

Tennessee Technological University



About This Report

About Your Engagement Indicators Report

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

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

Report Sections

Overview (p. 3)

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

Theme Reports (pp. 4-13)

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

Mean Comparisons

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

Score Distributions

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

Performance on Indicator Items

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

Comparisons with High-Performing Institutions (p. 15) Comparisons of your students' average scores on each EI with those of students at institutions whose average scores were in the top 50% and top 10% of 2018 and 2019 participating institutions.

Detailed Statistics (pp. 16-19)

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

Interpreting Comparisons

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

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

How Engagement Indicators are Computed

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

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

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



Overview

Tennessee Technological University

Engagement Indicators: Overview

Engagement Indicator

Higher-Order Learning

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

Your first-year students

compared with

Carnegie Class

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abla}$

Your first-year students

compared with

Quality Assurance

Your first-year students

compared with

NSSE 2018 & 2019

Use the following key:

First-Year Students

Theme

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

Academic	Reflective & Integrative Learning	∇	∇	∇
Challenge	Learning Strategies	\triangle		
	Quantitative Reasoning			
Learning with	Collaborative Learning		Δ	Δ
Peers	Discussions with Diverse Others	∇		
Experiences	Student-Faculty Interaction			
with Faculty	Effective Teaching Practices			
Campus	Quality of Interactions	Δ	Δ	Δ
Environment	Supportive Environment		∇	
eniors		Your seniors compared with	Your seniors compared with	Your seniors compared with
Theme	Engagement Indicator	Carnegie Class	Quality Assurance	NSSE 2018 & 2019
Theme	Higher-Order Learning		∇	
Academic		-		
	Higher-Order Learning		∇	 ▼
Academic	Higher-Order Learning Reflective & Integrative Learning		∇	
Academic	Higher-Order Learning Reflective & Integrative Learning Learning Strategies		∇	 ▼
Academic Challenge	Higher-Order Learning Reflective & Integrative Learning Learning Strategies Quantitative Reasoning	~~ V 	▽ ▽ △	 ▼
Academic Challenge Learning with	Higher-Order Learning Reflective & Integrative Learning Learning Strategies Quantitative Reasoning Collaborative Learning	 ∇ 	▽ ▽ △	▼_
Academic Challenge Learning with Peers	Higher-Order Learning Reflective & Integrative Learning Learning Strategies Quantitative Reasoning Collaborative Learning Discussions with Diverse Others	~~ ∇ ~~ ~~ Δ ∇	▽ ▽ △	~~~ \[\sum_{\limits} \]
Academic Challenge Learning with Peers Experiences	Higher-Order Learning Reflective & Integrative Learning Learning Strategies Quantitative Reasoning Collaborative Learning Discussions with Diverse Others Student-Faculty Interaction	~~ ∇ ~~ ~~ Δ ∇	▽ ▽ △	~~~ ∇ ~~ Δ ∇



Academic Challenge

Tennessee Technological University

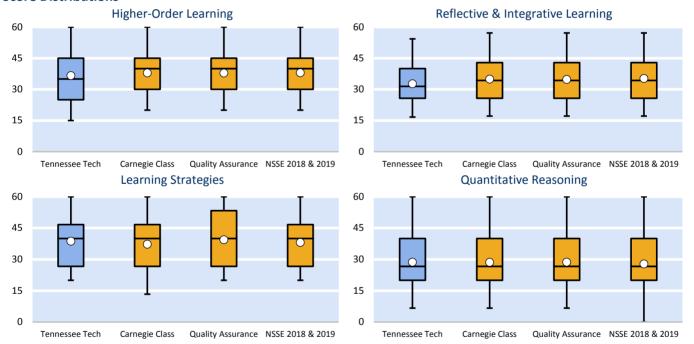
Academic Challenge: First-year students

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	Tennessee	Your first-year students compared with					
	Tech	Carnegie Class Effect	Quality Assurance Effect	NSSE 2018 & 2019 Effect			
Engagement Indicator	Mean	Mean size	Mean size	Mean size			
Higher-Order Learning	36.6	38.0 *10	37.909	38.0 *10			
Reflective & Integrative Learning	32.7	35.0 ***19	34.8 ***17	35.2 ***21			
Learning Strategies	38.7	37.3 * .10	39.405	38.1 .04			
Quantitative Reasoning	28.7	28.6 .01	28.7 .00	27.8 .06			

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

Tennessee Technological University

Academic Challenge: First-year students (continued)

