

NSSE 2021
Engagement Indicators
Tennessee

NSSE 2021 Engagement Indicators

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
<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 2020 and 2021 participating institutions.

Detailed Statistics (pp. 16-19)

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

Interpreting Comparisons

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

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

How Engagement Indicators are Computed

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

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

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

Engagement Indicators: Overview

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>
	Higher Order Learning
	Reflective & Integrative Learning
	Learning Strategies
	Quantitative Reasoning
	Collaborative Learning
	Discussions with Diverse Others

NSSE 2021 Engagement Indicators

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

Engagement Indicator	Tennessee Tech Mean	Your first year students compared with					
		Carnegie Public		Southeast Public		NSSE 2020 & 2021	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher Order Learning	35.7	36.9	.09	37.4 *	.12	37.8 **	.16
Reflective & Integrative Learning	32.0	34.3 ***	.19	34.3 ***	.19	34.9 ***	.24
Learning Strategies	37.8	37.4	.03	38.3	.04	38.2	.03
Quantitative Reasoning							.00

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

Score Distributions

Higher OrderOrderHigher

NSSE 2021 Engagement Indicators

Academic Challenge

Tennessee Technological University

Academic Challenge: Seniors

Mean Comparisons

Engagement Indicator	Mean	Effect size	Mean	Effect size	Mean	Effect size	
Higher Order Learning	39.3 *	.10	39.7 **	.13	39.9 **	.15	
Reflective & Integrative Learning	37.1 ***	.14	***		***		
Learning Strategies							
Quantitative Reasoning	32.1	29.7 **	.15	30.8	.08	30.4 *	.11

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

Score Distributions

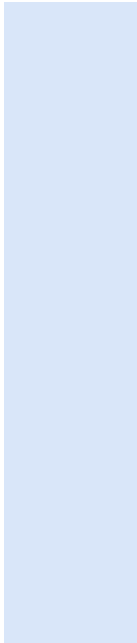
Higher Order Learning

Reflective & Integrative Learning

Learning Strategies

Quantitative Reasoning

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.



NSSE 2021 Engagement Indicators

Learning with Peers

Tennessee Technological University

Learning with Peers: First year students

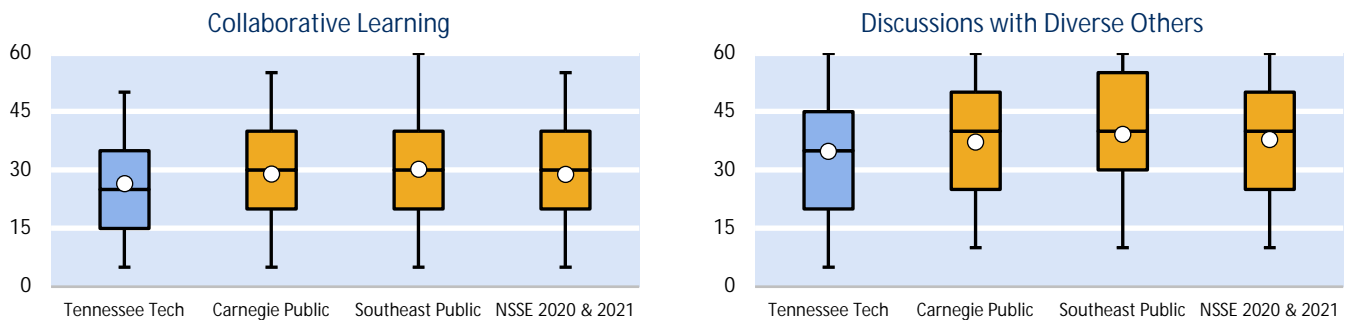
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your first year students compared with					
		Carnegie Public		Southeast Public		NSSE 2020 & 2021	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	26.6	29.0 ***	.17	30.2 ***	.25	29.0 ***	.16
Discussions with Diverse Others	34.9	37.2 **	.15	39.2 ***	.27	37.9 ***	.18

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.

