

Michigan 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
3.	Learning Strategies
	Quantitative Reasoning
Language with Dance	Collaborative Learning
Learning with Peers	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 2017 and 2018 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, 2015). 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., & Gonyea, R. M. (2015, May). Contextualizing student engagement effect sizes: An empirical analysis. Paper presented at the Association for Institutional Research Annual Forum. Denver. CO.



Overview Michigan Technological University

Engagement Indicators: Overview

Engagement Indicator

Higher-Order Learning

Supportive Environment

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

AITU

 ∇

Your first-year students

compared with

Carnegie Class

 ∇

Your first-year students

compared with NSSE 2017 & 2018

abla

Use the following key:

First-Year Students

Theme

Environment

- **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.
- **Vour students' average** was significantly lower (p < .05) with an effect size at least .3 in magnitude.

Academic Challenge	Reflective & Integrative Learning Learning Strategies Quantitative Reasoning	▼ ▽ 	▼ ★ △	▼ ▼ △
Learning with	Collaborative Learning	•	Δ	
Peers	Discussions with Diverse Others	•	∇	∇
Experiences	Student-Faculty Interaction	•	V	V
with Faculty	Effective Teaching Practices	•	∇	•
Campus	Quality of Interactions	∇	Δ	
Environment	Supportive Environment	∇	∇	∇
niors		Your seniors compared with	Your seniors compared with	Your seniors compared with
Theme	Engagement Indicator	AITU	Carnegie Class	NSSE 2017 & 2018
	Higher-Order Learning	∇	∇	•
Academic	Reflective & Integrative Learning		•	•
Challenge	Learning Strategies		•	•
	Quantitative Reasoning		Δ	Δ
Learning with	Collaborative Learning	•	Δ	Δ
Peers	Discussions with Diverse Others	∇	∇	∇
Experiences	Student-Faculty Interaction			
with Faculty	Effective Teaching Practices	•	∇	∇
Campus	Quality of Interactions	∇		



Academic Challenge

Michigan Technological University

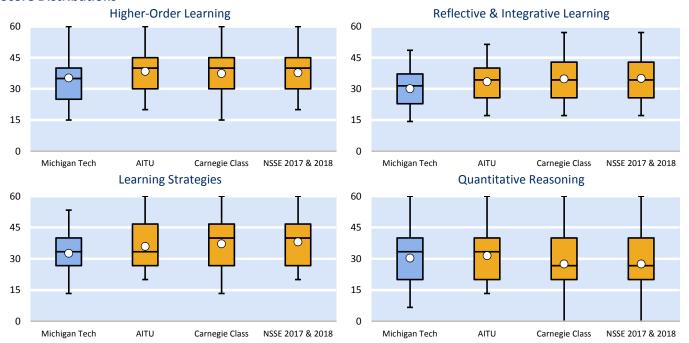
Academic Challenge: First-year students

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		Your first-year students compared with					
	Michigan Tech	AITU Effect	Carnegie Class Effect	NSSE 2017 & 2018 Effect			
Engagement Indicator	Mean	Mean size	Mean size	Mean size			
Higher-Order Learning	35.3	38.5 ***26	37.5 **16	37.8 ***19			
Reflective & Integrative Learning	30.1	33.5 ***31	34.8 ***39	35.1 ***41			
Learning Strategies	32.6	36.0 **26	37.2 ***33	38.1 ***39			
Quantitative Reasoning	30.3	31.509	27.5 *** .19	27.5 *** .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.



Academic Challenge

Michigan 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	difference ^a between you	r FY students and
Higher-Order Learning	Michigan Tech	AITU	Carnegie Class	NSSE 2017 & 2018
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized		Alle	curregic class	2010
4b. Applying facts, theories, or methods to practical problems or new situations	% 79	-7	+8	+8
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	65	-10	-3	-4
4d. Evaluating a point of view, decision, or information source	56	+4	-11	-13
4e. Forming a new idea or understanding from various pieces of information	55	-14	-11	-13
Reflective & Integrative Learning				
Percentage of students who responded that they "Very often" or "Often"				
2a. Combined ideas from different courses when completing assignments	42	-19	-10	-10
2b. Connected your learning to societal problems or issues	30	-9	-20	-21
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	27	-4	-23	-24
2d. Examined the strengths and weaknesses of your own views on a topic or issue	54	-2	-9	-10
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	61	-4	-9	-9
2f. Learned something that changed the way you understand an issue or concept	57	-10	-8	-9
2g. Connected ideas from your courses to your prior experiences and knowledge	71	-10	-5	-6
Learning Strategies				
Percentage of students who responded that they "Very often" or "Often"				
9a. Identified key information from reading assignments	64	-3	-9	-11
9b. Reviewed your notes after class	51	-12	-12	-14
9c. Summarized what you learned in class or from course materials	52	-5	-8	-11
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	-11	+11	+11
Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	44	+5	+6	+6
6c. Evaluated what others have concluded from numerical information	45	+1	+7	+7