Performance on Indicator Items

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

		Percentage point d	fference ^a between yo	ur FY students and
Higher-Order Learning	Tennessee Tech	Carnagia Class	Quality Assurance	NSSE 2018 & 2019
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized		carriegie ciass	Assurance	2013
4b. Applying facts, theories, or methods to practical problems or new situations	% 72	-2	+3	+1
40. Applying locally alcohology of methods to proceed prosterior of methods to proceed	,,,	\ -		17 1
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	66	-4	-2	-3
4d. Evaluating a point of view, decision, or information source	59	-7	-10	-10
4e. Forming a new idea or understanding from various pieces of information	62	-5	-7	-6
Reflective & Integrative Learning				
Percentage of students who responded that they "Very often" or "Often"				
2a. Combined ideas from different courses when completing assignments	50	-2	-0	-2
2b. Connected your learning to societal problems or issues	39	-12	-9	-13
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	43	-7	-7	-9
2d. Examined the strengths and weaknesses of your own views on a topic or issue	57	-6	-7	-7
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	64	-6	-5	-7
2f. Learned something that changed the way you understand an issue or concept	61	-5	-4	-5
2g. Connected ideas from your courses to your prior experiences and knowledge	73	-4	-2	-4
Learning Strategies				
Percentage of students who responded that they "Very often" or "Often"				
9a. Identified key information from reading assignments	72	-1	-1	-3
9b. Reviewed your notes after class	73	+10	+3	+8
9c. Summarized what you learned in class or from course materials	64	+3	-2	+1
Quantitative Reasoning				
Percentage of students who responded that they "Very often" or "Often"				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	60	+5	+4	+8
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	38	-2	-2	-1
6c. Evaluated what others have concluded from numerical information	36	-5	-4	-3

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

Tennessee Technological University

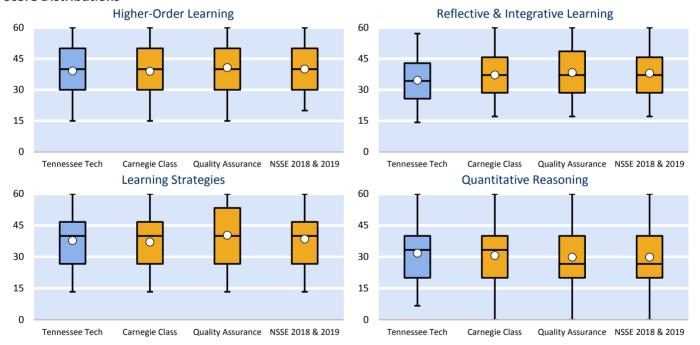
Academic Challenge: Seniors

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	Tennessee			Your seniors comp	pared with		
	Tech	Carnegie	Class Effect	Quality As	ssurance Effect	NSSE 2018	8 & 2019 Effect
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Higher-Order Learning	39.1	39.0	.01	40.7 *	11	40.0	06
Reflective & Integrative Learning	34.6	37.2 ***	21	38.4 ***	29	38.0 ***	27
Learning Strategies	37.7	37.0	.05	40.3 ***	18	38.5	05
Quantitative Reasoning	31.8	30.6	.07	29.8 *	.12	29.8 **	.12

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

Tennessee Technological University

Academic Challenge: Seniors (continued)

Performance on Indicator Items

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

		Percentage point	difference ^a between	your seniors and
Higher-Order Learning	Tennessee Tech	Carnegie Class	Quality Assurance	NSSE 2018 & 2019
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized	%			
4b. Applying facts, theories, or methods to practical problems or new situations	80	+3	+2	+3
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	73	-1	-4	-2
4d. Evaluating a point of view, decision, or information source	60	-6	-11	-11
4e. Forming a new idea or understanding from various pieces of information	66	-2	-7	-6
Reflective & Integrative Learning				
Percentage of students who responded that they "Very often" or "Often"				
2a. Combined ideas from different courses when completing assignments	72	+3	+3	+4
2b. Connected your learning to societal problems or issues	51	-7	-11	-10
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	39	-10	-15	-14
2d. Examined the strengths and weaknesses of your own views on a topic or issue	56	-8	-12	-10
Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	62	-10	-11	-11
2f. Learned something that changed the way you understand an issue or concept	62	-9	-10	-10
2g. Connected ideas from your courses to your prior experiences and knowledge	78	-4	-5	-5
Learning Strategies				
Percentage of students who responded that they "Very often" or "Often"				
9a. Identified key information from reading assignments	69	-7	-10	-10
9b. Reviewed your notes after class	69	+11	-1	+7
9c. Summarized what you learned in class or from course materials	62	+2	-7	-2
Quantitative Reasoning				
Percentage of students who responded that they "Very often" or "Often"				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	63	+5	+7	+7
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	48	+2	+3	+3
6c. Evaluated what others have concluded from numerical information	47	-1	+3	+2

