



NSSE 2020

Engagement Indicators

James Madison University

About Your Engagement Indicators Report

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

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

Report Sections

Overview (p. 3)

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

Theme Reports (pp. 4-13)

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

Mean Comparisons

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

Score Distributions

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

Performance on Indicator Items

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

Comparisons with High-Performing Institutions (p. 15)

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

Detailed Statistics (pp. 16-19)

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

Interpreting Comparisons

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

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

How Engagement Indicators are Computed

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

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

Engagement Indicators: Overview

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

Use the following key:

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

First-Year Students

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

Seniors

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

Academic Challenge: First-year students

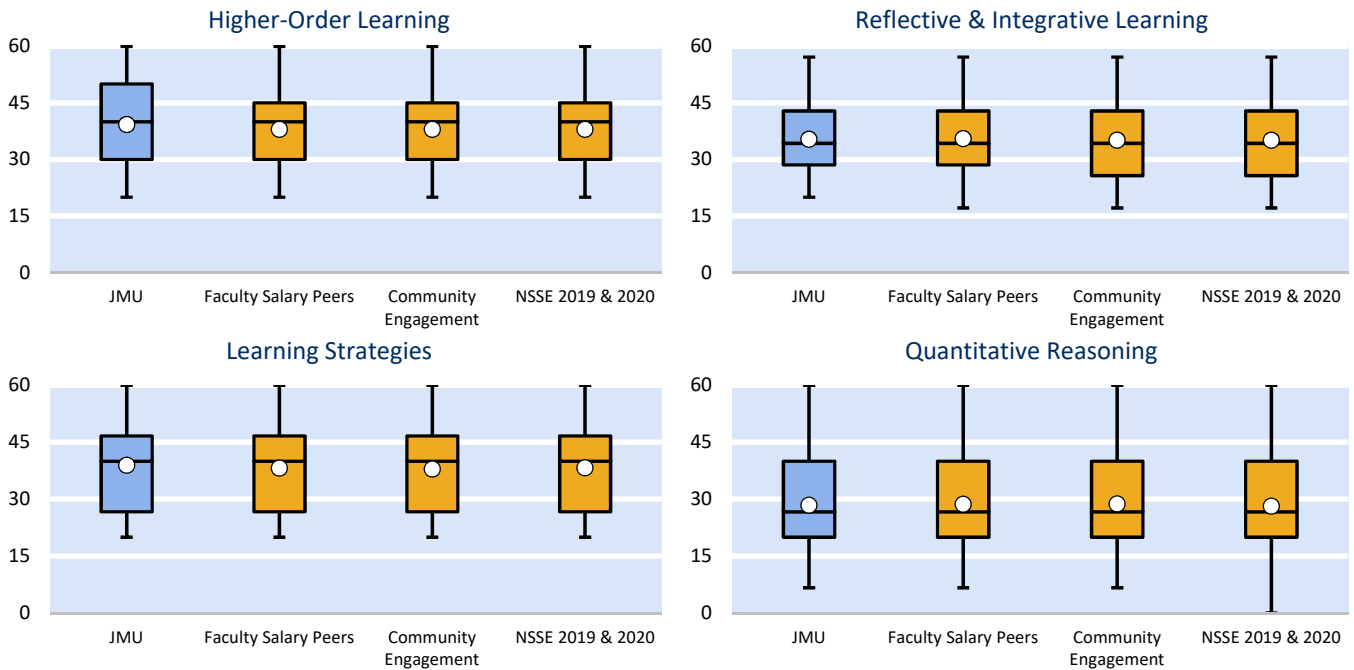
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*,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

Mean Comparisons

Engagement Indicator	JMU Mean	Your first-year students compared with					
		Faculty Salary Peers		Community Engagement		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	39.3	38.0 **	.10	38.0 **	.10	38.0 **	.09
Reflective & Integrative Learning	35.4	35.5	-.01	35.2	.02	35.2	.02
Learning Strategies	39.0	38.2	.06	38.0 *	.08	38.3	.05
Quantitative Reasoning	28.4	28.7	-.02	28.7	-.02	28.2	.01

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

Score Distributions






















































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

Academic Challenge: First-year students (continued)

Performance on Indicator Items

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

	JMU	Percentage point difference ^a between your FY students and		
		Faculty Salary Peers	Community Engagement	NSSE 2019 & 2020
Higher-Order Learning				
<i>Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized...</i>				
	%			
4b. Applying facts, theories, or methods to practical problems or new situations	76	+3 	+5 	+6 
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	75	+4 	+5 	+5 
4d. Evaluating a point of view, decision, or information source	74	+4 	+5 	+5 
4e. Forming a new idea or understanding from various pieces of information	71	+3 	+2 	+2 
Reflective & Integrative Learning				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
2a. Combined ideas from different courses when completing assignments	56	+2 	+3 	+4 
2b. Connected your learning to societal problems or issues	53	-1 	+2 	+2 
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	52	-1 	+1 	+1 
2d. Examined the strengths and weaknesses of your own views on a topic or issue	64	-0 	+1 	+0 
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	72	+1 	+2 	+1 
2f. Learned something that changed the way you understand an issue or concept	67	-0 	+0 	+0 
2g. Connected ideas from your courses to your prior experiences and knowledge	80	+1 	+2 	+2 
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	81	+5 	+7 	+6 
9b. Reviewed your notes after class	67	+1 	+2 	+1 
9c. Summarized what you learned in class or from course materials	64	-0 	+1 	+0 
Quantitative Reasoning				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	48	-5 	-5 	-4 
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	41	-1 	-1 	+0 
6c. Evaluated what others have concluded from numerical information	41	-1 	-0 	+1 

