3 ***	-.27	
<i>Learning with Peers</i>	Collaborative Learning	30.9	31.8	-.06	✓	35.4 ***	-.33	
	Discussions with Diverse Others	37.0	39.8 *	-.19		42.6 ***	-.39	
<i>Experiences with Faculty</i>	Student-Faculty Interaction	21.4	24.3 **	-.20		27.8 ***	-.42	
	Effective Teaching Practices	37.9	40.3 **	-.17		43.3 ***	-.39	
<i>Campus Environment</i>	Quality of Interactions	46.6	45.1	.13	✓	48.2	-.13	
	Supportive Environment	34.6	35.9	-.10	✓	39.1 ***	-.34	

Seniors

Theme	Engagement Indicator	WTAMU Mean	Your seniors compared with					
			NSSE Top 50%			NSSE Top 10%		
			Mean	Effect size	✓	Mean	Effect size	✓
<i>Academic Challenge</i>	Higher-Order Learning	40.2	41.9 *	-.13		44.2 ***	-.31	
	Reflective and Integrative Learning	37.8	40.3 ***	-.20		42.7 ***	-.42	
	Learning Strategies	40.2	41.1	-.06	✓	43.4 ***	-.23	
	Quantitative Reasoning	31.0	32.5	-.09	✓	35.3 ***	-.27	
<i>Learning with Peers</i>	Collaborative Learning	28.4	34.0 ***	-.38		37.9 ***	-.68	
	Discussions with Diverse Others	39.7	40.4	-.04	✓	43.2 ***	-.23	
<i>Experiences with Faculty</i>	Student-Faculty Interaction	24.6	28.8 ***	-.26		33.2 ***	-.53	
	Effective Teaching Practices	40.0	41.9 **	-.14		44.5 ***	-.33	
<i>Campus Environment</i>	Quality of Interactions	46.0	45.6	.03	✓	48.0 **	-.16	
	Supportive Environment	33.1	34.3	-.08	✓	37.4 ***	-.30	

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

a. Precision-weighted means were used to determine the top 50% and top 10% institutions for each Engagement Indicator from all NSSE 2021 and 2022 institutions, separately by class. Using this method, Engagement Indicator scores of institutions with relatively large standard errors were adjusted toward the mean of all students, while those with smaller standard errors received smaller corrections. As a result, schools with less stable data—even those with high average scores—may not be among the top scorers. NSSE does not publish the names of the top 50% and top 10% institutions because of our commitment not to release institutional results and our policy against ranking institutions.