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Learning with Peers

Tennessee Technological University

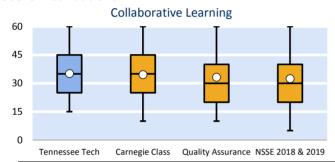
Learning with Peers: First-year students

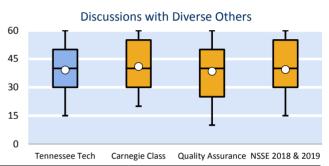
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons	Tennessee		Your	first-year student:	s compared w	rith	
	Tech	Carnegio	e Class Effect	Quality A	ssurance Effect	NSSE 2018	3 & 2019 Effect
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Collaborative Learning	35.2	34.5	.04	33.2 **	.14	32.4 ***	.19
Discussions with Diverse Others	39.2	41.0 **	13	38.4	.05	39.4	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





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Performance on Indicator Items

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	Percentage point of	tage point difference ^a between your FY students and		
Tennessee Tech	Carnegie Class	Quality Assurance	NSSE 2018 & 2019	
%				
62	+4	+7	+9	
63	-1	+5	+5	
55	ļ -o	+2	+5	
63	+5	+10	+8	
66	-8	+0	-4	
73	-2	+4	+2	
66	-6	+1	-1	
72	+6	+8	+8	
	% 62 63 55 63	Tennessee Tech Carnegie Class % 62 +4 63 -1 55 -0 63 +5 66 -8 73 -2 66 -6	Quality Assurance	

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

Tennessee Technological University

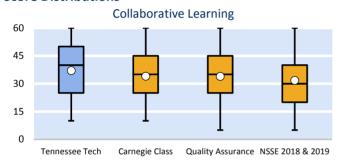
Learning with Peers: Seniors

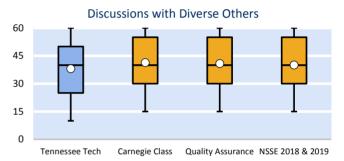
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Mean Comparisons	Tennessee		Your seniors compared with	
	Tech	Carnegie Class Effect	Quality Assurance Effect	NSSE 2018 & 2019 Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Collaborative Learning	37.0	34.0 *** .20	33.9 *** .20	31.8 *** .33
Discussions with Diverse Others	38.1	41.4 ***21	40.8 ***17	40.1 **12

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

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		Percentage point difference ^a between your seniors and			
Collaborative Learning		Camanaia Class	Quality	NSSE 2018 &	
Collaborative Learning	Tennessee Tech	Carnegie Class	Assurance	2019	
Percentage of students who responded that they "Very often" or "Often"	%				
1e. Asked another student to help you understand course material	51	+3	+4	+8	
1f. Explained course material to one or more students	68	+5	+4	+10	
1g. Prepared for exams by discussing or working through course material with other students	57	+6	+4	+11	
1h. Worked with other students on course projects or assignments	75	+8	+12	+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	61	-13	-9	-10	
8b. People from an economic background other than your own	71	-4	-3	-1	
8c. People with religious beliefs other than your own	64	-8	-4	-3	
8d. People with political views other than your own	69	+3	-0	+4	

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Experiences with Faculty

Tennessee Technological University

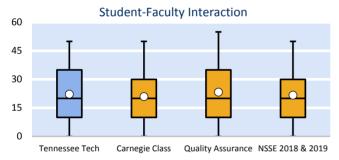
Experiences with Faculty: First-year students

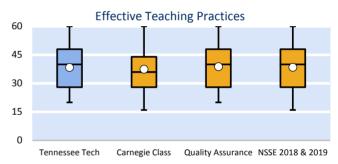
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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	Tennessee		Your first-year students compared with						
	Tech Carnegie Cla		gie Class	ss Quality Assurance		NSSE 2018 & 2019			
			Effect		Effect		Effect		
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size		
Student-Faculty Interaction	22.2	21.0	.08	23.2	07	21.7	.04		
Effective Teaching Practices	38.3	37.4	.07	38.8	04	38.5	01		

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		Percentage poin	t difference ^a	between yo	our FY studei	nts and
Student-Faculty Interaction		Carnegie Class	-	ality rance		2018 &)19
Percentage of students who responded that they "Very often" or "Often"	%					
3a. Talked about career plans with a faculty member	43	+6		-2	+4	
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	22	+1		-2	+0)
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	26	+1		-3		-1
3d. Discussed your academic performance with a faculty member	31	+3	(-5		-0
Effective Teaching Practices				-		
Percentage responding "Very much" or "Quite a bit" about how much instructors have						
5a. Clearly explained course goals and requirements	78	+1	+2	1	+1)
5b. Taught course sessions in an organized way	75	+1	+2	1	+1	
5c. Used examples or illustrations to explain difficult points	77	+3	+2	1	+3	Ì
5d. Provided feedback on a draft or work in progress	59	+1		-7		-5
5e. Provided prompt and detailed feedback on tests or completed assignments	54	-0		-6		-6

