



NSSE 2020

Engagement Indicators

Tennessee Technological 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.

Theme	Engagement Indicator
<i>Academic Challenge</i>	Higher-Order Learning Reflective & Integrative Learning Learning Strategies Quantitative Reasoning
<i>Learning with Peers</i>	Collaborative Learning Discussions with Diverse Others
<i>Experiences with Faculty</i>	Student-Faculty Interaction Effective Teaching Practices
<i>Campus Environment</i>	Quality of Interactions Supportive Environment

Report Sections

Overview (p. 3)

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

Theme Reports (pp. 4-13)

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

Mean Comparisons

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

Score Distributions

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

Performance on Indicator Items

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

Comparisons with High-Performing Institutions (p. 15)

Comparisons of your students' average scores on each EI with those of students at institutions whose average scores were in the top 50% and top 10% of 2019 and 2020 participating institutions.

Detailed Statistics (pp. 16-19)

Detailed information about EI score means, distributions, and tests of statistical significance.

Interpreting Comparisons

Mean comparisons report both statistical significance and effect size. Effect size indicates the practical importance of an observed difference. For EI comparisons, NSSE research has concluded that an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2018). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview (p. 3).

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

How Engagement Indicators are Computed

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

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

Engagement Indicators: Overview

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

Use the following key:

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

First-Year Students

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

Seniors

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

Academic Challenge: First-year students

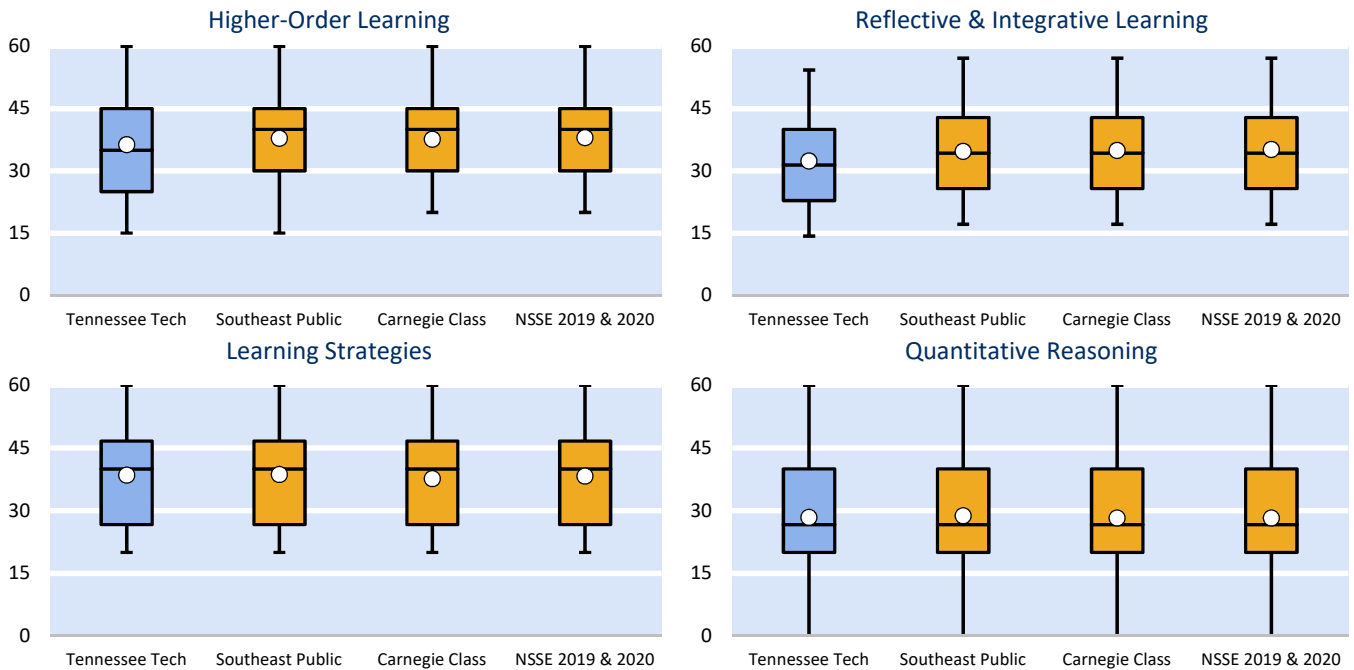
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*,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

Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your first-year students compared with					
		Southeast Public		Carnegie Class		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	36.3	37.9 *	-.12	37.6	-.10	38.1 *	-.13
Reflective & Integrative Learning	32.4	34.7 ***	-.19	35.0 ***	-.22	35.2 ***	-.23
Learning Strategies	38.5	38.7	-.01	37.6	.06	38.3	.01
Quantitative Reasoning	28.4	28.8	-.02	28.2	.01	28.2	.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: 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.