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

Michigan Technological University

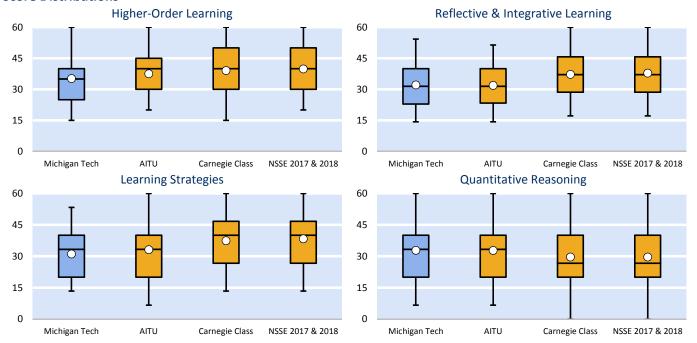
Academic Challenge: Seniors

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		Your seniors compared with					
	Michigan Tech	А	ITU Effect	Carneg	ie Class Effect	NSSE 201	7 & 2018 Effect
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Higher-Order Learning	35.2	37.5 *	18	39.0 ***	28	39.8 ***	34
Reflective & Integrative Learning	32.1	31.9	.02	37.2 ***	41	37.9 ***	46
Learning Strategies	31.1	33.1	15	37.4 ***	43	38.3 ***	50
Quantitative Reasoning	32.8	32.7	.00	29.6 ***	.20	29.6 ***	.20

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

Michigan 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	Michigan Tech	AITU	Carnegie Class	NSSE 2017 & 2018	
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	% 75	-10	-2	-2	
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	71	-2	-3	-4	
4d. Evaluating a point of view, decision, or information source	45	-5	-21	-25	
4e. Forming a new idea or understanding from various pieces of information	55	-8	-13	-16	
Reflective & Integrative Learning					
Percentage of students who responded that they "Very often" or "Often"					
2a. Combined ideas from different courses when completing assignments	63	-3	-6	-5	
2b. Connected your learning to societal problems or issues	37	+3	-21	-23	
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	23	+3	-25	-29	
2d. Examined the strengths and weaknesses of your own views on a topic or issue	54	+3	-10	-12	
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	58	+2	-13	-14	
2f. Learned something that changed the way you understand an issue or concept	60	-2	-9	-11	
2g. Connected ideas from your courses to your prior experiences and knowledge	76	-1	-6	-7	
Learning Strategies					
Percentage of students who responded that they "Very often" or "Often"					
9a. Identified key information from reading assignments	61	-5	-15	-18	
9b. Reviewed your notes after class	51	+0	-8	-10	
9c. Summarized what you learned in class or from course materials	45	-4	-16	-19	
Quantitative Reasoning					
Percentage of students who responded that they "Very often" or "Often"					
Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	74	-0	+18	+19	
Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	43	+3	+0	-1	
6c. Evaluated what others have concluded from numerical information	50	+4	+6	+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.



Learning with Peers

Michigan Technological University

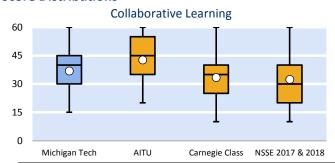
Learning with Peers: First-year students

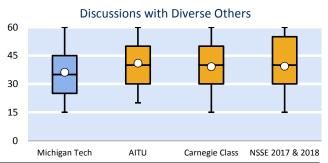
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons			Your first-year students co	ompared with	1	
	Michigan Tech	AITU Effect	Carnegie C	Class Effect	NSSE 201	7 & 2018 <i>Effect</i>
Engagement Indicator	Mean	Mean size	•	size	Mean	size
Collaborative Learning	36.8	42.6 ***45	33.4 ***	.25	32.3 ***	.32
Discussions with Diverse Others	36.2	40.9 ***34	39.1 ***	.19	39.4 ***	21

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 students an		
				NSSE 2017 &
Collaborative Learning	Michigan Tech	AITU	Carnegie Class	2018
Percentage of students who responded that they "Very often" or "Often"	%			
1e. Asked another student to help you understand course material	69	-8	+13	+17
1f. Explained course material to one or more students	68	-6	+8	+10
1g. Prepared for exams by discussing or working through course material with other students	61	-9	+8	+11
1h. Worked with other students on course projects or assignments	72	-14	+16	+17
Discussions with Diverse Others				
Percentage of students who responded that they "Very often" or "Often" had discussions with				
8a. People from a race or ethnicity other than your own	45	-23	-23	-25
8b. People from an economic background other than your own	69	-6	-1	-2
8c. People with religious beliefs other than your own	65	-10	-0	-1
8d. People with political views other than your own	66	-1	+0	+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.