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Experiences with Faculty Tennessee Technological University

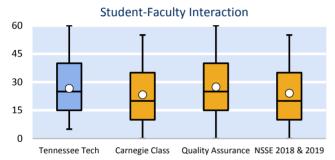
Experiences with Faculty: Seniors

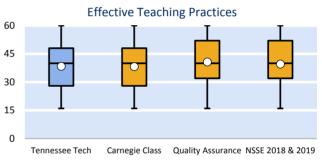
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Student-Faculty Interaction	26.6	23.2 *** .2:	1 27.3	05	24.1 ***	.16	
Effective Teaching Practices	38.4	38.2 .03	1 40.6 ***	16	39.6 *	09	

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Student-Faculty Interaction	Tennessee Tech	Carnegie			ality rance		2018 &)19	
Percentage of students who responded that they "Very often" or "Often"	%							
3a. Talked about career plans with a faculty member	48	+7			-4	+4		
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	35	+7		+3		+7		
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	37	+7			-2	+5		
3d. Discussed your academic performance with a faculty member	37	+8			-5	+3)	
Effective Teaching Practices								
Percentage responding "Very much" or "Quite a bit" about how much instructors have								
5a. Clearly explained course goals and requirements	79		-1		-4		-1	
5b. Taught course sessions in an organized way	73	Į.	-3		-2		-4	
5c. Used examples or illustrations to explain difficult points	78	+2		+0		+1		
5d. Provided feedback on a draft or work in progress	56	+1			-9		-5	
5e. Provided prompt and detailed feedback on tests or completed assignments	61	+3			-5		-3	

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

Tennessee Technological University

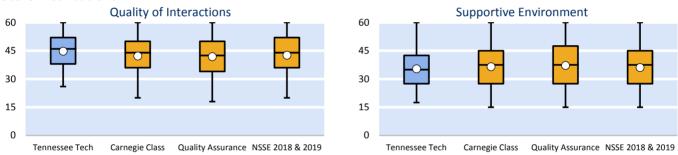
Campus Environment: First-year students

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	Tennessee	Your first-year students compared with									
	Tech	Carnegie Class	Quality Assurance	NSSE 2018 & 2019							
		Effect	Effect	Effect							
Engagement Indicator	Mean	Mean size	Mean size	Mean size							
Quality of Interactions	44.8	42.3 *** .22	41.9 *** .24	42.6 *** .18							
Supportive Environment	35.4	36.508	37.2 **14	36.105							

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

Score Distributions



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

Performance on Indicator Items

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

		Percentage point difference ^a between your FY stude						
Quality of Interactions	Tennessee Tech	Carnegie Class	Quality Assurance	NSSE 2018 & 2019				
Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with	%							
13a. Students	57	+6	+8	+6				
13b. Academic advisors	60	+8	+7	+7				
13c. Faculty	55	+8	+6	+4				
13d. Student services staff (career services, student activities, housing, etc.)	53	+8	+7	+7				
13e. Other administrative staff and offices (registrar, financial aid, etc.)	50	+9	+7	+5				
Supportive Environment								
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized								
14b. Providing support to help students succeed academically	76	+0	+0	+0				
14c. Using learning support services (tutoring services, writing center, etc.)	78	+1	-2	+1				
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	56	-6	-5	-5				
14e. Providing opportunities to be involved socially	73	-0	+0	+2				
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	71	-0	-1	+2				
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	35	-6	-10	-7				
14h. Attending campus activities and events (performing arts, athletic events, etc.)	67	-1	-2	+3				
14i. Attending events that address important social, economic, or political issues	42	-7	-8	-6				

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

Tennessee Technological University

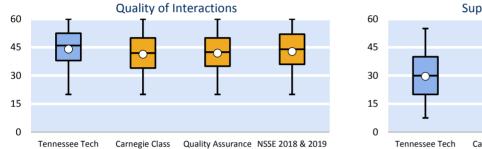
Campus Environment: Seniors

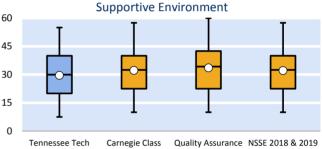
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

Mean Comparisons	Tennessee		Your seniors compared with	
	Tech	Carnegie Class Effect	Quality Assurance Effect	NSSE 2018 & 2019 Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Quality of Interactions	44.1	41.4 *** .22	41.9 *** .17	42.8 * .11
Supportive Environment	29.6	32.2 ***19	33.6 ***28	32.2 ***19