	Tennessee Tech	Percentage point difference ^a between your FY students and		
		Southeast Public	Carnegie Class	NSSE 2019 & 2020
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	65	-5	-6	-6
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	65	-4	-4	-4
4d. Evaluating a point of view, decision, or information source	62	-7	-6	-8
4e. Forming a new idea or understanding from various pieces of information	61	-7	-7	-9
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	49	-1	-3	-3
2b. Connected your learning to societal problems or issues	41	-8	-9	-10
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	39	-11	-11	-12
2d. Examined the strengths and weaknesses of your own views on a topic or issue	55	-7	-8	-8
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	62	-8	-9	-9
2f. Learned something that changed the way you understand an issue or concept	60	-5	-6	-7
2g. Connected ideas from your courses to your prior experiences and knowledge	73	-3	-4	-5
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	68	-5	-5	-6
9b. Reviewed your notes after class	71	+3	+6	+5
9c. Summarized what you learned in class or from course materials	66	+0	+3	+2
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.)	51	-3	-2	-1
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	41	-0	+1	+0
6c. Evaluated what others have concluded from numerical information	40	-1	-0	+0

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

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

Academic Challenge: Seniors

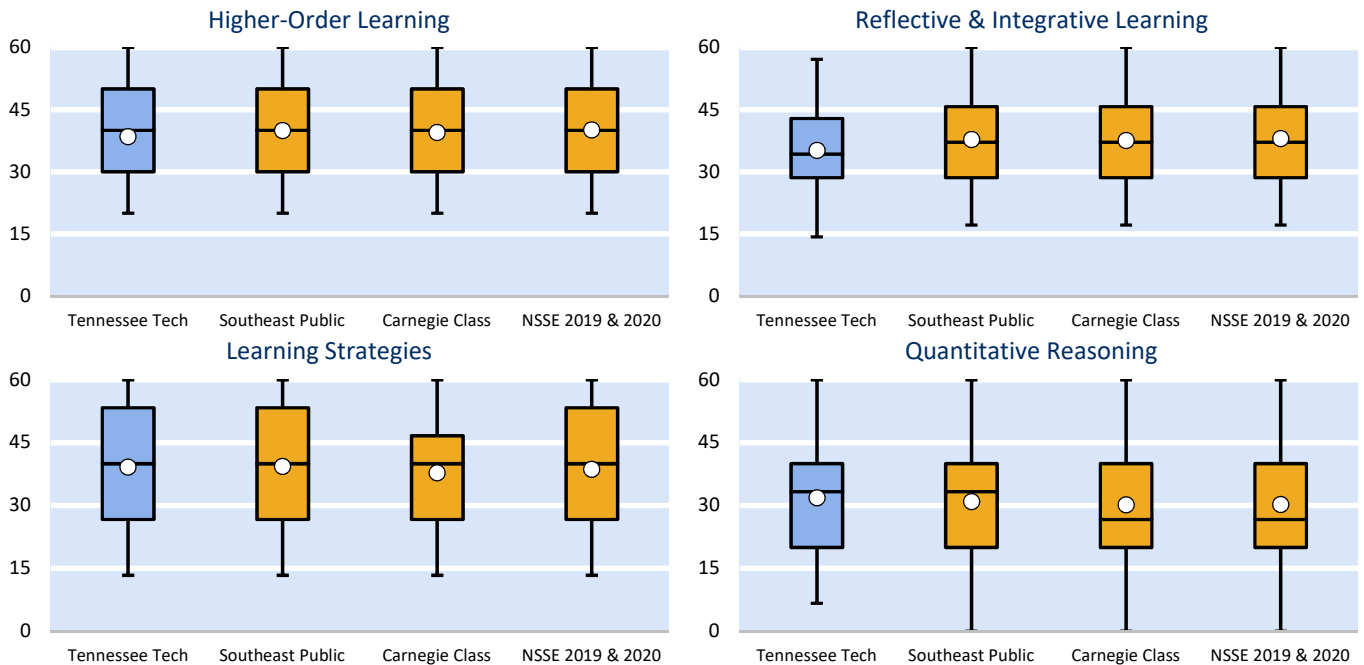
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Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your seniors compared with					
		Southeast Public		Carnegie Class		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	38.5	40.0 *	-.11	39.5	-.07	40.1 *	-.12
Reflective & Integrative Learning	35.2	37.8 ***	-.21	37.6 ***	-.19	38.1 ***	-.23
Learning Strategies	39.2	39.3	-.01	37.8 *	.10	38.6	.04
Quantitative Reasoning	31.8	30.9	.05	30.1 *	.11	30.2 *	.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).

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.

	Tennessee Tech	Percentage point difference ^a between your seniors and		
		Southeast Public	Carnegie Class	NSSE 2019 & 2020
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	78	-0	+1	+0
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	72	-3	-2	-3
4d. Evaluating a point of view, decision, or information source	61	-9	-8	-10
4e. Forming a new idea or understanding from various pieces of information	68	-3	-2	-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	67	-1	-2	-1
2b. Connected your learning to societal problems or issues	50	-9	-10	-11
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	36	-15	-14	-17
2d. Examined the strengths and weaknesses of your own views on a topic or issue	63	-3	-2	-4
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	65	-8	-7	-8
2f. Learned something that changed the way you understand an issue or concept	66	-5	-5	-6
2g. Connected ideas from your courses to your prior experiences and knowledge	81	-2	-2	-3
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	69	-8	-6	-8
9b. Reviewed your notes after class	71	+6	+10	+9
9c. Summarized what you learned in class or from course materials	72	+5	+10	+7
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.)	63	+5	+7	+7
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	48	+1	+3	+2
6c. Evaluated what others have concluded from numerical information	47	-1	+1	+1