	Tennessee Tech	Percentage point difference ^a between your FY students and		
		Carnegie Public	Southeast Public	NSSE 2020 & 2021
Collaborative Learning				
Percentage of students who responded that they "Very often" or "Often"...				
1b. Asked another student to help you understand course material	43	2	5	2
1c. Explained course material to one or more students	46	3	6	3
1d. Prepared for exams by discussing or working through course material with other students	37	4	7	5
1e. Worked with other students on course projects or assignments	33	13	15	14
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	57	8	13	11
8b. People from an economic background other than your own	60	7	10	8
8c. People with religious beliefs other than your own	56	7	10	7
8d. People with political views other than your own	63	+2	2	+2

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

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

NSSE 2021 Engagement Indicators

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

Engagement Indicator	Tennessee Tech Mean	Your first year students compared with					
		Carnegie Public		Southeast Public		NSSE 2020 & 2021	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Student Faculty Interaction	19.9						
Effective Teaching Practices		36.7	.06	37.2	.09	38.0 **	.16

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

Score Distributions

Student Faculty Interaction

Effective Teaching Practices

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.

Student Faculty Interaction

Percentage of students who responded that they "Very often" or "Often"...

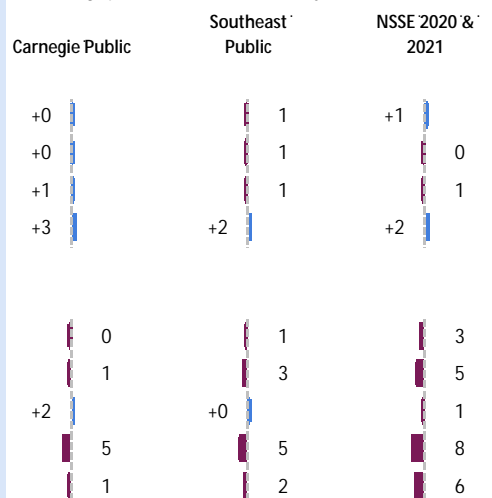
Item	%
3a. Talked about career plans with a faculty member	36
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	18
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	23
3d. Discussed your academic performance with a faculty member	30

Effective Teaching Practices

Percentage responding "Very much" or "Quite a bit" about how much instructors have...

Item	%
5a. Clearly explained course goals and requirements	73
5b. Taught course sessions in an organized way	67
5c. Used examples or illustrations to explain difficult points	71
5d. Provided feedback on a draft or work in progress	55
5e. Provided prompt and detailed feedback on tests or completed assignments	53

Percentage point difference^a between your FY students and



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NSSE 2021 Engagement Indicators

Experiences with Faculty

Tennessee Technological University

Experiences with Faculty: Seniors

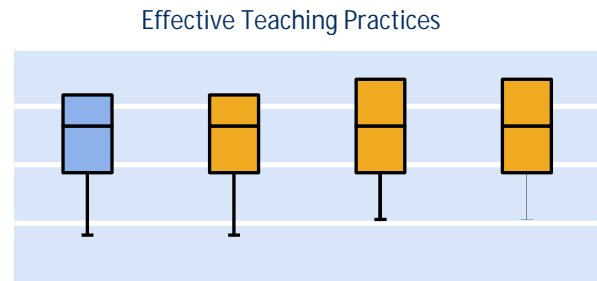
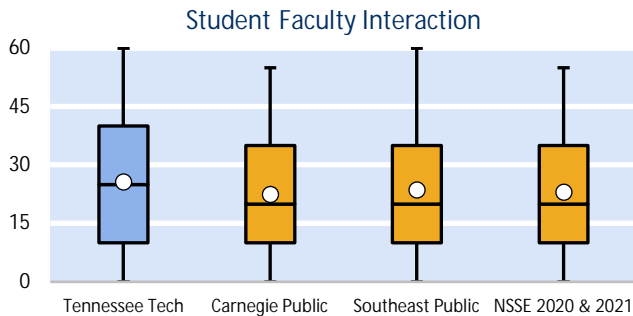
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course material and provide feedback in student-centered ways. Two Engagement Indicators investigate this theme: *Student-Faculty Interaction* and *Effective Teaching Practices*. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	Tennessee Tech Mean	Your seniors compared with					
		Carnegie Public		Southeast Public		NSSE 2020 & 2021	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Student Faculty Interaction	25.6	22.4 ***	.20	23.5 **	.13	23.0 ***	.16
Effective Teaching Practices	38.1	38.3	.02	38.9	.06	39.2	.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