Learning with Peers

Michigan Technological University

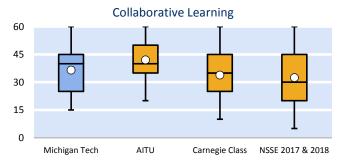
Learning with Peers: Seniors

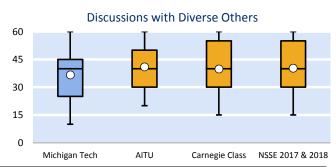
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons			Your seniors compared with	
	Michigan Tech	AITU Effect	Carnegie Class Effect	NSSE 2017 & 2018 Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Collaborative Learning	36.6	42.1 ***42	33.9 *** .19	32.5 *** .27
Discussions with Diverse Others	36.6	40.9 ***30	39.8 ***20	40.3 ***23

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 seniors and			
				NSSE 2017 &	
Collaborative Learning	Michigan Tech	AITU	Carnegie Class	2018	
Percentage of students who responded that they "Very often" or "Often"	%				
1e. Asked another student to help you understand course material	58	-11	+11	+15	
1f. Explained course material to one or more students	74	-5	+11	+15	
1g. Prepared for exams by discussing or working through course material with other students	52	-14	+3	+5	
1h. Worked with other students on course projects or assignments	75	-13	+9	+11	
Discussions with Diverse Others					
Percentage of students who responded that they "Very often" or "Often" had discussions with					
8a. People from a race or ethnicity other than your own	47	-21	-23	-25	
8b. People from an economic background other than your own	64	-11	-8	-8	
8c. People with religious beliefs other than your own	65	-10	-1	-3	
8d. People with political views other than your own	69	-2	+3	+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.



Experiences with Faculty Michigan Technological University

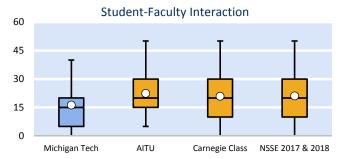
Experiences with Faculty: First-year students

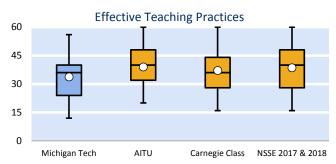
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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		You	r first-year students compared v	vith
Engagement Indicator	Michigan Tech	AITU	Carnegie Class	NSSE 2017 & 2018
	Mean	Effect Mean size	Effect Mean size	Effect Mean size
Student-Faculty Interaction	16.3	22.4 ***48	20.9 ***32	21.1 ***33
Effective Teaching Practices	33.7	38.9 ***44	37.1 ***26	38.5 ***36

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 students ar			
Michigan Tech	AITU	Carnegie Class	NSSE 2017 & 2018	
%				
24	-4	-13	-13	
15	-4	-6	-6	
14	-20	-10	-11	
18	-11	-10	-12	
		•		
69	-10	-6	-8	
69	-11	-4	-6	
71	-8	-1	-3	
45	-17	-15	-19	
45	-21	-10	-15	
	24 15 14 18 69 69 71 45	Michigan Tech	Michigan Tech AITU Carnegie Class	

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



Experiences with Faculty Michigan Technological University

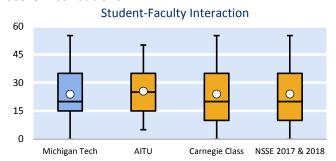
Experiences with Faculty: Seniors

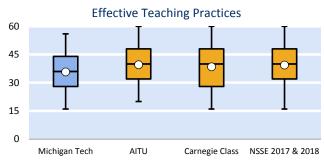
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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				Your seniors com	pared with		
	Michigan Tech	А	ITU	Carnegi		NSSE 201	7 & 2018
			Effect		Effect		Effect
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Student-Faculty Interaction	23.9	25.5	11	23.9	.00	23.9	.00
Effective Teaching Practices	35.7	39.6 ***	·31	38.4 ***	20	39.4 ***	27