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

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Learning with Peers: First-year students

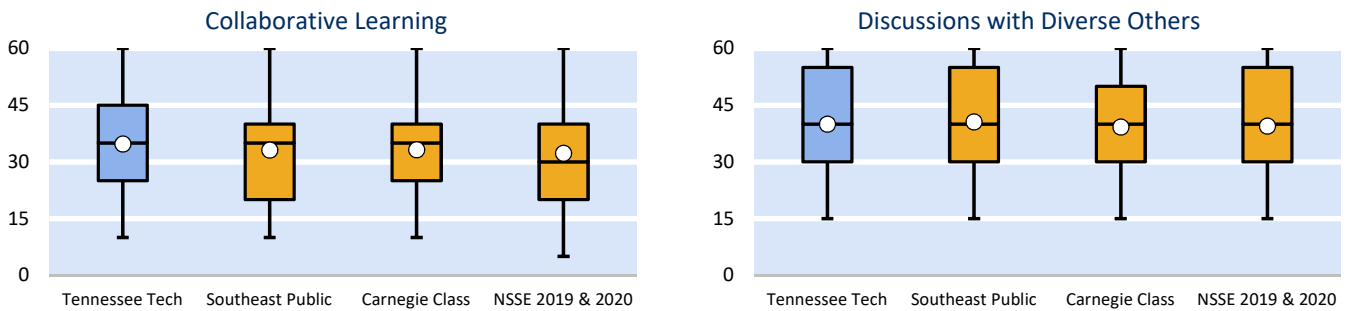
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your first-year students compared with					
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		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	34.7	33.1 *	.11	33.2 *	.11	32.2 ***	.17
Discussions with Diverse Others	39.9	40.6	-.04	39.2	.05	39.5	.03

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	Tennessee Tech	Percentage point difference ^a between your FY students and		
		Southeast Public	Carnegie Class	NSSE 2019 & 2020
Collaborative Learning				
Percentage of students who responded that they "Very often" or "Often"...				
	%			
1e. Asked another student to help you understand course material	61	+7	+7	+9
1f. Explained course material to one or more students	58	-1	-2	+1
1g. Prepared for exams by discussing or working through course material with other students	57	+5	+5	+7
1h. Worked with other students on course projects or assignments	60	+4	+4	+5
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	-7	-3	-5
8b. People from an economic background other than your own	73	-0	+2	+1
8c. People with religious beliefs other than your own	70	+2	+5	+4
8d. People with political views other than your own	70	+3	+6	+6

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Learning with Peers: Seniors

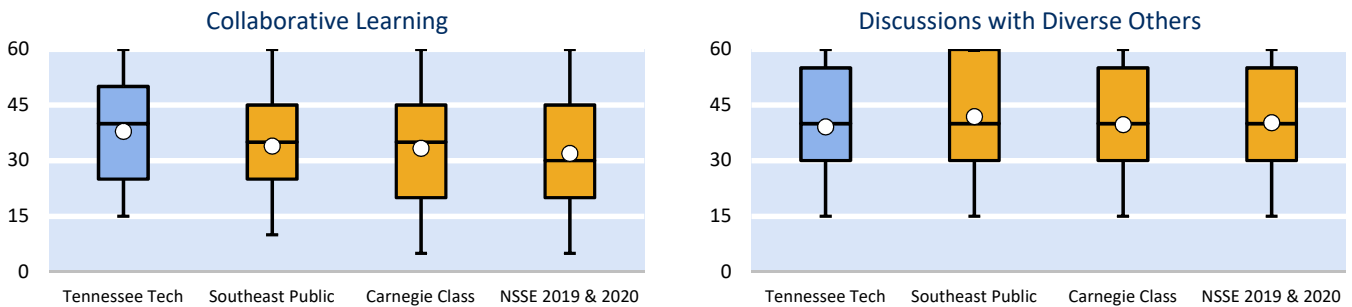
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Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your seniors compared with					
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		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	37.9	33.9 ***	.27	33.4 ***	.30	32.0 ***	.38
Discussions with Diverse Others	39.2	41.9 ***	-.17	39.8	-.04	40.2	-.07

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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	Tennessee Tech	Percentage point difference ^a between your seniors and		
		Southeast Public	Carnegie Class	NSSE 2019 & 2020
Collaborative Learning				
Percentage of students who responded that they "Very often" or "Often"...				
	%			
1e. Asked another student to help you understand course material	54	+7	+8	+11
1f. Explained course material to one or more students	70	+8	+9	+12
1g. Prepared for exams by discussing or working through course material with other students	65	+14	+15	+18
1h. Worked with other students on course projects or assignments	75	+9	+10	+13
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	65	-10	-4	-7
8b. People from an economic background other than your own	72	-4	+0	-1
8c. People with religious beliefs other than your own	68	-4	+1	-0
8d. People with political views other than your own	70	+0	+5	+5

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Experiences with Faculty: First-year students