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

Score Distributions





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

Performance on Indicator Items

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

		Percentage point	oint difference ^a between your seniors and		
			Quality	NSSE 2018 &	
Quality of Interactions	Tennessee Tech	Carnegie Class	Assurance	2019	
$Percentage\ rating\ their\ interactions\ a\ 6\ or\ 7\ (on\ a\ scale\ from\ 1="Poor"\ to\ 7="Excellent")\ with$	%				
13a. Students	66	+11	+10	+10	
13b. Academic advisors	58	+10	+6	+5	
13c. Faculty	54	+3	-2	-3	
13d. Student services staff (career services, student activities, housing, etc.)	46	+5	+3	+2	
13e. Other administrative staff and offices (registrar, financial aid, etc.)	47	+9	+9	+2	
Supportive Environment					
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized					
14b. Providing support to help students succeed academically	68	+0	-2	-3	
14c. Using learning support services (tutoring services, writing center, etc.)	60	-3	-6	-6	
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	46	-7	-10	-8	
14e. Providing opportunities to be involved socially	60	-5	-8	-4	
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	54	-7	-9	-5	
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	22	-6	-11	-9	
14h. Attending campus activities and events (performing arts, athletic events, etc.)	46	-12	-12	-6	
14i. Attending events that address important social, economic, or political issues	31	-10	-15	-10	
Note Defente E. C.		1	d	1 1 1	

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

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Comparisons with High-Performing Institutions Tennessee Technological University

Comparisons with Top 50% and Top 10% Institutions

While NSSE's policy is not to rank institutions (see nsse.indiana.edu/links/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 2018 and 2019 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2018 and 2019 NSSE institutions.

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

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

First-Year	Students		Your first-year students compared with							
		Tennessee Tech	NSSE T	op 50%		NSSE T	op 10%			
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓		
	Higher-Order Learning	36.6	39.3 ***	21		41.0 ***	34			
Academic	Reflective and Integrative Learning	32.7	36.8 ***	34		38.8 ***	51			
Challenge	Learning Strategies	38.7	39.9	09	✓	42.5 ***	27			
	Quantitative Reasoning	28.7	29.3	04	✓	30.8 **	13			
Learning	Collaborative Learning	35.2	35.4	02	✓	37.7 ***	18			
with Peers	Discussions with Diverse Others	39.2	41.3 **	15		43.2 ***	28			
Experiences	Student-Faculty Interaction	22.2	24.9 ***	19		28.0 ***	37			
with Faculty	Effective Teaching Practices	38.3	40.6 ***	17		42.7 ***	31			
Campus	Quality of Interactions	44.8	44.9	01	✓	47.1 ***	20			
Environment	Supportive Environment	35.4	38.1 ***	20		40.1 ***	35			
Seniors				Your s	eniors c	ompared with	41.0 ***34 38.8 ***51 42.5 ***27 30.8 **13 37.7 ***18 43.2 ***28 28.0 ***37 42.7 ***31 47.1 ***20 40.1 ***35 ed with NSSE Top 10%			
		Tennessee Tech	NSSE T	op 50%		NSSE T	op 10%			
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓		
	Higher-Order Learning	39.1	41.8 ***	20		43.0 ***	29			
Academic	Reflective and Integrative Learning	34.6	39.9 ***	43		41.6 ***	57			
Challenge	Learning Strategies	37.7	40.8 ***	21		42.6 ***	34			
	Quantitative Reasoning	31.8	31.3	.03	✓	32.7	06	✓		
Learning	Collaborative Learning	37.0	36.1	.06	✓	38.6 **	12			
with Peers	Discussions with Diverse Others	38.1	42.0 ***	25		43.5 ***	35			
Experiences	Student-Faculty Interaction	26.6	29.9 ***	21		33.9 ***	46			
with Faculty	Effective Teaching Practices	38.4	41.8 ***	25		43.5 ***	38			
Campus	Quality of Interactions	44.1	45.2 *	09		47.4 ***	28			
Environment	Supportive Environment	29.6	34.8 ***	37		37.0 ***	53			

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 2018 and 2019 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^a Tennessee Technological University