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

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

Academic Challenge: Seniors

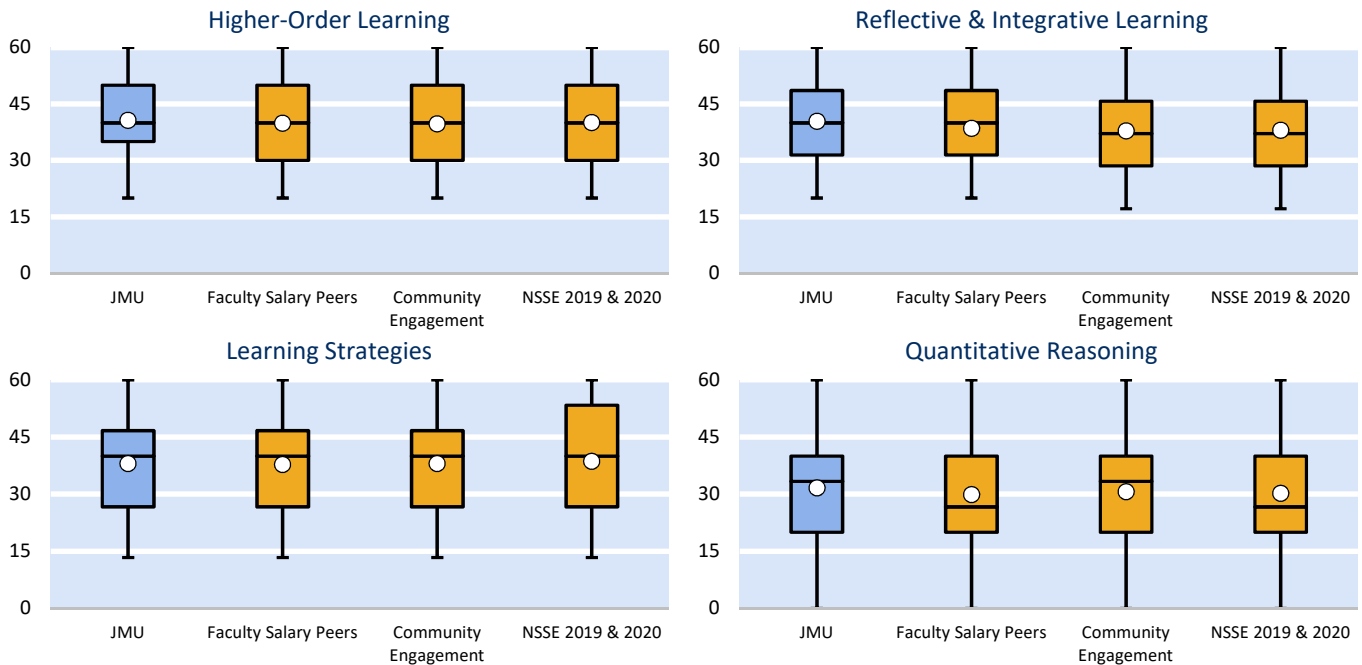
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Mean Comparisons

Engagement Indicator	JMU Mean	Your seniors compared with					
		Faculty Salary Peers		Community Engagement		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	40.7	39.9	.06	39.8 *	.07	40.1	.04
Reflective & Integrative Learning	40.4	38.6 ***	.15	37.9 ***	.20	38.1 ***	.19
Learning Strategies	38.1	37.7	.02	38.1	.00	38.6	-.04
Quantitative Reasoning	31.6	29.9 **	.11	30.6	.06	30.2 *	.08

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

Score Distributions






















































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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.

	JMU	Percentage point difference ^a between your seniors and		
		Faculty Salary Peers	Community Engagement	NSSE 2019 & 2020
Higher-Order Learning				
<i>Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized...</i>				
	%			
4b. Applying facts, theories, or methods to practical problems or new situations	81	+3 	+4 	+4 
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	77	+2 	+2 	+2 
4d. Evaluating a point of view, decision, or information source	73	+3 	+4 	+2 
4e. Forming a new idea or understanding from various pieces of information	74	+2 	+3 	+1 
Reflective & Integrative Learning				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
2a. Combined ideas from different courses when completing assignments	75	+2 	+6 	+7 
2b. Connected your learning to societal problems or issues	69	+6 	+9 	+8 
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	60	+5 	+8 	+7 
2d. Examined the strengths and weaknesses of your own views on a topic or issue	71	+4 	+5 	+4 
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	75	+1 	+3 	+2 
2f. Learned something that changed the way you understand an issue or concept	76	+4 	+5 	+5 
2g. Connected ideas from your courses to your prior experiences and knowledge	88	+4 	+5 	+5 
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	80	+2 	+3 	+2 
9b. Reviewed your notes after class	58	-2 	-4 	-5 
9c. Summarized what you learned in class or from course materials	63	+1 	+0 	-1 
Quantitative Reasoning				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	56	+2 	-1 	-0 
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	49	+4 	+3 	+3 
6c. Evaluated what others have concluded from numerical information	52	+6 	+5 	+6 