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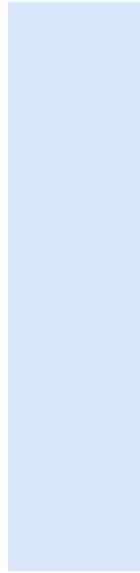
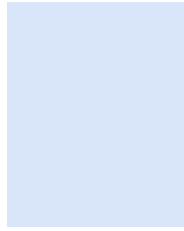
Performance on Indicator Items

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.

Student Faculty Interaction	Tennessee Tech	Percentage point difference ^a between your seniors and		
		Carnegie Public	Southeast Public	NSSE 2020 & 2021
<i>Percentage of students who responded that they "Very often" or "Often"...</i>	%			
3a. Talked about career plans with a faculty member	48	+9	+7	+7
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	31	+6	+4	+5
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	35	+6	+4	+5
3d. Discussed your academic performance with a faculty member	37	+6	+4	+5
<i>Effective Teaching Practices</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much instructors have...</i>				
5a. Clearly explained course goals and requirements	75	-2	-3	-4
5b. Taught course sessions in an organized way	70	-2	-4	-5
5c. Used examples or illustrations to explain difficult points	76	+2	+1	+0
5d. Provided feedback on a draft or work in progress	60	+1	-1	-2
5e. Provided prompt and detailed feedback on tests or completed assignments	65	+4	+3	+2

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

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



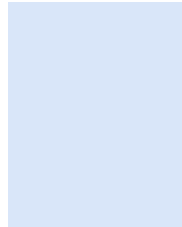
Campus Environment: Seniors

Mean Comparisons

Engagement Indicator

Quality of Interactions

Supportive Environment



42.0 ** .14

42.5 *

32.9 ***

*

Score Distributions

Performance on Indicator Items

The table below displays how your students responded to each EI item, and the difference, in percentage points, between your

Quality of Interactions

Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...

Item	%
13a. Students	63
13b. Academic advisors	56
13c. Faculty	59
13d. Student services staff (career services, student activities, housing, etc.)	48
13e. Other administrative staff and offices (registrar, financial aid, etc.)	50

Supportive Environment

Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...

Item	%	Diff 1	Diff 2	Diff 3
14b. Providing support to help students succeed academically	66			
14c. Using learning support services (tutoring services, writing center, etc.)	54	9	11	10
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	45	7	11	9
14e. Providing opportunities to be involved socially	60			
14f. Providing support for your overall well being (recreation, health care, counseling, etc.)	60			
14g. Helping you manage your non academic responsibilities (work, family, etc.)	29		4	3
14h. Attending campus activities and events (performing arts, athletic events, etc.)	50	0	8	1
14i. Attending events that address important social, economic, or political issues	34	5	8	7

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Comparisons with High Performing Institutions

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 2020 and 2021 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2020 and 2021 NSSE institutions.