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

Detailed Statistics: First-Year Students

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
WTAMU (N = 235)	35.5	13.1	.86	15	25	35	45	60				
Southwest Public	37.0	14.0	.11	15	25	40	45	60	16,125	-1.5	.101	-.108
Carnegie Class	37.9	13.7	.07	15	30	40	45	60	34,563	-2.4	.007	-.176
NSSE 2021 & 2022	37.8	13.5	.03	15	30	40	45	60	150,567	-2.3	.009	-.171
Top 50%	39.2	13.3	.05	20	30	40	50	60	77,553	-3.8	.000	-.285
Top 10%	42.1	13.0	.14	20	35	40	55	60	8,742	-6.6	.000	-.506
Reflective & Integrative Learning												
WTAMU (N = 261)	33.7	12.4	.77	14	26	34	43	54				
Southwest Public	34.5	12.6	.10	14	26	34	43	57	17,676	-.8	.299	-.065
Carnegie Class	35.1	12.5	.06	14	26	34	43	57	37,537	-1.4	.062	-.116
NSSE 2021 & 2022	35.3	12.3	.03	17	26	34	43	57	163,630	-1.6	.035	-.131
Top 50%	36.9	12.1	.04	17	29	37	46	60	77,762	-3.2	.000	-.268
Top 10%	39.2	11.8	.12	20	31	40	49	60	10,807	-5.5	.000	-.469
Learning Strategies												
WTAMU (N = 211)	36.7	13.8	.95	13	27	40	47	60				
Southwest Public	37.3	14.3	.12	13	27	40	47	60	14,949	-.5	.580	-.038
Carnegie Class	38.5	14.3	.08	13	27	40	47	60	31,994	-1.8	.073	-.124
NSSE 2021 & 2022	37.9	14.0	.04	13	27	40	47	60	139,957	-1.2	.223	-.084
Top 50%	39.6	14.1	.05	20	27	40	53	60	70,696	-2.8	.004	-.200
Top 10%	42.9	14.3	.13	20	33	40	60	60	13,071	-6.2	.000	-.432
Quantitative Reasoning												
WTAMU (N = 218)	29.1	15.3	1.03	7	20	27	40	60				
Southwest Public	28.4	15.6	.13	0	20	27	40	60	15,137	.6	.561	.040
Carnegie Class	28.5	15.8	.09	0	20	27	40	60	32,500	.5	.612	.034
NSSE 2021 & 2022	28.7	15.5	.04	0	20	27	40	60	141,952	.3	.764	.020
Top 50%	30.2	15.3	.05	7	20	27	40	60	81,456	-1.1	.283	-.073
Top 10%	33.3	15.5	.15	7	20	33	40	60	10,745	-4.2	.000	-.272
Learning with Peers												
Collaborative Learning												
WTAMU (N = 274)	30.9	13.8	.84	10	20	30	40	60				
Southwest Public	26.7	14.8	.11	5	15	25	35	55	282	4.2	.000	.285
Carnegie Class	24.4	15.9	.08	0	10	25	35	55	278	6.5	.000	.413
NSSE 2021 & 2022	27.5	15.0	.04	0	15	25	40	55	274	3.5	.000	.232
Top 50%	31.8	13.9	.05	10	20	30	40	60	71,653	-.9	.288	-.064
Top 10%	35.4	13.5	.12	15	25	35	45	60	13,371	-4.5	.000	-.332
Discussions with Diverse Others												
WTAMU (N = 213)	37.0	16.5	1.13	5	25	40	50	60				
Southwest Public	36.4	16.9	.14	5	20	40	50	60	15,025	.6	.616	.035
Carnegie Class	35.6	17.2	.10	0	20	40	50	60	32,208	1.4	.230	.082
NSSE 2021 & 2022	37.1	16.1	.04	10	25	40	50	60	140,848	-.1	.912	-.008
Top 50%	39.8	15.1	.06	15	30	40	55	60	213	-2.8	.014	-.186
Top 10%	42.6	14.2	.15	20	35	40	55	60	220	-5.6	.000	-.389

Detailed Statistics: First-Year Students

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
WTAMU (N = 246)	21.4	15.8	1.01	0	10	20	30	50				
Southwest Public	18.5	15.0	.12	0	5	15	25	50	16,824	2.9	.003	.191
Carnegie Class	20.2	15.0	.08	0	10	20	30	50	35,957	1.2	.205	.081
NSSE 2021 & 2022	20.0	14.8	.04	0	10	20	30	50	246	1.4	.172	.094
Top 50%	24.3	15.1	.08	5	15	20	35	55	39,542	-3.0	.002	-.195
Top 10%	27.8	15.3	.19	5	15	25	40	60	6,906	-6.5	.000	-.420
Effective Teaching Practices												
WTAMU (N = 236)	37.9	14.3	.93	12	28	40	48	60				
Southwest Public	37.1	14.1	.11	12	28	36	48	60	16,076	.9	.345	.062
Carnegie Class	38.6	14.2	.08	16	28	40	48	60	34,466	-.7	.464	-.048
NSSE 2021 & 2022	37.9	13.7	.04	16	28	40	48	60	150,140	.0	.957	.004
Top 50%	40.3	13.8	.06	16	32	40	52	60	54,231	-2.4	.009	-.171
Top 10%	43.3	13.7	.15	20	36	44	56	60	8,696	-5.4	.000	-.392
Campus Environment												
Quality of Interactions												
WTAMU (N = 197)	46.6	11.8	.84	26	42	50	56	60				
Southwest Public	41.8	13.2	.11	16	34	44	52	60	204	4.9	.000	.369
Carnegie Class	43.1	12.9	.08	18	36	45	53	60	199	3.5	.000	.271
NSSE 2021 & 2022	42.4	12.4	.03	20	36	44	52	60	127,243	4.2	.000	.341
Top 50%	45.1	11.9	.06	22	38	48	54	60	43,230	1.5	.074	.128
Top 10%	48.2	12.5	.14	23	42	50	60	60	8,311	-1.6	.077	-.128
Supportive Environment												
WTAMU (N = 202)	34.6	13.6	.96	13	25	38	43	60				
Southwest Public	33.2	14.5	.12	10	23	33	43	60	14,480	1.4	.185	.094
Carnegie Class	33.1	14.4	.08	10	23	33	43	60	30,980	1.5	.138	.105
NSSE 2021 & 2022	33.3	14.0	.04	10	23	33	43	60	135,696	1.3	.190	.092
Top 50%	35.9	13.6	.06	13	28	38	45	60	49,066	-1.3	.162	-.099
Top 10%	39.1	13.3	.18	18	30	40	50	60	5,727	-4.5	.000	-.338