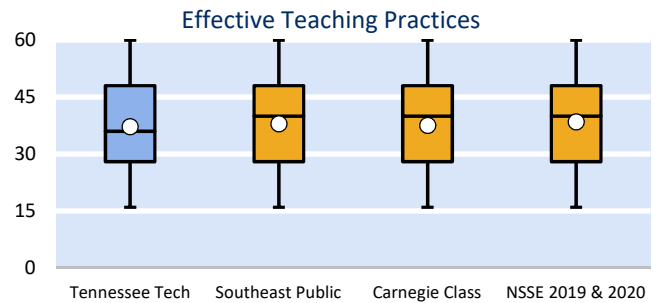
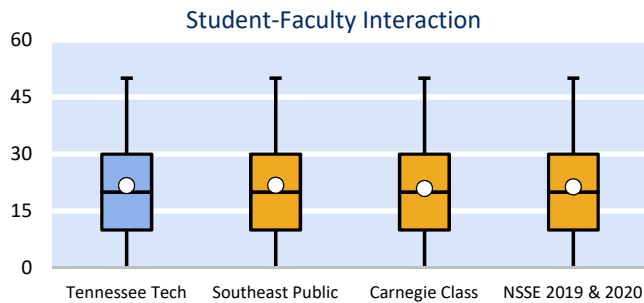
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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	Tennessee Tech Mean	Your first-year students compared with					
		Southeast Public Effect size		Carnegie Class Effect size		NSSE 2019 & 2020 Effect size	
	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Student-Faculty Interaction	21.7	21.7	.00	20.9	.05	21.4	.02
Effective Teaching Practices	37.2	38.0	-.06	37.5	-.02	38.4	-.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).

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Student-Faculty Interaction	Tennessee Tech %	Percentage point difference ^a between your FY students and			
		Southeast Public	Carnegie Class	NSSE 2019 & 2020	
<i>Percentage of students who responded that they "Very often" or "Often"...</i>					
3a. Talked about career plans with a faculty member	41	+1	+4	+3	
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	20	-2	-1	-1	
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	26	-1	+1	-1	
3d. Discussed your academic performance with a faculty member	31	-0	+2	+1	
<i>Effective Teaching Practices</i>					
<i>Percentage responding "Very much" or "Quite a bit" about how much instructors have...</i>					
5a. Clearly explained course goals and requirements	76	-0	-0	-1	
5b. Taught course sessions in an organized way	68	-5	-5	-6	
5c. Used examples or illustrations to explain difficult points	74	+1	+0	-0	
5d. Provided feedback on a draft or work in progress	56	-5	-4	-7	
5e. Provided prompt and detailed feedback on tests or completed assignments	54	-3	-1	-5	

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Experiences with Faculty: Seniors

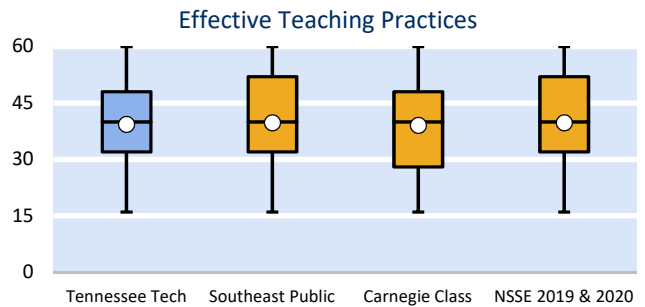
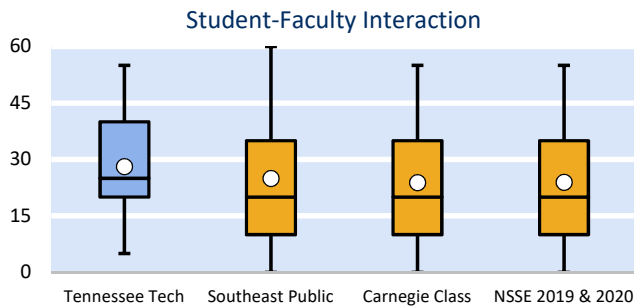
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Effective Teaching Practices	39.3	39.7	-.03	39.1	.02	39.7	-.03

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3a. Talked about career plans with a faculty member	53	+8	+10	+9
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	36	+6	+7	+8
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	41	+7	+9	+9
3d. Discussed your academic performance with a faculty member	41	+6	+9	+8
<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	78	-2	-1	-2
5b. Taught course sessions in an organized way	75	-1	-1	-2
5c. Used examples or illustrations to explain difficult points	80	+2	+2	+2
5d. Provided feedback on a draft or work in progress	64	+2	+5	+2
5e. Provided prompt and detailed feedback on tests or completed assignments	68	+5	+7	+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.

Campus Environment: First-year students

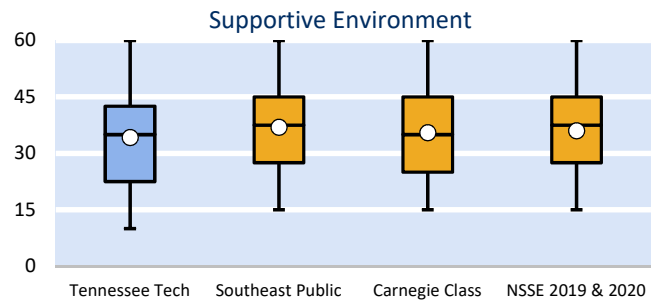
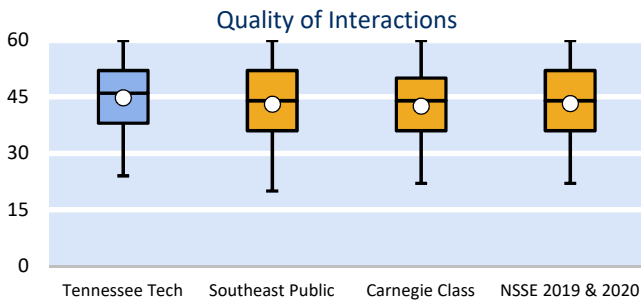
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your first-year students compared with					
		Southeast Public		Carnegie Class		NSSE 2019 & 2020	
	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	44.8	43.1 **	.14	42.6 ***	.19	43.2 **	.13
Supportive Environment	34.3	36.9 ***	-.20	35.5	-.10	36.0 *	-.13