First Year Students

	Tennessee Tech <i>Mean</i>	Your first year students compared with			
		NSSE Top 50%		NSSE Top 10%	
		<i>Mean</i>	<i>Effect size</i>	<i>Mean</i>	<i>Effect size</i>
Higher Order Learning	35.7	***	.27	41.9 ***	.48
Reflective and Integrative Learning	32.0	***	.38	39.1 ***	.61
Learning Strategies	37.8	**	.14	43.0 ***	.37
Quantitative Reasoning	28.4	29.7	.08	***	.26
Collaborative Learning	26.6	33.9 ***	.53	37.0 ***	.76
Discussions with Diverse Others	34.9	40.6 ***	.38	43.8 ***	.62
Student Faculty Interaction		***	.22	27.8 ***	.52
Effective Teaching Practices		***	.34	43.2 ***	.55
Quality of Interactions		**	.17	47.7 ***	.37
Supportive Environment	32.2	***	.34	39.9 ***	.60

Seniors

	Tennessee Tech <i>Mean</i>	Your seniors compared with			
		NSSE Top 50%		NSSE Top 10%	
		<i>Mean</i>	<i>Effect size</i>	<i>Mean</i>	<i>Effect size</i>
Higher Order Learning	37.9	41.6 ***	.27	43.9 ***	.46
<i>Academic Challenge</i> Reflective and Integrative Learning	35.2	39.7 ***	.36	42.5 ***	.61
Learning Strategies	38.1	40.6 ***	.17	43.5 ***	.38
Quantitative Reasoning	32.1	31.6	.03	34.8 ***	.17
<i>Learning with Peers</i> Collaborative Learning	34.5	35.0	.04	38.8 ***	.32
Discussions with Diverse Others	38.3	41.2 ***	.19	44.2 ***	.39
<i>Experiences with Faculty</i> Student Faculty Interaction	25.6	28.6 ***	.19	33.6 ***	.50
Effective Teaching Practices	38.1	41.5 ***	.25	44.6 ***	.48
<i>Campus Environment</i> Quality of Interactions	43.7	45.2 *	.12	48.2 ***	.38
Supportive Environment	30.1	34.1 ***	.28	37.2 ***	.49

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

a. Precision-weighted means were used to determine the top 50% and top 10% institutions for each Engagement Indicator from all NSSE 2020 and 2021 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

	<i>Mean</i>	<i>SD^b</i>	<i>SE^c</i>	<i>5th</i>	<i>25th</i>	<i>50th</i>	<i>75th</i>	<i>95th</i>	<i>Deg. of freedom^e</i>	<i>Mean diff.</i>	<i>Sig.^f</i>	<i>Effect size^g</i>
Academic Challenge												
Higher Order Learning												
Tennessee Tech (N = 398)	35.7	13.8	.69	15	25	35	45	60				
Carnegie Public	36.9	13.5	.09	15	30	40	45	60	24,201	-1.1	.092	-.085
Southeast Public	37.4	13.9	.07	15	30	40	45	60	37,592	-1.7	.015	-.122
NSSE 2020 & 2021	37.8	13.5	.03	15	30	40	45	60	165,445	-2.1	.002	-.155
Top 50%	39.2	13.2	.04	20	30	40	50	60	91,521	-3.5	.000	-.267
Top 10%	41.9	12.9	.12	20	35	40	55	60	11,469	-6.2	.000	-.478
Reflective & Integrative Learning												
Tennessee Tech (N = 420)	32.0	12.0	.59	11	23	31	40	54				
Carnegie Public	34.3	12.2	.08	14	26	34	43	57	26,549	-2.3	.000	-.187
Southeast Public	34.3	12.5	.06	14	26	34	43	57	41,632	-2.3	.000	-.188
NSSE 2020 & 2021	34.9	12.2	.03	17	26	34	43	57	180,686	-2.9	.000	-.238
Top 50%	36.5	12.0	.04	17	29	37	46	57	88,879	-4.5	.000	-.377
Top 10%	39.1	11.8	.12	20	31	40	49	60	10,495	-7.2	.000	-.607
Learning Strategies												
Tennessee Tech (N = 377)	37.8	13.7	.70	20	27	40	47	60				
Carnegie Public	37.4	13.9	.09	13	27	40	47	60	22,697	.4	.588	.028
Southeast Public	38.3	14.0	.08	20	27	40	47	60	34,682	-.5	.457	-.039
NSSE 2020 & 2021	38.2	14.0	.04	13	27	40	47	60	154,457	-.4	.573	-.029
Top 50%	39.7	14.0	.05	20	27	40	53	60	81,198	-2.0	.006	-.142
Top 10%	43.0	14.3	.12	20	33	40	60	60	398	-5.2	.000	-.365
Quantitative Reasoning												
Tennessee Tech (N = 378)	28.4	15.7	.81	0	20	27	40	60				
Carnegie Public	27.7	15.2	.10	0	20	27	40	60	23,046	.7	.360	.047
Southeast Public	28.7	15.6	.08	0	20	27	40	60	35,360	-.2	.790	-.014
NSSE 2020 & 2021	28.4	15.4	.04	0	20	27	40	60	157,002	.1	.949	.003
Top 50%	29.7	15.3	.05	7	20	27	40	60	99,384	-1.3	.107	-.083
Top 10%	32.5	15.5	.14	7	20	33	40	60	13,376	-4.0	.000	-.259
Learning with Peers												
Collaborative Learning												
Tennessee Tech (N = 461)	26.6	14.5	.67	5	15	25	35	50				
Carnegie Public	29.0	14.8	.09	5	20	30	40	55	29,040	-2.5	.000	-.166
Southeast Public	30.2	14.8	.07	5	20	30	40	60	46,512	-3.7	.000	-.248
NSSE 2020 & 2021	29.0	15.2	.03	5	20	30	40	55	196,502	-2.4	.001	-.158
Top 50%	33.9	13.9	.04	10	25	35	45	60	129,621	-7.3	.000	-.527
Top 10%	37.0	13.6	.09	15	25	40	45	60	25,959	-10.4	.000	-.765
Discussions with Diverse Others												
Tennessee Tech (N = 377)	34.9	16.1	.83	5	20	35	45	60				
Carnegie Public	37.2	16.1	.11	10	25	40	50	60	22,881	-2.3	.005	-.146
Southeast Public	39.2	16.1	.09	10	30	40	55	60	35,027	-4.3	.000	-.269

