

Western Michigan University

Prepared 2022-08-08 IPEDS: 172699



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. The specific items within each EI are listed below, starting on page 5.

Theme	Engagement Indicator
	Higher-Order Learning
Academic Challenge	Reflective & Integrative Learning
	Learning Strategies
	Quantitative Reasoning
Lograing with Books	Collaborative Learning
Learning with Peers	Discussions with Diverse Others
Experiences with Faculty	Student-Faculty Interaction
Experiences with rucuity	Effective Teaching Practices
Campus Environment	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 2021 and 2022 participating institutions.

Detailed Statistics (pp. 16-19)

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

Interpreting Comparisons

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

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. 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.



Overview Western Michigan University

Engagement Indicators: Overview

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

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

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

First-Year Stu	dents	Your first-year students compared with	Your first-year students compared with	Your first-year students compared with	
Theme	Engagement Indicator	Carnegie Peers	Carnegie Class	NSSE 2021 & 2022	
	Higher-Order Learning		∇	∇	
Academic	Reflective & Integrative Learning				
Challenge	Learning Strategies		∇	∇	
	Quantitative Reasoning			∇	
Learning with	Collaborative Learning	Δ			
Peers	Discussions with Diverse Others		Δ		
Experiences	Student-Faculty Interaction	Δ			
with Faculty	Effective Teaching Practices			∇	
Campus	Quality of Interactions	Δ			
Environment	Supportive Environment	Δ			
Seniors		Your seniors compared with	Your seniors compared with	Your seniors compared with	
Theme	Engagement Indicator	Carnegie Peers	Carnegie Class	NSSE 2021 & 2022	
	Higher-Order Learning	∇	∇	∇	
Academic	Reflective & Integrative Learning				
Challenge	Learning Strategies	∇	∇	∇	
	Quantitative Reasoning				
Learning with	Collaborative Learning	Δ	Δ	Δ	
Peers	Discussions with Diverse Others				
Experiences	Student-Faculty Interaction				
with Faculty	Effective Teaching Practices	∇	∇	∇	
Campus	Quality of Interactions	∇	∇	•	
Environment	Supportive Environment	∇	∇	∇	



Academic Challenge Western Michigan University

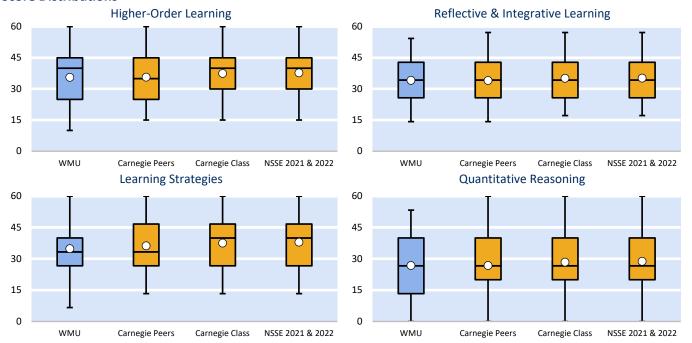
Academic Challenge: First-year students

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						
	WMU	Carnegie Peers Effect		Carnegie Class Effect		NSSE 202	1 & 2022 Effect	
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size	
Higher-Order Learning	35.6	35.7	01	37.5 *	14	37.8 *	16	
Reflective & Integrative Learning	34.2	34.1	.01	35.2	08	35.3	09	
Learning Strategies	34.8	36.2	10	37.5 **	19	37.9 ***	22	
Quantitative Reasoning	26.7	26.7	.00	28.4	11	28.7 *	13	

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

Score Distributions



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



Academic Challenge Western Michigan 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 your FY students and				
Higher-Order Learning	WMU	Carnegie Peers	Carnegie Class	NSSE 2021 & 2022		
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	70	+6	+3	+1		
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	64	+1	-3	-4		
4d. Evaluating a point of view, decision, or information source	60	-6	-9	-9		
4e. Forming a new idea or understanding from various pieces of information	69	+3	-0	-1		
Reflective & Integrative Learning						
Percentage of students who responded that they "Very often" or "Often"						
2a. Combined ideas from different courses when completing assignments	54	+7	+4	+3		
2b. Connected your learning to societal problems or issues	49	+0	-3	-3		
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	52	-0	-1	-1		
2d. Examined the strengths and weaknesses of your own views on a topic or issue	55	-8	-9	-9		
Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	67	-0	-4	-3		
2f. Learned something that changed the way you understand an issue or concept	61	+1	-4	-4		
2g. Connected ideas from your courses to your prior experiences and knowledge	74	-1	-3	-3		
Learning Strategies						
Percentage of students who responded that they "Very often" or "Often"						
9a. Identified key information from reading assignments	68	+0	-3	-4		
9b. Reviewed your notes after class	62	-0	-3	-3		
9c. Summarized what you learned in class or from course materials	59	+2	-4	-5		
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.)	54	+5	+2	+1		
Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	40	+2	-2	-3		
6c. Evaluated what others have concluded from numerical information	40	+5	+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.