Detailed Statistics: First-Year Students

	Mea	ın statisti	cs		Perce	ntile ^d sco	ores		Co	Comparison results		
		h	-						Deg. of	Mean	f	Effect
A ser de maio Che III a mes	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g
Academic Challenge												
Higher-Order Learning	26.6	10.5	60	1.5	25	25	4.5	60				
Tennessee Tech $(N = 515)$	36.6	13.7	.60	15	25	35	45	60	524	1.2	020	100
Carnegie Class	38.0	12.9	.06	20	30	40	45	60	524	-1.3	.030	102
Quality Assurance	37.9	13.3	.27	20	30	40	45	60	2,997	-1.3	.053	094
NSSE 2018 & 2019	38.0	13.2	.03	20	30	40	45	60	516	-1.4	.025	103
Top 50%	39.3	13.0	.04	20	30	40	50	60	518	-2.7	.000	208
Top 10%	41.0	13.0	.08	20	35	40	50	60	530	-4.4	.000	336
Reflective & Integrative Learni	ng											
Tennessee Tech $(N = 549)$	32.7	11.3	.48	17	26	31	40	54				
Carnegie Class	35.0	11.8	.05	17	26	34	43	57	51,272	-2.2	.000	188
Quality Assurance	34.8	12.3	.24	17	26	34	43	57	839	-2.1	.000	171
NSSE 2018 & 2019	35.2	12.0	.03	17	26	34	43	57	551	-2.5	.000	210
Top 50%	36.8	11.8	.04	17	29	37	46	57	113,753	-4.1	.000	343
Top 10%	38.8	11.8	.08	20	31	40	46	60	23,991	-6.0	.000	513
Learning Strategies												
Tennessee Tech (N = 490)	38.7	13.5	.61	20	27	40	47	60				
Carnegie Class	37.3	13.7	.06	13	27	40	47	60	45,472	1.4	.024	.103
Quality Assurance	39.4	14.0	.29	20	27	40	53	60	2,840	7	.300	051
NSSE 2018 & 2019	38.1	13.8	.03	20	27	40	47	60	199,761	.6	.354	.042
Top 50%	39.9	13.7	.04	20	33	40	53	60	97,173	-1.2	.059	085
Top 10%	42.5	14.0	.09	20	33	40	53	60	512	-3.7	.000	267
Quantitative Reasoning												
Tennessee Tech $(N = 490)$	28.7	14.7	.66	7	20	27	40	60				
Carnegie Class	28.6	15.1	.07	7	20	27	40	60	46,252	.1	.891	.006
Quality Assurance	28.7	15.4	.32	7	20	27	40	60	2,885	.0	.999	.000
NSSE 2018 & 2019	27.8	15.3	.03	0	20	27	40	60	202,859	.9	.197	.058
Top 50%	29.3	15.2	.04	7	20	27	40	60	117,848	5	.432	036
Top 10%	30.8	15.2	.09	7	20	33	40	60	32,041	-2.0	.003	135
Learning with Peers												
Collaborative Learning												
Tennessee Tech $(N = 570)$	35.2	13.3	.56	15	25	35	45	60				
Carnegie Class	34.5	14.1	.06	10	25	35	45	60	583	.6	.264	.044
Quality Assurance	33.2	14.6	.28	10	20	30	40	60	874	2.0	.001	.139
NSSE 2018 & 2019	32.4	14.7	.03	5	20	30	40	60	573	2.8	.000	.188
Top 50%	35.4	13.7	.04	15	25	35	45	60	122,815	2	.666	018
Top 10%	37.7	13.6	.08	15	30	40	50	60	26,988	-2.5	.000	184
Discussions with Diverse Other	rc											
Tennessee Tech (N = 491)	39.2	14.7	.67	15	30	40	50	60				
Carnegie Class	41.0	14.9	.07	20	30	40	55	60	45,837	-1.9	.006	126
Quality Assurance	38.4	16.0	.33	10	25	40	50	60	748	-1.9 .7	.324	.046
NSSE 2018 & 2019	39.4	15.6	.03	15	30	40	55	60	201,246	2	.743	015
Top 50%	41.3	14.9	.03	20	30	40	55 55	60	117,146	-2.2	.001	013
Top 10%	43.2	14.9	.04	20	35	40	55 60	60	26,658	-2.2 -4.1	.000	143
10h 10%	+J.∠	17.4	.07	20	33	40	00	00	20,036	- -+ .1	.000	203