NSSE 2021 Engagement Indicators

Detailed Statistics^a

Tennessee Technological University

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 = 408)	19.9	15.0	.74	0	10	20	30	50				
Carnegie Public	19.7	14.3	.09	0	10	20	30	45	25,229	.2	.813	.012
Southeast Public	20.2	14.8	.08	0	10	20	30	50	39,323	-.3	.668	-.021
NSSE 2020 & 2021	20.0	14.5	.04	0	10	20	30	50	172,062	-.1	.884	-.007
Top 50%	23.2	14.7	.06	0	10	20	30	50	62,627	-3.3	.000	-.221
Top 10%	27.8	15.2	.18	5	15	25	40	60	7,317	-7.8	.000	-.517
Effective Teaching Practices												
Tennessee Tech (N = 392)	35.9	14.4	.72	12	28	36	44	60				
Carnegie Public	36.7	13.6	.09	16	28	36	48	60	24,109	-.9	.218	-.063
Southeast Public	37.2	13.8	.07	16	28	36	48	60	37,281	-1.3	.064	-.094
NSSE 2020 & 2021	38.0	13.6	.03	16	28	40	48	60	164,574	-2.2	.002	-.160
Top 50%	40.4	13.5	.05	20	32	40	52	60	65,256	-4.5	.000	-.337
Top 10%	43.2	13.4	.14	20	36	44	56	60	9,326	-7.3	.000	-.545
Campus Environment												
Quality of Interactions												
Tennessee Tech (N = 358)	43.1	12.0	.64	20	36	44	52	60				
Carnegie Public	41.7	12.4	.09	18	34	43	50	60	20,818	1.4	.039	.110
Southeast Public	42.2	12.4	.07	18	35	44	50	60	32,031	.9	.173	.072