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

b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI (equal to the sample mean +/- 1.96 x SE) is the range that is 95% likely to contain the true population mean.

d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.

e. Degrees of freedom used to compute the t-tests. Values vary from the total Ns due to weighting and whether equal variances were assumed.

f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

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

Detailed Statistics: Seniors

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
WTAMU (N = 354)	40.2	13.9	.74	20	35	40	50	60				
Southwest Public	39.9	14.3	.09	15	30	40	50	60	27,113	.2	.746	.017
Carnegie Class	40.5	14.0	.06	20	30	40	50	60	47,308	-.3	.657	-.024
NSSE 2021 & 2022	40.2	14.0	.03	20	30	40	50	60	190,887	-.1	.934	-.004
Top 50%	41.9	13.7	.05	20	35	40	55	60	75,953	-1.7	.017	-.127
Top 10%	44.2	13.1	.16	20	35	45	60	60	7,320	-4.1	.000	-.311
Reflective & Integrative Learning												
WTAMU (N = 379)	37.8	12.8	.66	20	29	37	49	60				
Southwest Public	37.3	13.4	.08	17	29	37	46	60	28,839	.5	.461	.038
Carnegie Class	38.1	13.1	.06	17	29	37	49	60	50,458	-.3	.686	-.021
NSSE 2021 & 2022	38.1	13.0	.03	17	29	37	49	60	203,299	-.3	.625	-.025
Top 50%	40.3	12.5	.05	20	31	40	50	60	68,990	-2.5	.000	-.198
Top 10%	42.7	11.7	.15	23	34	43	51	60	416	-4.9	.000	-.420
Learning Strategies												
WTAMU (N = 348)	40.2	15.7	.84	13	27	40	53	60				
Southwest Public	39.6	14.9	.09	13	27	40	53	60	25,577	.6	.458	.040
Carnegie Class	39.7	14.7	.07	13	27	40	53	60	44,604	.5	.530	.034
NSSE 2021 & 2022	39.0	14.8	.03	13	27	40	53	60	180,008	1.2	.123	.083
Top 50%	41.1	14.6	.05	20	33	40	53	60	82,408	-.9	.271	-.059
Top 10%	43.4	14.2	.12	20	33	40	60	60	14,248	-3.2	.000	-.226
Quantitative Reasoning												
WTAMU (N = 345)	31.0	16.3	.88	7	20	33	40	60				
Southwest Public	30.5	16.7	.10	0	20	27	40	60	25,944	.5	.546	.033
Carnegie Class	30.7	16.6	.08	0	20	27	40	60	45,190	.4	.677	.023
NSSE 2021 & 2022	30.9	16.6	.04	0	20	33	40	60	182,244	.2	.836	.011
Top 50%	32.5	16.5	.05	7	20	33	40	60	92,002	-1.4	.111	-.086
Top 10%	35.3	16.0	.15	7	20	33	47	60	11,051	-4.3	.000	-.269
Learning with Peers												
Collaborative Learning												
WTAMU (N = 387)	28.4	17.3	.88	5	15	25	40	60				
Southwest Public	28.2	16.3	.09	0	15	25	40	60	30,235	.2	.784	.014
Carnegie Class	26.6	16.9	.07	0	15	25	40	60	52,711	1.9	.032	.110
NSSE 2021 & 2022	29.0	16.2	.04	0	20	30	40	60	387	-.6	.529	-.034
Top 50%	34.0	14.6	.05	10	25	35	45	60	389	-5.6	.000	-.383
Top 10%	37.9	13.7	.14	15	30	40	50	60	407	-9.4	.000	-.681
Discussions with Diverse Others												
WTAMU (N = 346)	39.7	16.8	.90	5	30	40	60	60				
Southwest Public	38.8	17.3	.11	5	25	40	55	60	25,671	.9	.325	.053
Carnegie Class	37.0	17.3	.08	0	20	40	50	60	44,725	2.8	.003	.159
NSSE 2021 & 2022	38.1	16.5	.04	10	25	40	50	60	180,622	1.6	.065	.099
Top 50%	40.4	15.9	.06	15	30	40	55	60	82,501	-.7	.433	-.042
Top 10%	43.2	15.1	.17	20	35	45	60	60	8,538	-3.5	.000	-.231