Detailed Statistics^a Tennessee Technological University

Detailed Statistics: First-Year Students

	Mea	n statisti	CS	Percentile ^d scores				Comparison results				
									Deg. of	Mean		Effect
	Mean	SD ^b	SE c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g
Experiences with Faculty												
Student-Faculty Interaction												
Tennessee Tech $(N = 521)$	22.2	14.8	.65	0	10	20	35	50				
Carnegie Class	21.0	14.3	.06	0	10	20	30	50	531	1.2	.062	.085
Quality Assurance	23.2	15.7	.31	0	10	20	35	55	3,074	-1.1	.152	069
NSSE 2018 & 2019	21.7	14.7	.03	0	10	20	30	50	216,669	.5	.423	.035
Top 50%	24.9	14.8	.05	5	15	20	35	55	76,979	-2.8	.000	186
Top 10%	28.0	15.5	.14	5	15	25	40	60	12,478	-5.8	.000	374
Effective Teaching Practices												
Tennessee Tech $(N = 512)$	38.3	12.5	.55	20	28	40	48	60				
Carnegie Class	37.4	12.7	.06	16	28	36	44	60	47,756	.9	.093	.075
Quality Assurance	38.8	13.1	.26	20	28	40	48	60	2,996	5	.448	037
NSSE 2018 & 2019	38.5	13.2	.03	16	28	40	48	60	209,905	1	.828	010
Top 50%	40.6	13.2	.05	20	32	40	52	60	85,775	-2.3	.000	172
Top 10%	42.7	14.0	.09	20	32	44	56	60	541	-4.4	.000	311
Campus Environment												
Quality of Interactions												
Tennessee Tech $(N = 476)$	44.8	10.0	.46	26	38	46	52	60				
Carnegie Class	42.3	11.6	.06	20	36	44	50	60	489	2.5	.000	.218
Quality Assurance	41.9	12.5	.26	18	34	43	50	60	824	2.9	.000	.237
NSSE 2018 & 2019	42.6	12.1	.03	20	36	44	52	60	478	2.1	.000	.177
Top 50%	44.9	11.5	.04	24	38	46	54	60	483	1	.877	006
Top 10%	47.1	11.8	.08	24	40	50	58	60	507	-2.3	.000	195
Supportive Environment												
Tennessee Tech $(N = 483)$	35.4	12.0	.55	18	28	35	43	60				
Carnegie Class	36.5	13.0	.06	15	28	38	45	60	495	-1.1	.051	083
Quality Assurance	37.2	13.6	.28	15	28	38	48	60	764	-1.8	.003	135
NSSE 2018 & 2019	36.1	13.5	.03	15	28	38	45	60	485	7	.226	049
Top 50%	38.1	13.2	.04	18	30	40	48	60	488	-2.7	.000	204
Top 10%	40.1	13.2	.09	18	30	40	50	60	511	-4.6	.000	353

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^a Tennessee Technological University

Detailed Statistics: Seniors

	Mea	n statisti	cs		Percei	ntile ^d scc	res		Co	Comparison results		
		h	6						Deg. of	Mean	f	Effect
A sa de maio Chellenno	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g
Academic Challenge												
Higher-Order Learning	20.4				20	40	~ 0					
Tennessee Tech $(N = 550)$	39.1	14.5	.62	15	30	40	50	60			00.5	044
Carnegie Class	39.0	13.6	.06	15	30	40	50	60	558	.2	.806	.011
Quality Assurance	40.7	14.0	.31	15	30	40	50	60	2,602	-1.6	.019	112
NSSE 2018 & 2019	40.0	13.6	.03	20	30	40	50	60	551	9	.158	064
Top 50%	41.8	13.5	.04	20	35	40	55	60	554	-2.6	.000	195
Top 10%	43.0	13.5	.08	20	35	40	55	60	26,306	-3.9	.000	287
Reflective & Integrative Learni	ng											
Tennessee Tech $(N = 576)$	34.6	12.8	.53	14	26	34	43	57				
Carnegie Class	37.2	12.4	.05	17	29	37	46	60	60,680	-2.6	.000	205
Quality Assurance	38.4	12.6	.27	17	29	37	49	60	2,744	-3.7	.000	294
NSSE 2018 & 2019	38.0	12.4	.03	17	29	37	46	60	238,061	-3.4	.000	270
Top 50%	39.9	12.2	.04	20	31	40	49	60	90,822	-5.2	.000	430
Top 10%	41.6	12.2	.09	20	34	40	51	60	18,200	-6.9	.000	568
Learning Strategies												
Tennessee Tech $(N = 529)$	37.7	15.1	.66	13	27	40	47	60				
Carnegie Class	37.0	14.5	.06	13	27	40	47	60	54,848	.7	.274	.048
Quality Assurance	40.3	14.4	.32	13	27	40	53	60	2,512	-2.6	.000	180
NSSE 2018 & 2019	38.5	14.5	.03	13	27	40	47	60	217,367	7	.240	051
Top 50%	40.8	14.4	.05	20	33	40	53	60	99,332	-3.1	.000	213
Top 10%	42.6	14.3	.08	20	33	40	60	60	32,032	-4.9	.000	340
Overstitetive Beressine												
Quantitative Reasoning				_				-0				
Tennessee Tech $(N = 535)$	31.8	16.0	.69	7	20	33	40	60				
Carnegie Class	30.6	15.9	.07	0	20	33	40	60	55,664	1.1	.110	.070
Quality Assurance	29.8	16.7	.37	0	20	27	40	60	2,531	1.9	.018	.116
NSSE 2018 & 2019	29.8	16.1	.03	0	20	27	40	60	220,059	1.9	.006	.119
Top 50%	31.3	16.0	.05	7	20	33	40	60	121,541	.5	.496	.029
Top 10%	32.7	15.8	.09	7	20	33	40	60	34,235	-1.0	.150	063
Learning with Peers												
Collaborative Learning												
Tennessee Tech $(N = 595)$	37.0	14.6	.60	10	25	40	50	60				
Carnegie Class	34.0	14.9	.06	10	25	35	45	60	63,425	3.0	.000	.202
Quality Assurance	33.9	15.6	.33	5	25	35	45	60	2,838	3.1	.000	.202
NSSE 2018 & 2019	31.8	15.7	.03	5	20	30	40	60	598	5.2	.000	.332
Top 50%	36.1	14.0	.04	15	25	35	45	60	105,622	.9	.114	.065
Top 10%	38.6	13.5	.10	15	30	40	50	60	631	-1.6	.009	117
Discussions with Diverse Othe	rs											
Tennessee Tech $(N = 533)$	38.1	15.7	.68	10	25	40	50	60				
Carnegie Class	41.4	15.4	.07	15	30	40	55	60	55,189	-3.3	.000	212
Quality Assurance	40.8	15.8	.35	15	30	40	55	60	2,533	-2.7	.000	173
NSSE 2018 & 2019	40.1	16.0	.03	15	30	40	55	60	218,191	-2.0	.004	124
Top 50%	42.0	15.6	.04	15	30	40	60	60	121,075	-3.9	.000	251
Top 10%	43.5	15.4	.09	20	35	45	60	60	32,621	-5.4	.000	352
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Detailed Statistics^a Tennessee Technological University