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

Score Distributions



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

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	Tennessee Tech	Percentage point difference ^a between your FY students and		
		Southeast Public	Carnegie Class	NSSE 2019 & 2020
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
	%			
13a. Students	55	+2	+4	+2
13b. Academic advisors	61	+6	+8	+7
13c. Faculty	51	+0	+1	-2
13d. Student services staff (career services, student activities, housing, etc.)	50	+2	+4	+2
13e. Other administrative staff and offices (registrar, financial aid, etc.)	50	+5	+6	+3
<i>Supportive Environment</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	71	-4	-3	-4
14c. Using learning support services (tutoring services, writing center, etc.)	72	-5	-4	-4
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	56	-5	-2	-5
14e. Providing opportunities to be involved socially	69	-4	-1	-2
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	66	-5	-3	-3
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	38	-5	-1	-4
14h. Attending campus activities and events (performing arts, athletic events, etc.)	59	-10	-5	-4
14i. Attending events that address important social, economic, or political issues	39	-10	-7	-8

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

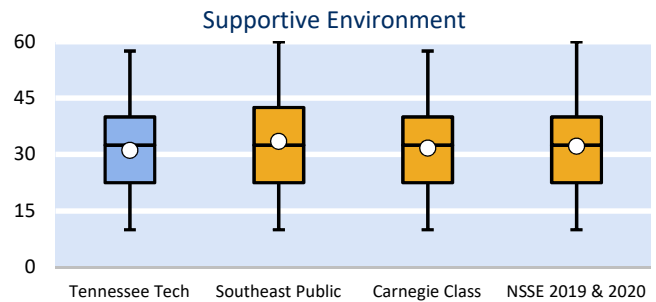
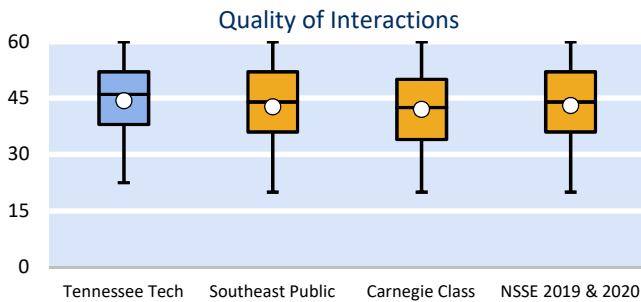
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your seniors compared with					
		Southeast Public		Carnegie Class		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	44.3	42.7 **	.13	42.0 ***	.19	43.0 *	.10
Supportive Environment	31.1	33.5 ***	-.17	31.8	-.05	32.2	-.08

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	Tennessee Tech	Percentage point difference ^a between your seniors and		
		Southeast Public	Carnegie Class	NSSE 2019 & 2020
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
	%			
13a. Students	65	+6	+8	+7
13b. Academic advisors	58	+6	+9	+4
13c. Faculty	62	+6	+7	+4
13d. Student services staff (career services, student activities, housing, etc.)	50	+6	+9	+6
13e. Other administrative staff and offices (registrar, financial aid, etc.)	46	+4	+4	+2
<i>Supportive Environment</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	72	+2	+4	+2
14c. Using learning support services (tutoring services, writing center, etc.)	56	-10	-9	-11
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	50	-6	-2	-5
14e. Providing opportunities to be involved socially	68	-1	+4	+4
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	60	-4	+0	+1
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	31	-2	+2	-1
14h. Attending campus activities and events (performing arts, athletic events, etc.)	51	-9	-2	-1
14i. Attending events that address important social, economic, or political issues	32	-10	-7	-8

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 2019 and 2020 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2019 and 2020 NSSE institutions.

While the average scores for most institutions are below the mean for the top 50% or top 10%, your institution may show areas of distinction where your average student was as engaged as (or even more engaged than) the typical student at high-performing institutions. A check mark (✓) signifies those comparisons where your average score was at least comparable^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		Tennessee Tech	Your first-year students compared with					
			NSSE Top 50%			NSSE Top 10%		
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
<i>Academic Challenge</i>	Higher-Order Learning	36.3	39.3 ***	-.23		41.4 ***	-.39	
	Reflective and Integrative Learning	32.4	36.7 ***	-.36		39.0 ***	-.56	
	Learning Strategies	38.5	39.9 *	-.10		42.3 ***	-.27	
	Quantitative Reasoning	28.4	29.4	-.07	✓	31.4 ***	-.20	
<i>Learning with Peers</i>	Collaborative Learning	34.7	35.2	-.03	✓	37.4 ***	-.20	
	Discussions with Diverse Others	39.9	41.5 *	-.10		43.6 ***	-.25	
<i>Experiences with Faculty</i>	Student-Faculty Interaction	21.7	24.5 ***	-.19		28.1 ***	-.42	
	Effective Teaching Practices	37.2	40.5 ***	-.25		42.3 ***	-.36	
<i>Campus Environment</i>	Quality of Interactions	44.8	45.2	-.04	✓	47.2 ***	-.21	
	Supportive Environment	34.3	37.9 ***	-.28		40.0 ***	-.45	