Academic Challenge Western Michigan University

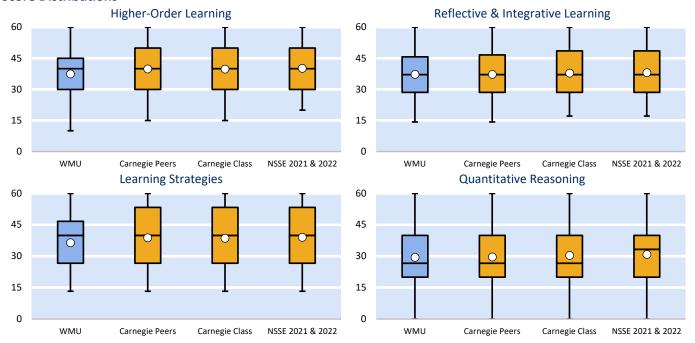
Academic Challenge: Seniors

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.

lean Comparisons		Your seniors compared with					
	WMU Carnegie Peers Effect		Carnegie Class Effect	NSSE 2021 & 2022 Effect			
Engagement Indicator	Mean	Mean size	Mean size	Mean size			
Higher-Order Learning	37.5	39.9 **17	39.8 **17	40.2 ***20			
Reflective & Integrative Learning	37.2	37.3 .00	37.905	38.107			
Learning Strategies	36.4	38.8 **16	38.6 **15	39.0 **17			
Quantitative Reasoning	29.5	29.601	30.405	30.908			

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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Academic Challenge Western Michigan 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.

comparison group. Dark red bars indicate now inden lower your institution	sn's percent	Percentage point difference ^a between your seniors a			
Higher-Order Learning	WMU	Carnegie Peers	Carnegie Class	NSSE 2021 & 2022	
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized		Carriegie i eers	Carriegie Class		
4b. Applying facts, theories, or methods to practical problems or new situations	% 74	-2	-2	-2	
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	71	-3	-3	-3	
4d. Evaluating a point of view, decision, or information source	67	-3	-3	-5	
4e. Forming a new idea or understanding from various pieces of information	67	-5	-5	-6	
Reflective & Integrative Learning					
Percentage of students who responded that they "Very often" or "Often"					
2a. Combined ideas from different courses when completing assignments	69	+3	+2	+3	
2b. Connected your learning to societal problems or issues	58	+0	-2	-3	
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course 2c. discussions or assignments	52	+1	-1	-2	
2d. Examined the strengths and weaknesses of your own views on a topic or issue	65	+0	-1	-1	
Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	76	+4	+3	+3	
2f. Learned something that changed the way you understand an issue or concept	69	-1	-2	-2	
2g. Connected ideas from your courses to your prior experiences and knowledge	78	-4	-4	-5	
Learning Strategies					
Percentage of students who responded that they "Very often" or "Often"					
9a. Identified key information from reading assignments	68	-7	-7	-8	
9b. Reviewed your notes after class	62	-3	-2	-2	
9c. Summarized what you learned in class or from course materials	59	-8	-6	-7	
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.)	53	-1	-2	-3	
Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	48	+4	+2	+0	
6c. Evaluated what others have concluded from numerical information	44	-0	-2	-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.



Learning with Peers Western Michigan University

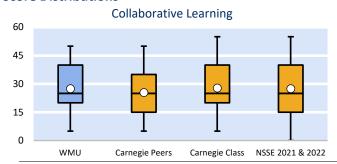
Learning with Peers: First-year students

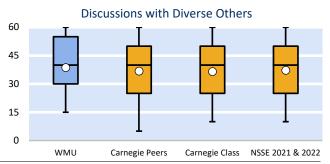
Collaborating with others in mastering difficult material and interacting with peers from different backgrounds prepares students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons			Your	first-year studer	ts compared v	vith		
	WMU	Carneg	Carnegie Peers		Carnegie Class		21 & 2022	
			Effect		Effect		Effect	
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size	
Collaborative Learning	27.4	25.4 *	.14	27.8	02	27.5	.00	
Discussions with Diverse Others	38.6	36.8	.11	36.5 *	.13	37.1	.09	

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

Score Distributions





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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.