NSSE 2021 Engagement Indicators

Tennessee Technological University

Detailed Statistics: Seniors

	Mean			5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
	Mean	SD ^b	SE ^c									
Academic Challenge												
Higher Order Learning												
Tennessee Tech (N = 536)	37.9	15.3	.66	10	30	40	50	60				
Carnegie Public	39.3	14.0	.08	15	30	40	50	60	549	-1.4	.038	-.098
Southeast Public	39.7	14.1	.06	15	30	40	50	60	544	-1.8	.007	-.128
NSSE 2020 & 2021	39.9	13.8	.03	20	30	40	50	60	537	-2.1	.002	-.150
Top 50%	41.6	13.6	.04	20	35	40	55	60	540	-3.7	.000	-.273
Top 10%	43.9	13.0	.13	20	35	40	55	60	574	-6.0	.000	-.458
Reflective & Integrative Learning												
Tennessee Tech (N = 566)	35.2	13.2	.56	14	26	34	46	57				
Carnegie Public	37.1	12.9	.07	17	29	37	46	60	37,374	-1.8	.001	-.141
Southeast Public	37.4	13.0	.05	17	29	37	46	60	57,118	-2.1	.000	-.162
NSSE 2020 & 2021	37.8	12.8	.03	17	29	37	46	60	250,023	-2.6	.000	-.201
Top 50%	39.7	12.4	.04	20	31	40	49	60	571	-4.5	.000	-.364
Top 10%	42.5	11.7	.13	23	34	43	51	60	630	-7.2	.000	-.613
Learning Strategies												
Tennessee Tech (N = 495)	38.1	15.2	.68	13	27	40	53	60				
Carnegie Public	38.0	14.9	.08	13	27	40	47	60	32,877	.1	.891	.006
Southeast Public	39.2	14.8	.07	13	27	40	53	60	49,809	-1.2	.085	-.078
NSSE 2020 & 2021	38.6	14.7	.03	13	27	40	53	60	221,625	-.5	.411	-.037
Top 50%	40.6	14.6	.04	20	33	40	53	60	113,012	-2.5	.000	-.168
Top 10%	43.5	14.2	.12	20	33	40	60	60	15,142	-5.4	.000	-.377
Quantitative Reasoning												
Tennessee Tech (N = 508)	32.1	16.4	.73	7	20	33	40	60				
Carnegie Public	29.7	16.3	.09	0	20	27	40	60	33,378	2.4	.001	.147
Southeast Public	30.8	16.4	.07	0	20	33	40	60	50,465	1.3	.070	.081
NSSE 2020 & 2021	30.4	16.4	.03	0	20	27	40	60	224,525	1.7	.018	.105
Top 50%	31.6	16.3	.04	0	20	33	40	60	137,425	.5	.505	.030
Top 10%	34.8	15.8	.14	7	20	33	47	60	14,053	-2.7	.000	-.173
Learning with Peers												
Collaborative Learning												
Tennessee Tech (N = 597)	34.5	15.3	.62	10	25	35	45	60				
Carnegie Public	31.1	15.6	.08	5	20	30	40	60	39,550	3.4	.000	.217
Southeast Public	32.3	15.4	.06	5	20	30	45	60	60,952	2.1	.001	.138
NSSE 2020 & 2021	30.6	15.9	.03	5	20	30	40	60	263,416	3.9	.000	.247
Top 50%	35.0	14.1	.04	10	25	35	45	60	600	-.5	.382	-.039
Top 10%	38.8	13.4	.11	15	30	40	50	60	632	-4.3	.000	-.323
Discussions with Diverse Others												
Tennessee Tech (N = 500)	38.3	15.3	.69	15	25	40	50	60				
Carnegie Public	38.4	16.5	.09	10	25	40	55	60	516	.0	.975	-.001
Southeast Public	40.7	16.2	.07	15	30	40	60	60	510	-2.4	.001	-.148
NSSE 2020 & 2021	39.0	16.3	.03	10	25	40	55	60	501	-.7	.321	-.042
Top 50%	41.2	15.6	.04	15	30	40	60	60	144,190	-2.9	.000	-.186
Top 10%	44.2	15.0	.10	20	35	45	60	60	21,812	-5.8	.000	-.389