Seniors		Tennessee Tech	Your seniors compared with					
			NSSE Top 50%			NSSE Top 10%		
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
<i>Academic Challenge</i>	Higher-Order Learning	38.5	41.7 ***	-.24		43.2 ***	-.35	
	Reflective and Integrative Learning	35.2	39.8 ***	-.38		41.8 ***	-.54	
	Learning Strategies	39.2	40.7 *	-.10		42.7 ***	-.24	
	Quantitative Reasoning	31.8	31.4	.03	✓	33.4 *	-.10	
<i>Learning with Peers</i>	Collaborative Learning	37.9	35.9 **	.14	✓	38.4	-.04	✓
	Discussions with Diverse Others	39.2	42.1 ***	-.19		43.8 ***	-.30	
<i>Experiences with Faculty</i>	Student-Faculty Interaction	28.0	29.7 *	-.10		33.2 ***	-.33	
	Effective Teaching Practices	39.3	41.8 ***	-.18		43.7 ***	-.33	
<i>Campus Environment</i>	Quality of Interactions	44.3	45.2	-.08	✓	47.4 ***	-.26	
	Supportive Environment	31.1	34.6 ***	-.25		36.8 ***	-.40	

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

a. Precision-weighted means (produced by Hierarchical Linear Modeling) were used to determine the top 50% and top 10% institutions for each Engagement Indicator from all NSSE 2019 and 2020 institutions, separately by class. Using this method, Engagement Indicator scores of institutions with relatively large standard errors were adjusted toward the mean of all students, while those with smaller standard errors received smaller corrections. As a result, schools with less stable data—even those with high average scores—may not be among the top scorers. NSSE does not publish the names of the top 50% and top 10% institutions because of our commitment not to release institutional results and our policy against ranking institutions.

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

Detailed Statistics: First-Year Students

	Mean statistics			Percentile ^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												
Tennessee Tech (N = 412)	36.3	14.2	.70	15	25	35	45	60				
Southeast Public	37.9	13.5	.06	15	30	40	45	60	44,610	-1.6	.018	-.117
Carnegie Class	37.6	13.0	.07	20	30	40	45	60	419	-1.3	.063	-.100
NSSE 2019 & 2020	38.1	13.2	.03	20	30	40	45	60	412	-1.7	.013	-.132
Top 50%	39.3	13.1	.04	20	30	40	50	60	413	-3.0	.000	-.230
Top 10%	41.4	12.8	.09	20	35	40	50	60	423	-5.1	.000	-.395
Reflective & Integrative Learning												
Tennessee Tech (N = 451)	32.4	12.4	.58	14	23	31	40	54				
Southeast Public	34.7	12.2	.06	17	26	34	43	57	49,031	-2.3	.000	-.189
Carnegie Class	35.0	11.9	.06	17	26	34	43	57	38,691	-2.6	.000	-.216
NSSE 2019 & 2020	35.2	12.0	.03	17	26	34	43	57	224,257	-2.8	.000	-.231
Top 50%	36.7	11.8	.03	17	29	37	46	57	114,956	-4.3	.000	-.364
Top 10%	39.0	11.7	.09	20	31	40	49	60	18,431	-6.6	.000	-.559
Learning Strategies												
Tennessee Tech (N = 394)	38.5	14.1	.71	20	27	40	47	60				
Southeast Public	38.7	13.8	.07	20	27	40	47	60	41,719	-.2	.786	-.014
Carnegie Class	37.6	13.7	.07	20	27	40	47	60	33,829	.8	.226	.061
NSSE 2019 & 2020	38.3	13.8	.03	20	27	40	47	60	195,882	.2	.773	.015
Top 50%	39.9	13.7	.04	20	33	40	53	60	99,391	-1.4	.038	-.105
Top 10%	42.3	14.1	.10	20	33	40	53	60	22,291	-3.8	.000	-.272
Quantitative Reasoning												
Tennessee Tech (N = 396)	28.4	15.6	.78	0	20	27	40	60				
Southeast Public	28.8	15.6	.08	0	20	27	40	60	42,565	-.4	.647	-.023
Carnegie Class	28.2	15.1	.08	0	20	27	40	60	34,421	.2	.805	.012
NSSE 2019 & 2020	28.2	15.3	.03	0	20	27	40	60	199,197	.2	.809	.012
Top 50%	29.4	15.2	.04	7	20	27	40	60	129,266	-1.0	.174	-.068
Top 10%	31.4	15.3	.09	7	20	33	40	60	27,666	-3.0	.000	-.195
Learning with Peers												
Collaborative Learning												
Tennessee Tech (N = 505)	34.7	14.1	.63	10	25	35	45	60				
Southeast Public	33.1	14.3	.06	10	20	35	40	60	54,180	1.6	.010	.114
Carnegie Class	33.2	14.1	.07	10	25	35	40	60	41,846	1.5	.017	.107
NSSE 2019 & 2020	32.2	14.7	.03	5	20	30	40	60	241,536	2.5	.000	.170
Top 50%	35.2	13.7	.04	15	25	35	45	60	149,061	-.4	.480	-.031
Top 10%	37.4	13.5	.08	15	30	40	45	60	31,717	-2.7	.000	-.196
Discussions with Diverse Others												
Tennessee Tech (N = 395)	39.9	15.6	.78	15	30	40	55	60				
Southeast Public	40.6	15.7	.08	15	30	40	55	60	42,141	-.6	.414	-.041
Carnegie Class	39.2	15.3	.08	15	30	40	50	60	34,128	.8	.326	.050
NSSE 2019 & 2020	39.5	15.6	.04	15	30	40	55	60	197,316	.4	.577	.028
Top 50%	41.5	15.0	.04	20	30	40	55	60	132,383	-1.5	.045	-.101
Top 10%	43.6	14.5	.09	20	35	45	60	60	27,802	-3.7	.000	-.253