		Percentage point o	difference ^a between you	ır FY students and
				NSSE 2021 &
Collaborative Learning	WMU	Carnegie Peers	Carnegie Class	2022
Percentage of students who responded that they "Very often" or "Often"	%			
1b. Asked another student to help you understand course material	41	+3	-2	-1
1c. Explained course material to one or more students	49	+9	+5	+5
1d. Prepared for exams by discussing or working through course material with other students	36	+5	-1	-1
1e. Worked with other students on course projects or assignments	49	+13	+5	+4
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	71	+6	+6	+5
8b. People from an economic background other than your own	70	+6	+5	+4
8c. People with religious beliefs other than your own	67	+7	+8	+5
8d. People with political views other than your own	61	+0	+3	+3

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Learning with Peers Western Michigan University

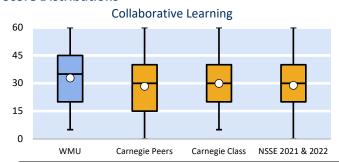
Learning with Peers: Seniors

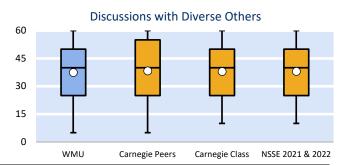
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Mean Comparisons			Your seniors compared with	
	WMU	Carnegie Peers Effect	Carnegie Class Effect	NSSE 2021 & 2022 Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Collaborative Learning	32.9	28.4 *** .28	30.0 *** .19	29.0 *** .24
Discussions with Diverse Others	37.5	38.405	38.003	38.104

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 poin	nt difference ^a between y	our seniors and
				NSSE 2021 &
Collaborative Learning	WMU	Carnegie Peers	Carnegie Class	2022
Percentage of students who responded that they "Very often" or "Often"	%			
1b. Asked another student to help you understand course material	45	+7	+5	+7
1c. Explained course material to one or more students	57	+9	+7	+8
${\bf 1d.} \ \ Prepared \ for exams \ by \ discussing \ or \ working \ through \ course \ material \ with \ other \ students$	44	+8	+5	+6
1e. Worked with other students on course projects or assignments	64	+11	+5	+8
Discussions with Diverse Others				
Percentage of students who responded that they "Very often" or "Often" had discussions with				
8a. People of a race or ethnicity other than your own	65	-2	-2	-3
8b. People from an economic background other than your own	70	+2	+2	+2
8c. People with religious beliefs other than your own	64	+0	+2	+2
8d. People with political views other than your own	60	-5	-1	-1

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Experiences with Faculty Western Michigan University

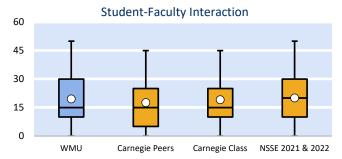
Experiences with Faculty: First-year students

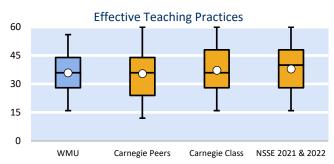
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course 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			Your	first-year stude	nts compared v	with	
	WMU	Carnegie Peers Effect		Carnegie Class Effect		NSSE 20	21 & 2022 <i>Effect</i>
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size
Student-Faculty Interaction	19.5	17.5 *	.14	19.1	.03	20.0	03
Effective Teaching Practices	35.9	35.4	.03	37.2	10	37.9 *	15

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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		Percentag	ge point difference ^a	between yo	our FY studer	nts and
						2021 &
Student-Faculty Interaction	WMU	Carnegie I	Peers Carneg	ie Class	20)22
Percentage of students who responded that they "Very often" or "Often"	%					
3a. Talked about career plans with a faculty member	32	1	-1	-1		-3
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	19	+4	+1)	+0	
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	26	+8	+3	•	+2	1
3d. Discussed your academic performance with a faculty member	26	+4		-0		-2
Effective Teaching Practices						
Percentage responding "Very much" or "Quite a bit" about how much instructors have						
5a. Clearly explained course goals and requirements	73	+3	ĺ	-1		-2
5b. Taught course sessions in an organized way	69	+3		-1		-3
5c. Used examples or illustrations to explain difficult points	71	+6	+1)	I	-0
5d. Provided feedback on a draft or work in progress	57	į į	-2	-4		-6
5e. Provided prompt and detailed feedback on tests or completed assignments	55	+5		-1		-3