Detailed Statistics: Seniors

	Mea	n statisti	CS		Percentile ^d scores					mparison	results	
									Deg. of	Mean		Effect
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g
Experiences with Faculty												
Student-Faculty Interaction												
Tennessee Tech $(N = 558)$	26.6	16.3	.69	5	15	25	40	60				
Carnegie Class	23.2	15.7	.06	0	10	20	35	55	567	3.4	.000	.214
Quality Assurance	27.3	16.9	.37	0	15	25	40	60	2,651	8	.337	046
NSSE 2018 & 2019	24.1	16.1	.03	0	10	20	35	55	231,110	2.5	.000	.156
Top 50%	29.9	15.9	.07	5	20	30	40	60	49,520	-3.3	.000	206
Top 10%	33.9	15.8	.18	10	20	35	45	60	7,979	-7.3	.000	464
Effective Teaching Practices												
Tennessee Tech $(N = 546)$	38.4	14.1	.60	16	28	40	48	60				
Carnegie Class	38.2	13.4	.06	16	28	40	48	60	555	.2	.782	.013
Quality Assurance	40.6	14.4	.32	16	32	40	52	60	2,605	-2.3	.001	159
NSSE 2018 & 2019	39.6	13.8	.03	16	32	40	52	60	226,182	-1.2	.040	088
Top 50%	41.8	13.6	.05	20	32	40	52	60	79,455	-3.4	.000	250
Top 10%	43.5	13.5	.09	20	36	44	56	60	22,081	-5.2	.000	381
Campus Environment												
Quality of Interactions												
Tennessee Tech $(N = 495)$	44.1	12.0	.54	20	38	46	53	60				
Carnegie Class	41.4	12.1	.05	20	34	42	50	60	51,343	2.7	.000	.223
Quality Assurance	41.9	12.5	.29	20	35	43	50	60	2,326	2.1	.001	.171
NSSE 2018 & 2019	42.8	12.2	.03	20	36	44	52	60	202,200	1.3	.018	.106
Top 50%	45.2	11.8	.04	23	38	48	54	60	87,745	-1.1	.038	093
Top 10%	47.4	12.0	.07	24	40	50	58	60	29,138	-3.3	.000	276
Supportive Environment												
Tennessee Tech $(N = 515)$	29.6	14.1	.62	8	20	30	40	55				
Carnegie Class	32.2	13.8	.06	10	23	33	40	58	53,739	-2.7	.000	193
Quality Assurance	33.6	14.4	.33	10	23	34	43	60	2,442	-4.1	.000	284
NSSE 2018 & 2019	32.2	14.1	.03	10	23	33	40	58	212,979	-2.6	.000	185
Top 50%	34.8	13.9	.05	13	25	35	45	60	85,656	-5.2	.000	372
Top 10%	37.0	14.0	.11	13	28	38	48	60	16,640	-7.4	.000	526

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.