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												
Tennessee Tech (N = 427)	21.7	14.9	.72	0	10	20	30	50				
Southeast Public	21.7	15.0	.07	0	10	20	30	50	46,539	-.1	.919	-.005
Carnegie Class	20.9	14.4	.08	0	10	20	30	50	37,058	.7	.305	.050
NSSE 2019 & 2020	21.4	14.6	.03	0	10	20	30	50	214,599	.3	.678	.020
Top 50%	24.5	14.7	.05	5	15	20	35	55	76,143	-2.8	.000	-.191
Top 10%	28.1	15.5	.15	5	15	25	40	60	10,436	-6.4	.000	-.417
Effective Teaching Practices												
Tennessee Tech (N = 409)	37.2	14.0	.69	16	28	36	48	60				
Southeast Public	38.0	13.4	.06	16	28	40	48	60	44,323	-.8	.252	-.057
Carnegie Class	37.5	13.0	.07	16	28	40	48	60	416	-.3	.679	-.022
NSSE 2019 & 2020	38.4	13.2	.03	16	28	40	48	60	410	-1.2	.077	-.093
Top 50%	40.5	13.2	.05	20	32	40	52	60	412	-3.3	.000	-.251
Top 10%	42.3	14.1	.09	16	32	44	56	60	24,051	-5.1	.000	-.358
Campus Environment												
Quality of Interactions												
Tennessee Tech (N = 371)	44.8	10.9	.57	24	38	46	52	60				
Southeast Public	43.1	11.9	.06	20	36	44	52	60	378	1.7	.003	.143
Carnegie Class	42.6	11.6	.07	22	36	44	50	60	31,817	2.2	.000	.186
NSSE 2019 & 2020	43.2	11.8	.03	22	36	44	52	60	372	1.5	.008	.129
Top 50%	45.2	11.2	.04	24	38	46	54	60	80,213	-.4	.468	-.038
Top 10%	47.2	11.6	.08	25	40	50	58	60	19,674	-2.5	.000	-.211
Supportive Environment												
Tennessee Tech (N = 370)	34.3	14.1	.73	10	23	35	43	60				
Southeast Public	36.9	13.5	.07	15	28	38	45	60	40,217	-2.7	.000	-.198
Carnegie Class	35.5	13.2	.07	15	25	35	45	60	376	-1.3	.087	-.096
NSSE 2019 & 2020	36.0	13.5	.03	15	28	38	45	60	189,551	-1.7	.013	-.129
Top 50%	37.9	13.1	.04	18	30	38	48	60	371	-3.6	.000	-.276
Top 10%	40.0	12.9	.10	18	33	40	50	60	382	-5.8	.000	-.446