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Experiences with Faculty Western Michigan University

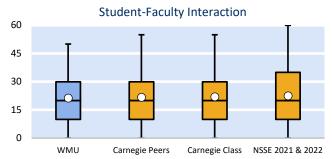
Experiences with Faculty: Seniors

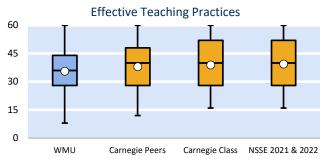
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Mean Comparisons				Your seniors com	pared with			
	WMU	Carneg	ie Peers Effect	Carnegi	e Class Effect	NSSE 2021 & 2022 Effect		
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size	
Student-Faculty Interaction	21.2	21.7	03	21.9	04	22.5	07	
Effective Teaching Practices	35.6	37.9 **	16	38.9 ***	23	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).

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		Percentage poin	t difference ^a between y	our seniors and
Student-Faculty Interaction	WMU	Carnegie Peers	Carnegie Class	NSSE 2021 & 2022
Percentage of students who responded that they "Very often" or "Often"	%			
3a. Talked about career plans with a faculty member	35	-3	-3	-4
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	21	-3	-4	-4
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	27	-0	-1	-3
3d. Discussed your academic performance with a faculty member	28	-1	-1	-3
Effective Teaching Practices			•	-
Percentage responding "Very much" or "Quite a bit" about how much instructors have				
5a. Clearly explained course goals and requirements	73	-2	-4	-5
5b. Taught course sessions in an organized way	69	-2	-4	-5
5c. Used examples or illustrations to explain difficult points	66	-6	-8	-9
5d. Provided feedback on a draft or work in progress	58	-1	-3	-4
5e. Provided prompt and detailed feedback on tests or completed assignments	56	-5	-6	-8

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 Western Michigan University

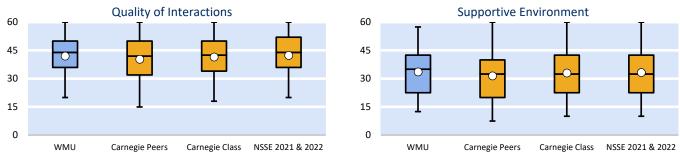
Campus Environment: First-year students

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 students compared with										
	WMU	Carneg	ie Peers	Carne	gie Class	NSSE 20	21 & 2022					
			Effect		Effect		Effect					
Engagement Indicator	Mean	Mean	size	Mean	size	Mean	size					
Quality of Interactions	42.0	40.4 *	.13	41.5	.04	42.4	03					
Supportive Environment	33.6	31.5 *	.15	33.1	.04	33.3	.02					

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

Score Distributions



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

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 of	lifference ^a between you	ır FY students and
				NSSE 2021 &
Quality of Interactions	WMU	Carnegie Peers	Carnegie Class	2022
Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with	%			
13a. Students	57	+15	+9	+8
13b. Academic advisors	52	-0	+1	-2
13c. Faculty	50	+6	+3	-1
13d. Student services staff (career services, student activities, housing, etc.)	44	+1	-1	-3
13e. Other administrative staff and offices (registrar, financial aid, etc.)	38	(-1	-6	-8
Supportive Environment		·	•	•
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized				
14b. Providing support to help students succeed academically	71	+4	+2	+1
14c. Using learning support services (tutoring services, writing center, etc.)	68	-0	-2	-3
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	61	+8	+5	+4
14e. Providing opportunities to be involved socially	66	+8	+3	+2
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	62	+5	+0	+0
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	35	+3	-2	-3
14h. Attending campus activities and events (performing arts, athletic events, etc.)	64	+11	+10	+8
14i. Attending events that address important social, economic, or political issues	47	+9	+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.