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 seniors a						
Student-Faculty Interaction	Michigan Tech	AITU	Carnegie Class	NSSE 2017 & 2018				
Percentage of students who responded that they "Very often" or "Often"	%							
3a. Talked about career plans with a faculty member	40	+0	-3	-3				
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	33	+4	+5	+6				
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	33	-9	+1	+1				
3d. Discussed your academic performance with a faculty member	24	-9	-9	-10				
Effective Teaching Practices			•					
Percentage responding "Very much" or "Quite a bit" about how much instructors have								
5a. Clearly explained course goals and requirements	69	-11	-10	-11				
5b. Taught course sessions in an organized way	71	-10	-5	-7				
5c. Used examples or illustrations to explain difficult points	78	-4	+2	+1				
5d. Provided feedback on a draft or work in progress	44	-13	-12	-16				
5e. Provided prompt and detailed feedback on tests or completed assignments	58	-8	-3	-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

Michigan Technological University

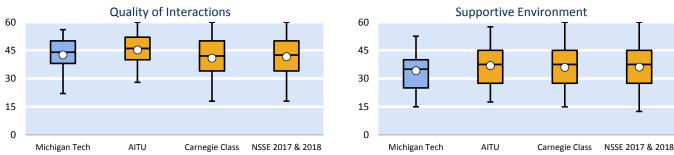
Campus Environment: First-year students

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			Your	first-year student	s compared v	vith	
	Michigan Tech	Al	ΓU	Carneg	ie Class	NSSE 201	17 & 2018
			Effect		Effect		Effect
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Quality of Interactions	42.6	45.2 **	27	40.9 **	.14	41.7	.07
Supportive Environment	34.1	36.9 **	23	36.0 *	14	36.1 **	14

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 students an						
				NSSE	2017 &		
Michigan Tech	AITU	Carne	gie Class	2	2018		
%							
50	-	13 +2	1	+0			
51	Į.	-3 +4	1	+2	1		
42	-	15	-2		-6		
49		-7 +7		+5			
52	Ę	-3 +13		+9			
80		-8 +5		+4	1		
85	I.	-4 +8		+8			
46	-	10	-14		-16		
69	Į.	-4	-3		-2		
70	Ŕ	-3	-0	+0			
31	Į.	-3	-10		-11		
64	+5		-1	+0			
35	ı ı	-5	-15		-16		
	% 50 51 42 49 52 80 85 46 69 70 31 64 35	Michigan Tech % 50 51 42 49 52 80 85 46 69 70 31 64 +5 35	Michigan Tech % 50 1-13 -3 +4 42 1-15 49 1-7 52 1-3 +13 80 80 8-8 85 -4 46 1-10 69 -4 70 -3 31 -3 64 +5 35 -5	Michigan Tech AITU Carnegie Class	Michigan Tech AITU Carnegie Class		

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 Michigan Technological University

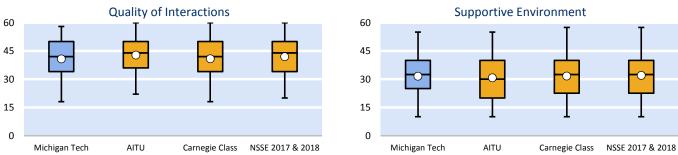
Campus Environment: Seniors

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				Your seniors co	mpared with		
	Michigan Tech	А	ITU Effect	Carne	egie Class Effect	NSSE 20	17 & 2018 Effect
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Quality of Interactions	40.8	42.8 *	18	40.9	01	42.0	10
Supportive Environment	31.6	30.7	.07	31.7	01	32.0	03

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 po	int difference ^a between y	our seniors and
				NSSE 2017 &
Quality of Interactions	Michigan Tech	AITU	Carnegie Class	2018
$Percentage\ rating\ their\ interactions\ a\ 6\ or\ 7\ (on\ a\ scale\ from\ 1="Poor"\ to\ 7="Excellent")\ with$	%			
13a. Students	55	-5	+0	-1
13b. Academic advisors	46	-6	<u> </u>	-5
13c. Faculty	45	-10	-7	-10
13d. Student services staff (career services, student activities, housing, etc.)	39	-3	+1	-2
13e. Other administrative staff and offices (registrar, financial aid, etc.)	44	-4	+6	+3
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	-2	+8	+6
14c. Using learning support services (tutoring services, writing center, etc.)	77	+3	+14	+12
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	42	+2	-10	-13
14e. Providing opportunities to be involved socially	66	+5	+1	+2
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	62	+3	+1	+2
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	25	+1	-4	-6
14h. Attending campus activities and events (performing arts, athletic events, etc.)	60	+12	+6	+8
14i. Attending events that address important social, economic, or political issues	30	+3	-11	-12

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.