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												
Tennessee Tech (N = 470)	38.5	13.2	.61	20	30	40	50	60				
Southeast Public	40.0	13.8	.06	20	30	40	50	60	47,314	-1.5	.020	-.108
Carnegie Class	39.5	13.6	.07	20	30	40	50	60	38,021	-1.0	.109	-.074
NSSE 2019 & 2020	40.1	13.5	.03	20	30	40	50	60	232,302	-1.6	.011	-.117
Top 50%	41.7	13.4	.04	20	35	40	55	60	102,872	-3.2	.000	-.238
Top 10%	43.2	13.3	.08	20	35	40	55	60	25,369	-4.7	.000	-.350
Reflective & Integrative Learning												
Tennessee Tech (N = 500)	35.2	12.1	.54	14	29	34	43	57				
Southeast Public	37.8	12.6	.06	17	29	37	46	60	510	-2.6	.000	-.206
Carnegie Class	37.6	12.4	.06	17	29	37	46	60	40,349	-2.4	.000	-.191
NSSE 2019 & 2020	38.1	12.5	.03	17	29	37	46	60	246,258	-2.9	.000	-.229
Top 50%	39.8	12.2	.04	20	31	40	49	60	102,182	-4.6	.000	-.378
Top 10%	41.8	12.0	.09	20	34	40	51	60	16,899	-6.5	.000	-.544
Learning Strategies												
Tennessee Tech (N = 448)	39.2	14.3	.67	13	27	40	53	60				
Southeast Public	39.3	14.6	.07	13	27	40	53	60	44,926	-.1	.835	-.010
Carnegie Class	37.8	14.6	.08	13	27	40	47	60	36,311	1.4	.040	.098
NSSE 2019 & 2020	38.6	14.6	.03	13	27	40	53	60	222,442	.6	.407	.039
Top 50%	40.7	14.5	.04	20	33	40	53	60	113,461	-1.5	.030	-.103
Top 10%	42.7	14.4	.08	20	33	40	60	60	36,965	-3.5	.000	-.241
Quantitative Reasoning												
Tennessee Tech (N = 453)	31.8	15.4	.72	7	20	33	40	60				
Southeast Public	30.9	16.2	.08	0	20	33	40	60	462	.9	.230	.054
Carnegie Class	30.1	16.1	.08	0	20	27	40	60	36,829	1.7	.026	.105
NSSE 2019 & 2020	30.2	16.2	.03	0	20	27	40	60	454	1.6	.030	.097
Top 50%	31.4	16.1	.04	0	20	33	40	60	145,092	.4	.595	.025
Top 10%	33.4	15.9	.09	7	20	33	40	60	28,847	-1.5	.040	-.097
Learning with Peers												
Collaborative Learning												
Tennessee Tech (N = 523)	37.9	15.0	.66	15	25	40	50	60				
Southeast Public	33.9	15.0	.06	10	25	35	45	60	53,690	4.0	.000	.266
Carnegie Class	33.4	15.2	.07	5	20	35	45	60	42,297	4.5	.000	.299
NSSE 2019 & 2020	32.0	15.6	.03	5	20	30	45	60	257,579	5.9	.000	.380
Top 50%	35.9	14.0	.04	15	25	35	45	60	525	2.0	.003	.142
Top 10%	38.4	13.5	.09	15	30	40	50	60	541	-.5	.464	-.036
Discussions with Diverse Others												
Tennessee Tech (N = 450)	39.2	15.5	.73	15	30	40	55	60				
Southeast Public	41.9	15.7	.07	15	30	40	60	60	45,187	-2.7	.000	-.174
Carnegie Class	39.8	15.8	.08	15	30	40	55	60	36,470	-.6	.421	-.038
NSSE 2019 & 2020	40.2	15.9	.03	15	30	40	55	60	223,405	-1.0	.163	-.066
Top 50%	42.1	15.5	.04	15	30	40	60	60	144,681	-2.9	.000	-.186
Top 10%	43.8	15.3	.08	20	35	45	60	60	36,655	-4.6	.000	-.302

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												
Tennessee Tech (N = 487)	28.0	15.1	.68	5	20	25	40	55				
Southeast Public	24.9	16.4	.07	0	10	20	35	60	498	3.1	.000	.190
Carnegie Class	23.8	16.0	.08	0	10	20	35	55	39,075	4.2	.000	.263
NSSE 2019 & 2020	23.9	16.1	.03	0	10	20	35	55	238,503	4.1	.000	.255
Top 50%	29.7	15.9	.07	5	20	30	40	60	53,868	-1.7	.022	-.104
Top 10%	33.2	16.0	.17	10	20	35	45	60	545	-5.2	.000	-.327
Effective Teaching Practices												
Tennessee Tech (N = 467)	39.3	13.6	.63	16	32	40	48	60				
Southeast Public	39.7	14.0	.06	16	32	40	52	60	47,158	-.5	.488	-.032
Carnegie Class	39.1	13.7	.07	16	28	40	48	60	37,928	.2	.724	.016
NSSE 2019 & 2020	39.7	13.8	.03	16	32	40	52	60	232,035	-.4	.487	-.032
Top 50%	41.8	13.7	.05	20	32	40	52	60	87,847	-2.5	.000	-.182
Top 10%	43.7	13.4	.10	20	36	44	56	60	19,646	-4.4	.000	-.330
Campus Environment												
Quality of Interactions												
Tennessee Tech (N = 429)	44.3	11.2	.54	23	38	46	52	60				
Southeast Public	42.7	12.1	.06	20	36	44	52	60	438	1.6	.004	.129
Carnegie Class	42.0	12.1	.07	20	34	43	50	60	441	2.3	.000	.190
NSSE 2019 & 2020	43.0	12.1	.03	20	36	44	52	60	430	1.3	.020	.104
Top 50%	45.2	11.7	.04	24	38	48	54	60	92,217	-.9	.099	-.080
Top 10%	47.4	12.0	.07	24	40	50	58	60	442	-3.1	.000	-.257
Supportive Environment												
Tennessee Tech (N = 437)	31.1	13.6	.65	10	23	33	40	58				
Southeast Public	33.5	14.2	.07	10	23	33	43	60	43,730	-2.4	.001	-.167
Carnegie Class	31.8	14.0	.07	10	23	33	40	58	35,451	-.6	.338	-.046
NSSE 2019 & 2020	32.2	14.2	.03	10	23	33	40	60	217,181	-1.1	.106	-.077
Top 50%	34.6	14.0	.05	13	25	35	45	60	96,524	-3.5	.000	-.249
Top 10%	36.8	14.1	.11	13	28	38	48	60	17,639	-5.7	.000	-.404

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.