Campus Environment Western Michigan University

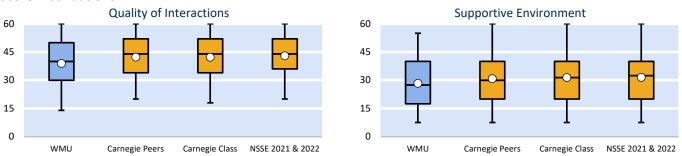
Campus Environment: Seniors

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 compared with	
	WMU	Carnegie Peers	Carnegie Class	NSSE 2021 & 2022
		Effect	Effect	Effect
Engagement Indicator	Mean	Mean size	Mean size	Mean size
Quality of Interactions	39.0	42.4 ***27	42.3 ***26	43.1 ***32
Supportive Environment	28.5	30.9 **16	31.5 ***21	31.6 ***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 poin	t difference ^a between y	our seniors and
Quality of Interactions	WMU	Carnegie Peers	Carnegie Class	NSSE 2021 & 2022
Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with	%			
13a. Students	57	+2	t -0	-1
13b. Academic advisors	47	-7	-4	-8
13c. Faculty	40	-14	-15	-17
13d. Student services staff (career services, student activities, housing, etc.)	38	-7	-6	-8
13e. Other administrative staff and offices (registrar, financial aid, etc.)	35	-9	-9	-11
Supportive Environment			•	-
Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized				
14b. Providing support to help students succeed academically	61	-3	-5	-6
14c. Using learning support services (tutoring services, writing center, etc.)	56	-7	-8	-8
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	47	-4	-6	-7
14e. Providing opportunities to be involved socially	56	-4	-5	-5
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	49	-8	-10	-9
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	20	-8	-11	-12
14h. Attending campus activities and events (performing arts, athletic events, etc.)	50	-1	-0	-1
14i. Attending events that address important social, economic, or political issues	36	-1	-5	-5

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 Western Michigan University

Comparisons with Top 50% and Top 10% Institutions

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

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

While the average scores for most institutions are below the mean for the top 50% or top 10%, your institution may show areas of distinction where your average student was as engaged as (or even more engaged than) the typical student at high-performing institutions. A check mark (\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.

irst-Year	Students			Your first-year students compared with						
		WMU	NSSE	Гор 50%	NSSE T	op 10%				
Theme	Engagement Indicator	Mean	Mean	Effect size ✓	Mean	Effect size	\checkmark			
	Higher-Order Learning	35.6	39.2 ***	27	42.1 ***	49				
Academic	Reflective and Integrative Learning	34.2	36.9 ***	22	39.2 ***	42				
Challenge	Learning Strategies	34.8	39.6 ***	34	42.9 ***	57				
	Quantitative Reasoning	26.7	30.2 ***	22	33.3 ***	42				
Learning	Collaborative Learning	27.4	31.8 ***	32	35.4 ***	59				
with Peers	Discussions with Diverse Others	38.6	39.8	08 ✓	42.6 ***	28				
Experiences	Student-Faculty Interaction	19.5	24.3 ***	32	27.8 ***	55				
with Faculty	Effective Teaching Practices	35.9	40.3 ***	32	43.3 ***	55				
Campus	Quality of Interactions	42.0	45.1 ***	26	48.2 ***	50				
Environment	Supportive Environment	33.6	35.9 **	17	39.1 ***	41				

Seniors				Your seniors co	mpared with	
		WMU	NSSE T	Гор 50%	NSSE T	op 10%
Theme	Engagement Indicator	Mean	Mean	Effect size ✓	Mean	Effect size ✓
	Higher-Order Learning	37.5	41.9 ***	32	44.2 ***	51
Academic	Reflective and Integrative Learning	37.2	40.3 ***	24	42.7 ***	46
Challenge	Learning Strategies	36.4	41.1 ***	32	43.4 ***	49
	Quantitative Reasoning	29.5	32.4 ***	18	35.3 ***	37
Learning	Collaborative Learning	32.9	34.0	08 ✓	37.9 ***	36
with Peers	Discussions with Diverse Others	37.5	40.4 ***	18	43.2 ***	38
Experiences	Student-Faculty Interaction	21.2	28.8 ***	46	33.2 ***	75
with Faculty	Effective Teaching Practices	35.6	41.9 ***	45	44.5 ***	65
Campus	Quality of Interactions	39.0	45.6 ***	54	48.0 ***	72
Environmen	^t Supportive Environment	28.5	34.3 ***	39	37.4 ***	62

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 < .01 (2-tailed).