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Learning with Peers: First-year students

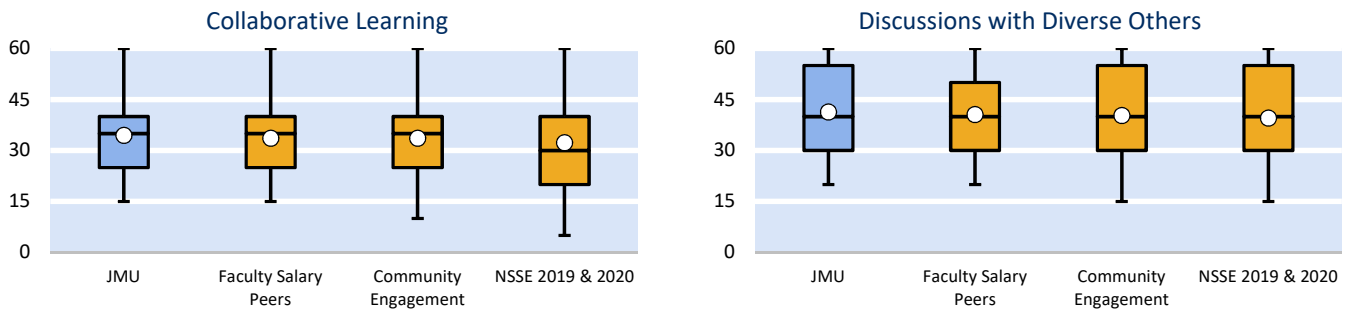
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions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

Mean Comparisons

Engagement Indicator	JMU Mean	Your first-year students compared with					
		Faculty Salary Peers		Community Engagement		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	34.4	33.5 *	.07	33.6 *	.06	32.2 ***	.15
Discussions with Diverse Others	41.3	40.6	.05	40.3 *	.07	39.5 ***	.12

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	JMU	Percentage point difference ^a between your FY students and		
		Faculty Salary Peers	Community Engagement	NSSE 2019 & 2020
Collaborative Learning				
Percentage of students who responded that they "Very often" or "Often"...				
1e. Asked another student to help you understand course material	54	-0	-1	+2
1f. Explained course material to one or more students	62	+1	+2	+5
1g. Prepared for exams by discussing or working through course material with other students	57	+5	+4	+7
1h. Worked with other students on course projects or assignments	65	+7	+8	+11
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	-1	-1	+1
8b. People from an economic background other than your own	74	-0	+1	+3
8c. People with religious beliefs other than your own	71	-0	+2	+5
8d. People with political views other than your own	74	+4	+8	+10

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Learning with Peers: Seniors

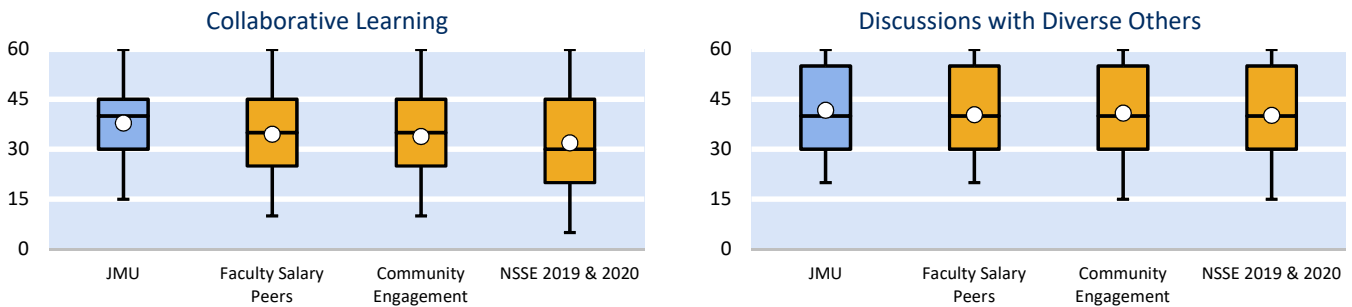
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Mean Comparisons

Engagement Indicator	JMU Mean	Your seniors compared with					
		Faculty Salary Peers		Community Engagement		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	37.9	34.5 ***	.25	33.9 ***	.27	32.0 ***	.38
Discussions with Diverse Others	41.7	40.4 *	.09	40.9	.05	40.2 **	.10