This page intentionally left blank.



First-Year Students

NSSE 2018 Engagement Indicators

Comparisons with High-Performing Institutions Michigan Technological University

Your first-year students compared with

Comparisons with Top 50% and Top 10% Institutions

While NSSE's policy is not to rank institutions (see nsse.indiana.edu/html/position_policies.cfm), 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 2017 and 2018 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2017 and 2018 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.

						mes compared me		
		Michigan Tech	NSSE T	op 50%		NSSE T	op 10%	
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
	Higher-Order Learning	35.3	38.9 ***	28		40.5 ***	39	
Academic	Reflective and Integrative Learning	30.1	36.5 ***	53		38.1 ***	66	
Challenge	Learning Strategies	32.6	39.5 ***	50		41.6 ***	64	
	Quantitative Reasoning	30.3	28.7 *	.11	✓	30.4	.00	✓
Learning	Collaborative Learning	36.8	35.1 *	.13	✓	37.2	03	✓
with Peers	Discussions with Diverse Others	36.2	41.4 ***	35		43.4 ***	49	
Experiences	Student-Faculty Interaction	16.3	24.3 ***	54		27.2 ***	70	
with Faculty	Effective Teaching Practices	33.7	40.3 ***	50		42.0 ***	60	
Campus	Quality of Interactions	42.6	43.9 *	11		45.9 ***	27	
Environment	Supportive Environment	34.1	37.9 ***	29		39.7 ***	42	
Seniors				Your se	eniors co	ompared with		
		Michigan Tech	NSSE T	op 50%		NSSE T	op 10%	
Theme	Engagement Indicator	Mean	Mean	Effect size	✓	Mean	Effect size	✓
	Higher-Order Learning	35.2	41.3 ***	45		42.5 ***	53	
Academic	Reflective and Integrative Learning	32.1	39.6 ***	61		41.1 ***	74	
Challenge	Learning Strategies	31.1	40.2 ***	63		42.3 ***	79	
	Quantitative Reasoning	32.8	30.7 *	.13	✓	32.7	.01	✓
Learning	Collaborative Learning	36.6	35.7	.07	✓	38.1 *	11	
with Peers	Discussions with Diverse Others	36.6	41.9 ***	34		43.8 ***	46	
Experiences	Student-Faculty Interaction	23.9	29.2 ***	34		33.3 ***	59	
with Faculty	Effective Teaching Practices	35.7	41.1 ***	40		43.1 ***	54	

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

40.8

31.6

44.4 ***

34.3 ***

-.30

-.19

Quality of Interactions

Environment Supportive Environment

46.5 ***

36.4 ***

-.47

-.34

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 2017 and 2018 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.

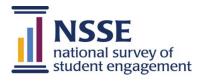
b. Check marks are assigned to comparisons that are either significant and positive, or non-significant with an effect size > -.10.