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

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



Detailed Statistics^a Western Michigan University

Detailed Statistics: First-Year Students

_	Mea	n statisti	ics		Perce	ntile ^d sco	res			mparison	results	Effect
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge	Wicum			307	2501	30111	7501	33111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		9-	
Higher-Order Learning												
WMU (N = 257)	35.6	13.5	.84	10	25	40	45	60				
Carnegie Peers	35.7	14.0	.23	15	25	35	45	60	3,865	1	.917	007
Carnegie Class	37.5	13.4	.09	15	30	40	45	60	22,316	-1.9	.028	138
NSSE 2021 & 2022	37.8	13.5	.04	15	30	40	45	60	106,272	-2.1	.012	158
Top 50%	39.2	13.3	.06	20	30	40	50	60	54,829	-3.6	.000	272
Top 10%	42.1	13.0	.17	20	35	40	55	60	6,260	-6.4	.000	492
Reflective & Integrative Learning	g											
WMU $(N = 283)$	34.2	11.9	.71	14	26	34	43	54				
Carnegie Peers	34.1	12.4	.20	14	26	34	43	57	4,261	.1	.870	.010
Carnegie Class	35.2	12.2	.08	17	26	34	43	57	24,234	-1.0	.160	084
NSSE 2021 & 2022	35.3	12.3	.04	17	26	34	43	57	115,492	-1.1	.141	088
Top 50%	36.9	12.1	.05	17	29	37	46	60	54,984	-2.7	.000	225
Top 10%	39.2	11.8	.14	20	31	40	49	60	7,726	-5.0	.000	425
Learning Strategies												
WMU $(N = 231)$	34.8	14.2	.94	7	27	33	40	60				
Carnegie Peers	36.2	14.3	.25	13	27	33	47	60	3,525	-1.4	.153	097
Carnegie Class	37.5	13.9	.10	13	27	40	47	60	20,874	-2.7	.004	192
NSSE 2021 & 2022	37.9	14.0	.04	13	27	40	47	60	98,783	-3.1	.001	223
Top 50%	39.6	14.1	.06	20	27	40	53	60	49,980	-4.8	.000	339
Top 10%	42.9	14.3	.15	20	33	40	60	60	9,307	-8.1	.000	567
Quantitative Reasoning												
WMU $(N = 238)$	26.7	15.5	1.01	0	13	27	40	53				
Carnegie Peers	26.7	15.7	.27	0	20	27	40	60	3,574	.0	.990	.001
Carnegie Class	28.4	15.4	.11	0	20	27	40	60	21,119	-1.6	.104	106
NSSE 2021 & 2022	28.7	15.5	.05	0	20	27	40	60	100,192	-2.0	.047	129
Top 50%	30.2	15.3	.06	7	20	27	40	60	57,730	-3.4	.001	223
Top 10%	33.3	15.5	.18	7	20	33	40	60	7,667	-6.5	.000	421
Learning with Peers												
Collaborative Learning												
WMU $(N = 321)$	27.4	13.7	.77	5	20	25	40	50				
Carnegie Peers	25.4	14.4	.22	5	15	25	35	50	4,811	2.0	.016	.140
Carnegie Class	27.8	14.5	.09	5	20	25	40	55	26,153	3	.676	024
NSSE 2021 & 2022	27.5	15.0	.04	0	15	25	40	55	124,908	.0	.979	001
Top 50%	31.8	13.9	.06	10	20	30	40	60	50,894	-4.4	.000	318
Top 10%	35.4	13.5	.14	15	25	35	45	60	9,565	-8.0	.000	591
Discussions with Diverse Others												
WMU $(N = 234)$	38.6	15.6	1.02	15	30	40	55	60				
Carnegie Peers	36.8	16.5	.29	5	25	40	50	60	3,537	1.9	.095	.113
Carnegie Class	36.5	16.0	.11	10	25	40	50	60	20,989	2.1	.047	.131
NSSE 2021 & 2022	37.1	16.1	.05	10	25	40	50	60	99,412	1.5	.162	.091
Top 50%	39.8	15.1	.07	15	30	40	55	60	45,866	-1.2	.218	081
Top 10%	42.6	14.2	.18	20	35	40	55	60	6,176	-4.0	.000	278
1			-	-		-		-	-, -,			