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	JMU	Percentage point difference ^a between your seniors and		
		Faculty Salary Peers	Community Engagement	NSSE 2019 & 2020
Collaborative Learning				
Percentage of students who responded that they "Very often" or "Often"...				
1e. Asked another student to help you understand course material	56	+8	+9	+13
1f. Explained course material to one or more students	70	+6	+9	+13
1g. Prepared for exams by discussing or working through course material with other students	60	+10	+10	+14
1h. Worked with other students on course projects or assignments	79	+8	+12	+16
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	72	+1	-1	+0
8b. People from an economic background other than your own	74	+1	-0	+1
8c. People with religious beliefs other than your own	73	+3	+3	+5
8d. People with political views other than your own	70	+3	+4	+5

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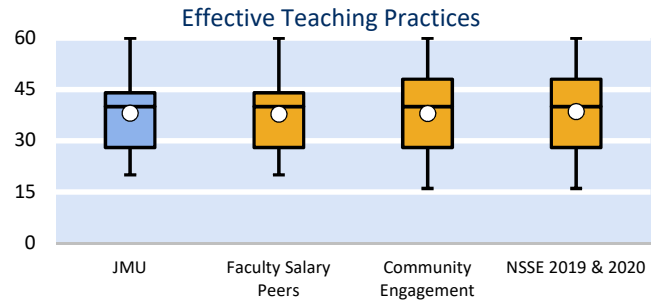
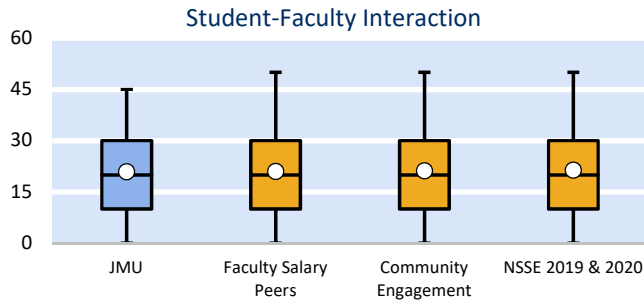
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course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

Mean Comparisons

Engagement Indicator	JMU Mean	Your first-year students compared with					
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	Mean	Mean	Effect size	Mean	Effect size	Mean	Effect size
Student-Faculty Interaction	20.9	21.0	-.01	21.2	-.02	21.4	-.03
Effective Teaching Practices	38.0	37.7	.02	37.9	.01	38.4	-.03

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Student-Faculty Interaction	JMU %	Percentage point difference ^a between your FY students and		
		Faculty Salary Peers	Community Engagement	NSSE 2019 & 2020
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
3a. Talked about career plans with a faculty member	33	-4	-5	-5
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	19	-1	-2	-2
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	27	+2	+2	+1
3d. Discussed your academic performance with a faculty member	28	+0	-1	-2
<i>Effective Teaching Practices</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much instructors have...</i>				
5a. Clearly explained course goals and requirements	77	+0	+1	+0
5b. Taught course sessions in an organized way	77	+1	+3	+3
5c. Used examples or illustrations to explain difficult points	77	+1	+3	+3
5d. Provided feedback on a draft or work in progress	59	-2	-2	-4
5e. Provided prompt and detailed feedback on tests or completed assignments	60	+4	+2	+0

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Experiences with Faculty: Seniors

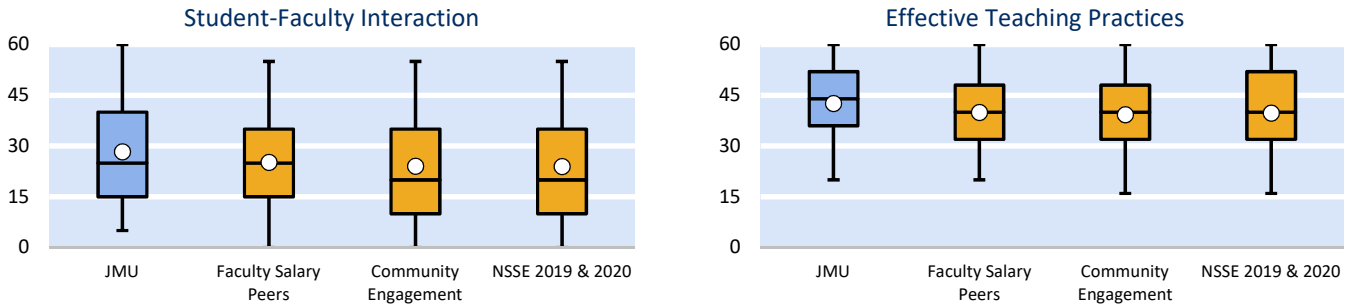
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Student-Faculty Interaction	28.3	25.1 ***	.20	24.0 ***	.27	23.9 ***	.27
Effective Teaching Practices	42.5	39.9 ***	.21	39.2 ***	.24	39.7 ***	.20