Detailed Statistics: Seniors

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
WTAMU (N = 366)	24.6	17.6	.92	0	10	20	35	60				
Southwest Public	20.2	16.5	.10	0	5	15	30	55	374	4.4	.000	.265
Carnegie Class	22.4	16.3	.07	0	10	20	35	60	370	2.2	.015	.138
NSSE 2021 & 2022	22.5	16.3	.04	0	10	20	35	60	366	2.2	.020	.132
Top 50%	28.8	16.2	.09	5	15	25	40	60	371	-4.2	.000	-.255
Top 10%	33.2	16.1	.24	10	20	35	45	60	416	-8.6	.000	-.531
Effective Teaching Practices												
WTAMU (N = 358)	40.0	14.8	.78	16	28	40	52	60				
Southwest Public	38.8	15.0	.09	12	28	40	52	60	27,101	1.2	.129	.081
Carnegie Class	39.7	14.7	.07	15	28	40	52	60	47,272	.3	.674	.022
NSSE 2021 & 2022	39.4	14.5	.03	16	28	40	52	60	190,642	.6	.424	.042
Top 50%	41.9	14.1	.06	16	32	40	56	60	60,251	-1.9	.010	-.137
Top 10%	44.5	13.6	.14	20	36	44	56	60	380	-4.5	.000	-.328
Campus Environment												
Quality of Interactions												
WTAMU (N = 322)	46.0	12.5	.70	20	40	48	56	60				
Southwest Public	42.9	13.3	.09	18	35	44	53	60	22,755	3.1	.000	.232
Carnegie Class	43.9	13.0	.07	20	36	46	54	60	39,366	2.1	.005	.158
NSSE 2021 & 2022	43.0	12.7	.03	20	36	44	52	60	162,601	2.9	.000	.231
Top 50%	45.6	12.3	.05	22	38	48	56	60	63,654	.3	.619	.028
Top 10%	48.0	12.5	.09	22	40	50	60	60	19,317	-2.0	.004	-.162
Supportive Environment												
WTAMU (N = 341)	33.1	15.7	.85	8	20	33	43	60				
Southwest Public	32.0	15.1	.10	8	20	33	40	60	24,915	1.0	.207	.069
Carnegie Class	31.2	15.0	.07	8	20	30	40	60	43,425	1.9	.023	.123
NSSE 2021 & 2022	31.6	14.7	.04	8	20	33	40	60	342	1.5	.078	.102
Top 50%	34.3	14.7	.06	10	23	35	45	60	344	-1.2	.160	-.081
Top 10%	37.4	14.5	.19	13	28	38	48	60	375	-4.4	.000	-.299

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.