Detailed Statistics^a Western Michigan University

Detailed Statistics: First-Year Students

	Mea	n statisti	CS		Perce	ntile ^d sco	ores		Со	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												
WMU $(N = 270)$	19.5	14.6	.89	0	10	15	30	50				
Carnegie Peers	17.5	13.9	.23	0	5	15	25	45	4,022	2.0	.027	.140
Carnegie Class	19.1	14.6	.10	0	10	15	25	45	23,185	.4	.646	.028
NSSE 2021 & 2022	20.0	14.8	.04	0	10	20	30	50	110,358	5	.568	035
Top 50%	24.3	15.1	.09	5	15	20	35	55	28,006	-4.9	.000	321
Top 10%	27.8	15.3	.22	5	15	25	40	60	305	-8.3	.000	545
Effective Teaching Practices												
WMU $(N = 254)$	35.9	12.6	.79	16	28	36	44	56				
Carnegie Peers	35.4	14.1	.24	12	24	36	44	60	299	.4	.610	.030
Carnegie Class	37.2	13.6	.09	16	28	36	48	60	259	-1.4	.091	100
NSSE 2021 & 2022	37.9	13.7	.04	16	28	40	48	60	254	-2.0	.011	148
Top 50%	40.3	13.8	.07	16	32	40	52	60	257	-4.4	.000	321
Top 10%	43.3	13.7	.18	20	36	44	56	60	278	-7.4	.000	545
Campus Environment												
Quality of Interactions												
WMU $(N = 214)$	42.0	11.4	.78	20	36	44	50	60				
Carnegie Peers	40.4	13.1	.24	15	32	42	50	60	256	1.6	.048	.125
Carnegie Class	41.5	12.6	.09	18	34	43	50	60	18,955	.5	.583	.038
NSSE 2021 & 2022	42.4	12.4	.04	20	36	44	52	60	89,810	4	.629	033
Top 50%	45.1	11.9	.07	22	38	48	54	60	30,726	-3.1	.000	261
Top 10%	48.2	12.5	.16	23	42	50	60	60	6,080	-6.2	.000	497
Supportive Environment												
WMU $(N = 228)$	33.6	13.8	.91	13	23	35	43	58				
Carnegie Peers	31.5	14.5	.26	8	20	33	40	60	3,391	2.1	.032	.147
Carnegie Class	33.1	14.1	.10	10	23	33	43	60	20,272	.5	.561	.039
NSSE 2021 & 2022	33.3	14.0	.05	10	23	33	43	60	95,776	.3	.756	.021
Top 50%	35.9	13.6	.07	13	26	38	45	60	34,859	-2.3	.010	172
Top 10%	39.1	13.3	.21	18	30	40	50	60	4,127	-5.5	.000	413

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

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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 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 Western Michigan University

Detailed Statistics: Seniors

_	Mea	n statisti	cs		Percei	ntile ^d scc	ores		Co	mparison	results	
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge	Wicum			501	2501	30111	7501	<i>33th</i>	j.ccao	۵.,,,	o.g.	5,20
Higher-Order Learning												
WMU (N = 353)	37.5	14.4	.77	10	30	40	45	60				
Carnegie Peers	39.9	14.0	.22	15	30	40	50	60	4,336	-2.4	.002	171
Carnegie Class	39.8	14.1	.08	15	30	40	50	60	29,836	-2.3	.002	165
NSSE 2021 & 2022	40.2	14.0	.04	20	30	40	50	60	142,968	-2.7	.002	196
Top 50%	41.9	13.7	.06	20	35	40	55	60	56,975	-4.4	.000	322
Top 10%	44.2	13.1	.18	20	35	45	60	60	5,570	-6.8	.000	513
10p 1070	77.2	13.1	.10	20	33	43	00	00	3,370	-0.0	.000	515
Reflective & Integrative Learning	g											
WMU $(N = 392)$	37.2	13.5	.68	14	29	37	46	60				
Carnegie Peers	37.3	13.3	.20	14	29	37	47	60	4,718	1	.939	004
Carnegie Class	37.9	13.1	.07	17	29	37	49	60	31,714	6	.341	048
NSSE 2021 & 2022	38.1	13.0	.03	17	29	37	49	60	152,265	9	.187	067
Top 50%	40.3	12.5	.06	20	31	40	50	60	51,779	-3.0	.000	241
Top 10%	42.7	11.7	.17	23	34	43	51	60	439	-5.5	.000	463
Learning Strategies												
WMU $(N = 332)$	36.4	14.9	.82	13	27	40	47	60				
Carnegie Peers	38.8	14.8	.24	13	27	40	53	60	4,095	-2.4	.005	162
Carnegie Class	38.6	14.7	.09	13	27	40	53	60	28,177	-2.2	.008	146
NSSE 2021 & 2022	39.0	14.8	.04	13	27	40	53	60	134,821	-2.6	.001	175
Top 50%	41.1	14.6	.06	20	33	40	53	60	62,053	-4.7	.000	319
Top 10%	43.4	14.2	.14	20	33	40	60	60	10,742	-7.0	.000	494
Quantitative Reasoning												
WMU (N = 335)	29.5	16.6	.91	0	20	27	40	60				
Carnegie Peers	29.6	16.7	.27	0	20	27	40	60	4,141	2	.861	010
Carnegie Class	30.4	16.7	.10	0	20	27	40	60	28,509	2 9	.324	054
NSSE 2021 & 2022	30.4	16.6	.04	0	20	33	40	60	136,495	-1.4	.123	084
				7							.001	
Top 50%	32.4	16.5	.06		20	33	40	60	69,241	-3.0		181
Top 10%	35.3	16.0	.18	7	20	33	47	60	8,352	-5.9	.000	368
Learning with Peers												
Collaborative Learning												
WMU $(N = 432)$	32.9	15.9	.77	5	20	35	45	60				
Carnegie Peers	28.4	16.1	.24	0	15	30	40	60	5,076	4.5	.000	.280
Carnegie Class	30.0	15.7	.09	5	20	30	40	60	33,318	2.9	.000	.186
NSSE 2021 & 2022	29.0	16.2	.04	0	20	30	40	60	159,688	3.9	.000	.242
Top 50%	34.0	14.6	.06	10	25	35	45	60	437	-1.1	.144	077
Top 10%	37.9	13.7	.16	15	30	40	50	60	471	-5.0	.000	359
Discussions with Diverse Others												
Discussions with Diverse Others WMU (N = 330)	37.5	17.0	.93	5	25	40	50	60				
Carnegie Peers	38.4	16.8	.27	5	25	40	55	60	4,114	9	.360	053
Carnegie Class	38.0	16.5	.10	10	25	40	50	60	28,279	6	.543	034
NSSE 2021 & 2022	38.1	16.5	.04	10	25	40	50	60	135,280	6	.543	034
Top 50%	40.4	15.9	.04	15	30	40	55	60	62,120	0 -2.9	.001	182
_		15.9	.06	20	35	45	55 60	60		-2.9 -5.7	.000	
Top 10%	43.2	13.1	.19	20	33	43	00	00	357	-3.1	.000	378