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<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
3a. Talked about career plans with a faculty member	50	+4	+7	+7
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	36	+6	+7	+8
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	43	+8	+11	+11
3d. Discussed your academic performance with a faculty member	39	+5	+6	+5
<i>Effective Teaching Practices</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much instructors have...</i>				
5a. Clearly explained course goals and requirements	86	+4	+6	+6
5b. Taught course sessions in an organized way	86	+6	+9	+9
5c. Used examples or illustrations to explain difficult points	86	+6	+8	+8
5d. Provided feedback on a draft or work in progress	69	+7	+9	+8
5e. Provided prompt and detailed feedback on tests or completed assignments	71	+7	+9	+7

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

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

Campus Environment: First-year students

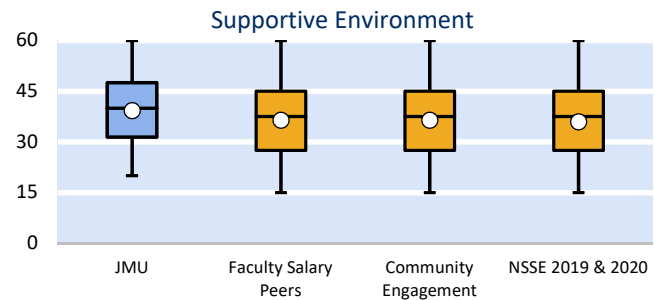
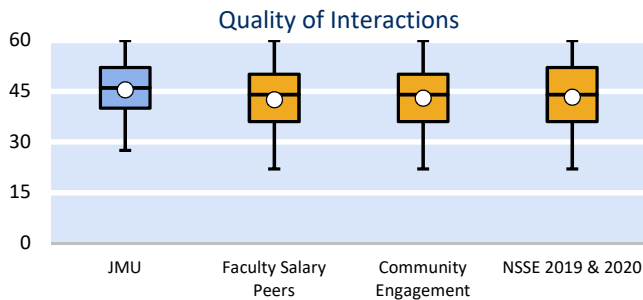
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

Mean Comparisons

Engagement Indicator	JMU Mean	Your first-year students compared with					
		Faculty Salary Peers		Community Engagement		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	45.4	42.5 ***	.27	43.0 ***	.21	43.2 ***	.18
Supportive Environment	39.3	36.5 ***	.23	36.4 ***	.22	36.0 ***	.25

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

Score Distributions



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

Performance on Indicator Items

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

Quality of Interactions	JMU	Percentage point difference ^a between your FY students and		
		Faculty Salary Peers	Community Engagement	NSSE 2019 & 2020
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
	%			
13a. Students	62	+12	+9	+10
13b. Academic advisors	53	+2	+0	-1
13c. Faculty	57	+8	+7	+5
13d. Student services staff (career services, student activities, housing, etc.)	59	+14	+12	+11
13e. Other administrative staff and offices (registrar, financial aid, etc.)	53	+10	+8	+6
<i>Supportive Environment</i>				
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	79	+2	+3	+4
14c. Using learning support services (tutoring services, writing center, etc.)	78	-0	+2	+2
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	65	+4	+3	+3
14e. Providing opportunities to be involved socially	84	+9	+12	+13
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	82	+10	+11	+14
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	52	+11	+10	+10
14h. Attending campus activities and events (performing arts, athletic events, etc.)	74	+6	+7	+10
14i. Attending events that address important social, economic, or political issues	57	+7	+9	+9

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

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

Campus Environment: Seniors

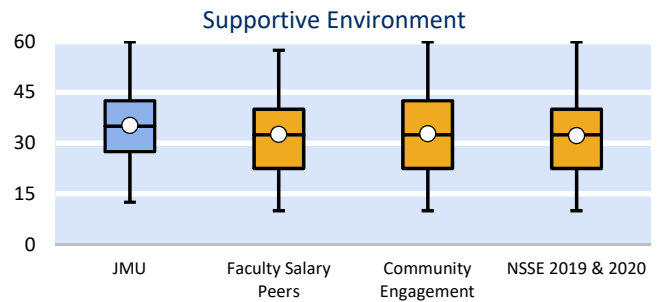
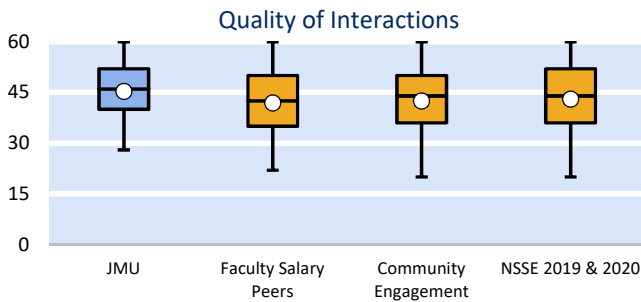
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your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

Mean Comparisons

Engagement Indicator	JMU Mean	Your seniors compared with					
		Faculty Salary Peers		Community Engagement		NSSE 2019 & 2020	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	45.3	41.9 ***	.31	42.5 ***	.24	43.0 ***	.19
Supportive Environment	35.3	32.6 ***	.20	32.8 ***	.18	32.2 ***	.22