Detailed Statistics^a Michigan Technological University

Detailed Statistics: First-Year Students

	Mea	ın statist	ics		Perce	ntile ^d sco	ores		Comparison results				
		SD ^b	C5146						Deg. of	Mean	s: f	Effect	
Academic Challenge	Mean	SD	SEM ^c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g	
Higher-Order Learning													
Michigan Tech (N = 287)	25.2	10.1	71	1.5	25	25	40	<i>c</i> 0					
AITU AITU	35.3	12.1	.71	15	25	35 40	40	60 60	694	2.1	001	256	
	38.5	12.4	.62 .07	20	30		45		684 293	-3.1	.001	256	
Carnegie Class	37.5	13.1		15	30	40	45	60		-2.2	.003	164	
NSSE 2017 & 2018	37.8	13.2	.03	20	30	40	45	60	287	-2.5	.000	191	
Top 50%	38.9	13.1	.04	20	30	40	50	60	133,106	-3.6	.000	278	
Top 10%	40.5	13.3	.08	20	30	40	50	60	31,848	-5.2	.000	390	
Reflective & Integrative Learnin	g												
Michigan Tech (N = 306)	30.1	10.6	.61	14	23	31	37	49					
AITU	33.5	11.1	.54	17	26	34	40	51	725	-3.4	.000	311	
Carnegie Class	34.8	11.9	.06	17	26	34	43	57	312	-4.7	.000	395	
NSSE 2017 & 2018	35.1	11.9	.02	17	26	34	43	57	306	-4.9	.000	414	
Top 50%	36.5	11.8	.03	17	29	37	43	57	307	-6.3	.000	535	
Top 10%	38.1	12.0	.07	20	29	37	46	60	314	-7.9	.000	661	
Learning Strategies													
Michigan Tech (N = 273)	32.6	12.7	.77	13	27	33	40	53					
AITU	36.0	12.8	.66	20	27	33	47	60	647	-3.3	.001	261	
Carnegie Class	37.2	13.7	.08	13	27	40	47	60	278	-4.5	.000	330	
NSSE 2017 & 2018	38.1	13.7	.03	20	27	40	47	60	273	-5.4	.000	394	
Top 50%	39.5	13.7	.04	20	27	40	53	60	107,883	-6.9	.000	502	
Top 10%	41.6	14.1	.09	20	33	40	53	60	280	-9.0	.000	639	
Quantitative Reasoning													
Michigan Tech (N = 278)	30.3	13.5	.81	7	20	33	40	60					
AITU	31.5	13.5	.69	13	20	33	40	60	658	-1.2	.278	086	
Carnegie Class	27.5	15.3	.09	0	20	27	40	60	283	2.8	.001	.185	
NSSE 2017 & 2018				0	20	27	40		283				
	27.5	15.3	.03					60		2.9	.001	.186	
Top 50%	28.7	15.2	.04	0	20	27	40	60	278	1.7	.041	.110	
Top 10%	30.4	15.3	.08	7	20	27	40	60	282	1	.948	003	
Learning with Peers													
Collaborative Learning													
Michigan Tech $(N = 321)$	36.8	12.4	.69	15	30	40	45	60					
AITU	42.6	13.1	.63	20	35	45	55	60	711	-5.8	.000	451	
Carnegie Class	33.4	14.0	.07	10	25	35	40	60	327	3.5	.000	.249	
NSSE 2017 & 2018	32.3	14.4	.03	10	20	30	40	60	321	4.6	.000	.316	
Top 50%	35.1	13.6	.04	15	25	35	45	60	321	1.7	.013	.126	
Top 10%	37.2	13.6	.08	15	25	40	45	60	327	4	.568	029	
Discussions with Diverse Others	<u> </u>												
Michigan Tech $(N = 275)$	36.2	13.8	.83	15	25	35	45	60					
AITU	40.9	14.0	.72	20	30	40	50	60	653	-4.8	.000	343	
Carnegie Class	39.1	15.4	.09	15	30	40	50	60	281	-2.9	.001	191	
NSSE 2017 & 2018	39.4	15.5	.03	15	30	40	55	60	275	-3.2	.000	207	
Top 50%	41.4	15.0	.04	15	30	40	55	60	276	-5.2	.000	349	
Top 10%	43.4	14.8	.09	20	35	45	60	60	280	-7.3	.000	491	
								~~	200				



Detailed Statistics^a Michigan Technological University

Detailed Statistics: First-Year Students

	Mean statistics				Perce	ntile ^d sco	ores		Comparison results				
-	Wica	ii statist	.103		1 6166	Titlic Sec	7103		Deg. of	Mean	resures	Effect	
	Mean	SD b	SEM ^c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g	
Experiences with Faculty													
Student-Faculty Interaction													
Michigan Tech $(N = 302)$	16.3	12.2	.70	0	5	15	20	40					
AITU	22.4	13.2	.65	5	15	20	30	50	708	-6.1	.000	480	
Carnegie Class	20.9	14.4	.08	0	10	20	30	50	309	-4.6	.000	321	
NSSE 2017 & 2018	21.1	14.6	.03	0	10	20	30	50	302	-4.8	.000	331	
Top 50%	24.3	14.8	.05	5	15	20	35	55	304	-8.0	.000	538	
Top 10%	27.2	15.8	.13	5	15	25	40	60	323	-10.9	.000	697	
Effective Teaching Practices													
Michigan Tech (N = 287)	33.7	12.4	.73	12	24	36	40	56					
AITU	38.9	11.6	.58	20	32	40	48	60	677	-5.2	.000	438	
Carnegie Class	37.1	12.9	.07	16	28	36	44	60	32,227	-3.4	.000	264	
NSSE 2017 & 2018	38.5	13.1	.03	16	28	40	48	60	224,515	-4.8	.000	363	
Top 50%	40.3	13.1	.04	20	32	40	52	60	98,492	-6.6	.000	500	
Top 10%	42.0	13.7	.09	20	32	40	52	60	294	-8.3	.000	604	
Campus Environment													
Quality of Interactions													
Michigan Tech (N = 266)	42.6	10.1	.62	22	38	44	50	56					
AITU	45.2	9.9	.52	28	40	46	52	60	629	-2.6	.001	265	
Carnegie Class	40.9	12.2	.07	18	34	42	50	60	272	1.7	.006	.142	
NSSE 2017 & 2018	41.7	12.5	.03	18	34	43	50	60	266	.9	.143	.073	
Top 50%	43.9	11.6	.04	22	38	46	52	60	267	-1.3	.037	113	
Top 10%	45.9	12.1	.09	22	40	48	56	60	277	-3.3	.000	272	
Supportive Environment													
Michigan Tech $(N = 270)$	34.1	11.7	.71	15	25	35	40	53					
AITU	36.9	12.1	.63	18	28	38	45	58	634	-2.7	.004	229	
Carnegie Class	36.0	13.3	.08	15	28	38	45	60	276	-1.8	.012	137	
NSSE 2017 & 2018	36.1	13.6	.03	13	28	38	45	60	270	-1.9	.007	143	
Top 50%	37.9	13.2	.04	15	30	40	48	60	271	-3.8	.000	288	
Top 10%	39.7	13.1	.08	18	30	40	50	60	276	-5.5	.000	422	