Detailed Statistics^a Western Michigan University

Detailed Statistics: Seniors

	Mea	n statisti	cs		Perce	ntile ^d sco	ores		Co	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												
WMU $(N = 371)$	21.2	14.9	.77	0	10	20	30	50				
Carnegie Peers	21.7	16.1	.25	0	10	20	30	55	4,509	4	.624	027
Carnegie Class	21.9	16.2	.09	0	10	20	30	55	381	7	.385	042
NSSE 2021 & 2022	22.5	16.3	.04	0	10	20	35	60	372	-1.2	.117	075
Top 50%	28.8	16.2	.10	5	15	25	40	60	382	-7.5	.000	464
Top 10%	33.2	16.1	.28	10	20	35	45	60	469	-12.0	.000	749
Effective Teaching Practices												
WMU $(N = 348)$	35.6	14.4	.77	8	28	36	44	60				
Carnegie Peers	37.9	14.7	.23	12	28	40	48	60	4,344	-2.4	.004	163
Carnegie Class	38.9	14.4	.08	16	28	40	52	60	29,788	-3.3	.000	231
NSSE 2021 & 2022	39.4	14.5	.04	16	28	40	52	60	142,785	-3.8	.000	265
Top 50%	41.9	14.1	.07	16	32	40	56	60	45,206	-6.4	.000	453
Top 10%	44.5	13.6	.16	20	36	44	56	60	7,534	-8.9	.000	654
Campus Environment												
Quality of Interactions												
WMU $(N = 304)$	39.0	12.8	.74	14	30	40	50	60				
Carnegie Peers	42.4	12.6	.22	20	34	44	52	60	3,640	-3.4	.000	270
Carnegie Class	42.3	12.8	.08	18	34	44	52	60	25,427	-3.3	.000	256
NSSE 2021 & 2022	43.1	12.7	.04	20	36	44	52	60	121,783	-4.1	.000	320
Top 50%	45.6	12.3	.06	22	38	48	56	60	47,979	-6.6	.000	541
Top 10%	48.0	12.5	.11	22	40	50	60	60	14,530	-9.0	.000	719
Supportive Environment												
WMU $(N = 327)$	28.5	14.4	.79	8	18	28	40	55				
Carnegie Peers	30.9	14.8	.24	8	20	30	40	60	3,993	-2.4	.005	164
Carnegie Class	31.5	14.6	.09	8	20	31	40	60	27,539	-3.0	.000	207
NSSE 2021 & 2022	31.6	14.7	.04	8	20	33	40	60	131,605	-3.1	.000	211
Top 50%	34.3	14.7	.07	10	23	35	45	60	44,565	-5.8	.000	393
Top 10%	37.4	14.5	.22	13	28	38	48	60	4,724	-9.0	.000	618

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

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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 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.