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

Score Distributions



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

Performance on Indicator Items

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

Quality of Interactions	JMU	Percentage point difference ^a between your seniors and		
		Faculty Salary Peers	Community Engagement	NSSE 2019 & 2020
<i>Percentage rating their interactions a 6 or 7 (on a scale from 1="Poor" to 7="Excellent") with...</i>				
13a. Students	71	+15	+13	+13
13b. Academic advisors	52	+6	+1	-2
13c. Faculty	63	+9	+8	+6
13d. Student services staff (career services, student activities, housing, etc.)	55	+15	+12	+11
13e. Other administrative staff and offices (registrar, financial aid, etc.)	48	+7	+6	+3
<i>Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...</i>				
14b. Providing support to help students succeed academically	77	+6	+7	+7
14c. Using learning support services (tutoring services, writing center, etc.)	68	+3	+2	+2
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	52	-0	-4	-3
14e. Providing opportunities to be involved socially	79	+10	+12	+15
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	72	+9	+9	+12
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	37	+7	+5	+5
14h. Attending campus activities and events (performing arts, athletic events, etc.)	68	+12	+11	+16
14i. Attending events that address important social, economic, or political issues	44	+1	+2	+4

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

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

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Comparisons with Top 50% and Top 10% Institutions

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

- (a) institutions with average scores placing them in the top 50% of all 2019 and 2020 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2019 and 2020 NSSE institutions.

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

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

First-Year Students

Theme	Engagement Indicator	JMU Mean	Your first-year students compared with					
			NSSE Top 50%			NSSE Top 10%		
			Mean	Effect size	✓	Mean	Effect size	✓
	Higher-Order Learning	39.3	39.3	-.01	✓	41.4 ***	-.17	
Academic	Reflective and Integrative Learning	35.4	36.7 ***	-.11		39.0 ***	-.31	
Challenge	Learning Strategies	39.0	39.9 *	-.07		42.3 ***	-.24	
	Quantitative Reasoning	28.4	29.4 *	-.07		31.4 ***	-.19	
Learning	Collaborative Learning	34.4	35.2	-.06	✓	37.4 ***	-.22	
with Peers	Discussions with Diverse Others	41.3	41.5	-.01	✓	43.6 ***	-.16	
Experiences	Student-Faculty Interaction	20.9	24.5 ***	-.24		28.1 ***	-.47	
with Faculty	Effective Teaching Practices	38.0	40.5 ***	-.19		42.3 ***	-.30	
Campus	Quality of Interactions	45.4	45.2	.02	✓	47.2 ***	-.16	
Environment	Supportive Environment	39.3	37.9 ***	.11	✓	40.1	-.06	✓

Seniors

Theme	Engagement Indicator	JMU Mean	Your seniors compared with					
			NSSE Top 50%			NSSE Top 10%		
			Mean	Effect size	✓	Mean	Effect size	✓
	Higher-Order Learning	40.7	41.7 *	-.08		43.2 ***	-.19	
Academic	Reflective and Integrative Learning	40.4	39.8	.05	✓	41.8 ***	-.11	
Challenge	Learning Strategies	38.1	40.7 ***	-.18		42.7 ***	-.32	
	Quantitative Reasoning	31.6	31.4	.01	✓	33.4 **	-.11	
Learning	Collaborative Learning	37.9	35.9 ***	.14	✓	38.4	-.04	✓
with Peers	Discussions with Diverse Others	41.7	42.1	-.02	✓	43.8 ***	-.13	
Experiences	Student-Faculty Interaction	28.3	29.7 **	-.09		33.2 ***	-.31	
with Faculty	Effective Teaching Practices	42.5	41.8	.06	✓	43.8 **	-.09	
Campus	Quality of Interactions	45.3	45.2	.01	✓	47.4 ***	-.17	
Environment	Supportive Environment	35.3	34.6	.05	✓	36.8 **	-.11	