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

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 \pm 1.96 x SEM) 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 Michigan Technological University

Detailed Statistics: Seniors

_	Mea	n statist	ics		Perce	ntile ^d scc	res		Comparison results				
		SD ^b	SEM ^c			=0.1		0=./	Deg. of freedom ^e	Mean	Sig. ^f	Effect size ^g	
Academic Challenge	Mean	SD	SEM	5th	25th	50th	75th	95th	Jreeaom *	diff.	Sig.	size	
Higher-Order Learning													
Michigan Tech (N = 305)	35.2	13.1	.75	15	25	35	40	60					
AITU	37.5	12.7	.68	20	30	40	45	60	651	-2.3	.022	180	
Carnegie Class	39.0	13.7	.08	15	30	40	50	60	33,393	-2.5 -3.9	.000	281	
NSSE 2017 & 2018	39.8	13.7	.03	20	30	40	50	60	234,163	-3.9 -4.6	.000	340	
Top 50%	41.3	13.7	.03	20	35	40	55	60	109,990	-4.0 -6.1	.000	453	
Top 10%	42.5	13.7	.04	20	35	40	55	60	33,251	-0.1 -7.3	.000	433	
Deflective & Internative Learning													
Reflective & Integrative Learnin Michigan Tech (N = 318)	g 32.1	11.7	.66	14	23	31	40	54					
AITU	31.9	11.7	.58	14	23	31	40	51	686	.2	.791	.020	
	37.2	12.5	.07	17	29	37	46	60	34,997	.2 -5.1	.000	408	
Carnegie Class NSSE 2017 & 2018				17		37	46 46						
	37.9	12.4	.03		29			60	243,964	-5.7	.000	460	
Top 50%	39.6	12.2	.04	20	31	40	49	60	107,329	-7.4	.000	609	
Top 10%	41.1	12.2	.08	20	33	40	51	60	23,077	-9.0	.000	737	
Learning Strategies													
Michigan Tech $(N = 286)$	31.1	13.0	.77	13	20	33	40	53					
AITU	33.1	14.2	.77	7	20	33	40	60	621	-2.1	.062	151	
Carnegie Class	37.4	14.6	.08	13	27	40	47	60	292	-6.3	.000	435	
NSSE 2017 & 2018	38.3	14.5	.03	13	27	40	47	60	286	-7.2	.000	500	
Top 50%	40.2	14.4	.04	20	33	40	53	60	116,317	-9.1	.000	634	
Top 10%	42.3	14.2	.08	20	33	40	53	60	291	-11.3	.000	793	
Quantitative Reasoning													
Michigan Tech (N = 291)	32.8	14.5	.85	7	20	33	40	60					
AITU	32.7	14.6	.79	7	20	33	40	60	630	.1	.963	.004	
Carnegie Class	29.6	16.0	.09	0	20	27	40	60	296	3.2	.000	.198	
NSSE 2017 & 2018	29.6	16.1	.03	0	20	27	40	60	291	3.2	.000	.197	
Top 50%	30.7	16.0	.04	0	20	33	40	60	291	2.1	.014	.132	
Top 10%	32.7	15.7	.09	7	20	33	40	60	296	.1	.884	.008	
Learning with Peers													
Collaborative Learning													
Michigan Tech (N = 332)	36.6	14.0	.77	15	25	40	45	60					
AITU	42.1	12.1	.62	20	35	40	50	60	657	-5.5	.000	423	
Carnegie Class	33.9	14.6	.08	10	25	35	45	60	36,233	2.7	.001	.186	
NSSE 2017 & 2018	32.5	15.0	.03	5	20	30	45	60	332	4.1	.000	.274	
Top 50%	35.7	13.9	.04	15	25	35	45	60	140,689	.9	.232	.066	
Top 10%	38.1	13.5	.09	15	30	40	50	60	23,749	-1.5	.046	110	
Discussions with Diverse Others													
Michigan Tech (N = 289)	36.6	15.1	.89	10	25	40	45	60					
AITU	40.9	13.8	.75	20	30	40	50	60	625	-4.3	.000	299	
Carnegie Class	39.8	15.8	.09	15	30	40	55	60	31,149	-3.2	.001	204	
NSSE 2017 & 2018	40.3	15.8	.03	15	30	40	55	60	218,113	-3.7	.000	232	
Top 50%	41.9	15.6	.03	15	30	40	60	60	152,422	-5.7 -5.3	.000	340	
Top 10%	43.8	15.5	.08	20	35	45	60	60	36,899	-3.3 -7.2	.000	464	
10р 1070	±3.0	13.3	.00	20	33	73	00	50	50,077	1.2	.000	.+0+	