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

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

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

Detailed Statistics: First-Year Students

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
JMU (N = 906)	39.3	12.1	.40	20	30	40	50	60				
Faculty Salary Peers	38.0	12.4	.16	20	30	40	45	60	6,970	1.3	.004	.103
Community Engagement	38.0	13.0	.05	20	30	40	45	60	930	1.2	.002	.096
NSSE 2019 & 2020	38.0	13.2	.03	20	30	40	45	60	915	1.2	.003	.092
Top 50%	39.3	13.1	.04	20	30	40	50	60	922	-.1	.864	-.005
Top 10%	41.4	12.8	.09	20	35	40	50	60	992	-2.1	.000	-.167
Reflective & Integrative Learning												
JMU (N = 966)	35.4	10.9	.35	20	29	34	43	57				
Faculty Salary Peers	35.5	11.3	.14	17	29	34	43	57	7,485	-.2	.691	-.014
Community Engagement	35.2	11.9	.04	17	26	34	43	57	992	.2	.516	.019
NSSE 2019 & 2020	35.2	12.0	.03	17	26	34	43	57	976	.2	.515	.019
Top 50%	36.7	11.8	.04	17	29	37	46	57	985	-1.3	.000	-.111
Top 10%	39.0	11.7	.09	20	31	40	49	60	1,095	-3.6	.000	-.306
Learning Strategies												
JMU (N = 864)	39.0	12.9	.44	20	27	40	47	60				
Faculty Salary Peers	38.2	13.2	.17	20	27	40	47	60	6,601	.8	.116	.057
Community Engagement	38.0	13.7	.05	20	27	40	47	60	887	1.0	.019	.076
NSSE 2019 & 2020	38.3	13.8	.03	20	27	40	47	60	873	.7	.100	.052
Top 50%	39.9	13.8	.04	20	33	40	53	60	881	-.9	.036	-.067
Top 10%	42.3	14.1	.10	20	33	40	53	60	951	-3.3	.000	-.236
Quantitative Reasoning												
JMU (N = 885)	28.4	14.7	.49	7	20	27	40	60				
Faculty Salary Peers	28.7	14.7	.19	7	20	27	40	60	6,721	-.3	.608	-.018
Community Engagement	28.7	15.1	.06	7	20	27	40	60	74,844	-.3	.557	-.020
NSSE 2019 & 2020	28.2	15.3	.04	0	20	27	40	60	191,866	.2	.669	.014
Top 50%	29.4	15.2	.04	7	20	27	40	60	124,509	-1.0	.049	-.066
Top 10%	31.4	15.3	.09	7	20	33	40	60	949	-3.0	.000	-.193
Learning with Peers												
Collaborative Learning												
JMU (N = 1008)	34.4	12.4	.39	15	25	35	40	60				
Faculty Salary Peers	33.5	13.3	.16	15	25	35	40	60	1,363	.9	.042	.065
Community Engagement	33.6	14.0	.05	10	25	35	40	60	1,035	.8	.039	.058
NSSE 2019 & 2020	32.2	14.7	.03	5	20	30	40	60	1,019	2.2	.000	.147
Top 50%	35.2	13.7	.04	15	25	35	45	60	1,024	-.8	.051	-.056
Top 10%	37.4	13.5	.08	15	30	40	45	60	1,088	-3.0	.000	-.221
Discussions with Diverse Others												
JMU (N = 875)	41.3	14.1	.48	20	30	40	55	60				
Faculty Salary Peers	40.6	14.3	.19	20	30	40	50	60	6,654	.8	.133	.054
Community Engagement	40.3	15.1	.06	15	30	40	55	60	74,234	1.1	.037	.071
NSSE 2019 & 2020	39.5	15.6	.04	15	30	40	55	60	884	1.8	.000	.119
Top 50%	41.5	15.0	.04	20	30	40	55	60	888	-.1	.822	-.007
Top 10%	43.6	14.5	.09	20	35	45	60	60	27,274	-2.3	.000	-.156

Detailed Statistics: First-Year Students

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
JMU (N = 922)	20.9	13.8	.46	0	10	20	30	45				
Faculty Salary Peers	21.0	14.2	.18	0	10	20	30	50	7,185	-.1	.824	-.008
Community Engagement	21.2	14.5	.05	0	10	20	30	50	80,683	-.3	.546	-.020
NSSE 2019 & 2020	21.4	14.6	.03	0	10	20	30	50	931	-.5	.303	-.032
Top 50%	24.5	14.7	.05	5	15	20	35	55	948	-3.6	.000	-.243
Top 10%	28.1	15.5	.16	5	15	25	40	60	1,153	-7.2	.000	-.470
Effective Teaching Practices												
JMU (N = 908)	38.0	12.1	.40	20	28	40	44	60				
Faculty Salary Peers	37.7	12.3	.16	20	28	40	44	60	6,955	.3	.519	.023
Community Engagement	37.9	12.9	.05	16	28	40	48	60	932	.1	.849	.006
NSSE 2019 & 2020	38.4	13.2	.03	16	28	40	48	60	917	-.4	.290	-.032
Top 50%	40.5	13.2	.05	20	32	40	52	60	931	-2.5	.000	-.190
Top 10%	42.3	14.1	.09	16	32	44	56	60	1,008	-4.3	.000	-.302
Campus Environment												
Quality of Interactions												
JMU (N = 826)	45.4	10.0	.35	28	40	46	52	60				
Faculty Salary Peers	42.5	11.1	.15	22	36	44	50	60	1,157	2.9	.000	.268
Community Engagement	43.0	11.5	.04	22	36	44	50	60	851	2.4	.000	.211
NSSE 2019 & 2020	43.2	11.8	.03	22	36	44	52	60	836	2.2	.000	.185
Top 50%	45.2	11.2	.04	24	38	46	54	60	847	.2	.512	.021
Top 10%	47.2	11.6	.09	25	40	50	58	60	927	-1.8	.000	-.156
Supportive Environment												
JMU (N = 852)	39.3	11.9	.41	20	31	40	48	60				
Faculty Salary Peers	36.5	12.7	.17	15	28	38	45	60	1,165	2.8	.000	.225
Community Engagement	36.4	13.3	.05	15	28	38	45	60	877	2.9	.000	.219
NSSE 2019 & 2020	36.0	13.5	.03	15	28	38	45	60	861	3.3	.000	.248
Top 50%	37.9	13.1	.04	18	29	38	48	60	870	1.4	.000	.110
Top 10%	40.1	12.9	.10	18	33	40	50	60	964	-.7	.078	-.058