Detailed Statistics^a Michigan Technological University

Detailed Statistics: Seniors

	Mea	n statist	ics		Perce	ntile ^d sco	ores		Comparison results				
									Deg. of	Mean		Effect	
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	freedom ^e	diff.	Sig. ^f	size ^g	
Experiences with Faculty													
Student-Faculty Interaction													
Michigan Tech $(N = 312)$	23.9	14.9	.84	0	15	20	35	55					
AITU	25.5	14.3	.76	5	15	25	35	50	667	-1.6	.160	109	
Carnegie Class	23.9	15.7	.09	0	10	20	35	55	34,028	.0	.959	003	
NSSE 2017 & 2018	23.9	15.9	.03	0	10	20	35	55	237,915	1	.948	004	
Top 50%	29.2	15.8	.06	5	20	30	40	60	60,908	-5.3	.000	338	
Top 10%	33.3	16.1	.18	10	20	35	45	60	341	-9.4	.000	585	
Effective Teaching Practices													
Michigan Tech (N = 299)	35.7	12.8	.74	16	28	36	44	56					
AITU	39.6	12.5	.67	20	32	40	48	60	645	-3.9	.000	306	
Carnegie Class	38.4	13.6	.07	16	28	40	48	60	33,441	-2.7	.001	199	
NSSE 2017 & 2018	39.4	13.7	.03	16	32	40	48	60	234,907	-3.7	.000	268	
Top 50%	41.1	13.6	.04	16	32	40	52	60	300	-5.4	.000	400	
Top 10%	43.1	13.7	.10	20	36	44	56	60	308	-7.4	.000	541	
Campus Environment													
Quality of Interactions													
Michigan Tech (N = 283)	40.8	11.3	.67	18	34	42	50	58					
AITU	42.8	10.9	.59	22	36	44	50	60	616	-2.0	.024	182	
Carnegie Class	40.9	12.2	.07	18	34	42	50	60	289	1	.914	006	
NSSE 2017 & 2018	42.0	12.3	.03	20	34	44	50	60	283	-1.2	.081	095	
Top 50%	44.4	11.9	.04	22	38	46	54	60	78,841	-3.6	.000	302	
Top 10%	46.5	12.3	.09	22	40	50	58	60	292	-5.7	.000	466	
Supportive Environment													
Michigan Tech (N = 281)	31.6	12.1	.72	10	25	33	40	55					
AITU	30.7	13.4	.73	10	20	30	40	55	611	.9	.380	.070	
Carnegie Class	31.7	13.8	.08	10	23	33	40	58	287	1	.920	005	
NSSE 2017 & 2018	32.0	14.1	.03	10	23	33	40	58	281	4	.600	027	
Top 50%	34.3	13.7	.04	13	25	35	43	60	282	-2.6	.000	192	
Top 10%	36.4	13.7	.10	13	28	38	45	60	290	-4.7	.000	344	

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

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 \pm 1.96 x SEM) 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.

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