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

b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI (equal to the sample mean +/- 1.96 x SE) is the range that is 95% likely to contain the true population mean.

d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.

e. Degrees of freedom used to compute the *t*-tests. Values vary from the total Ns due to weighting and whether equal variances were assumed.

f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

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

Detailed Statistics: Seniors

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
JMU (N = 878)	40.7	12.5	.42	20	35	40	50	60				
Faculty Salary Peers	39.9	13.0	.14	20	30	40	50	60	9,483	.8	.076	.063
Community Engagement	39.8	13.5	.04	20	30	40	50	60	893	.9	.027	.069
NSSE 2019 & 2020	40.1	13.5	.03	20	30	40	50	60	884	.6	.159	.044
Top 50%	41.7	13.4	.04	20	35	40	55	60	891	-1.0	.015	-.077
Top 10%	43.2	13.3	.08	20	35	40	55	60	935	-2.5	.000	-.187
Reflective & Integrative Learning												
JMU (N = 925)	40.4	12.0	.40	20	31	40	49	60				
Faculty Salary Peers	38.6	12.0	.13	20	31	40	49	60	9,941	1.8	.000	.150
Community Engagement	37.9	12.5	.04	17	29	37	46	60	123,827	2.5	.000	.202
NSSE 2019 & 2020	38.1	12.5	.02	17	29	37	46	60	304,995	2.3	.000	.187
Top 50%	39.8	12.2	.03	20	31	40	49	60	125,935	.6	.151	.047
Top 10%	41.8	12.0	.08	20	34	40	51	60	21,235	-1.4	.001	-.115
Learning Strategies												
JMU (N = 852)	38.1	14.4	.49	13	27	40	47	60				
Faculty Salary Peers	37.7	14.2	.16	13	27	40	47	60	9,139	.3	.540	.022
Community Engagement	38.1	14.5	.04	13	27	40	47	60	111,277	.0	.998	.000
NSSE 2019 & 2020	38.6	14.6	.03	13	27	40	53	60	275,498	-.6	.265	-.038
Top 50%	40.7	14.5	.04	20	33	40	53	60	141,376	-2.6	.000	-.181
Top 10%	42.7	14.4	.07	20	33	40	60	60	46,080	-4.6	.000	-.319
Quantitative Reasoning												
JMU (N = 854)	31.6	15.8	.54	0	20	33	40	60				
Faculty Salary Peers	29.9	15.9	.17	0	20	27	40	60	9,227	1.7	.003	.108
Community Engagement	30.6	16.1	.05	0	20	33	40	60	112,827	1.0	.082	.060
NSSE 2019 & 2020	30.2	16.2	.03	0	20	27	40	60	278,968	1.4	.014	.084
Top 50%	31.4	16.1	.04	0	20	33	40	60	179,699	.2	.741	.011
Top 10%	33.4	15.9	.08	7	20	33	40	60	36,020	-1.8	.001	-.111
Learning with Peers												
Collaborative Learning												
JMU (N = 962)	37.9	13.1	.42	15	30	40	45	60				
Faculty Salary Peers	34.5	14.0	.14	10	25	35	45	60	1,193	3.4	.000	.245
Community Engagement	33.9	14.7	.04	10	25	35	45	60	979	4.0	.000	.273
NSSE 2019 & 2020	32.0	15.6	.03	5	20	30	45	60	969	5.9	.000	.381
Top 50%	35.9	14.0	.03	15	25	35	45	60	974	2.0	.000	.143
Top 10%	38.4	13.6	.08	15	30	40	50	60	29,002	-.5	.283	-.035
Discussions with Diverse Others												
JMU (N = 856)	41.7	14.1	.48	20	30	40	55	60				
Faculty Salary Peers	40.4	14.9	.16	20	30	40	55	60	9,153	1.4	.011	.092
Community Engagement	40.9	15.6	.05	15	30	40	55	60	871	.8	.088	.053
NSSE 2019 & 2020	40.2	15.9	.03	15	30	40	55	60	862	1.5	.001	.097
Top 50%	42.1	15.5	.04	15	30	40	60	60	865	-.3	.522	-.020
Top 10%	43.8	15.3	.07	20	35	45	60	60	894	-2.0	.000	-.133

Detailed Statistics: Seniors

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SE ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
JMU (N = 895)	28.3	15.7	.52	5	15	25	40	60				
Faculty Salary Peers	25.1	15.7	.17	0	15	25	35	55	9,669	3.1	.000	.201
Community Engagement	24.0	15.9	.05	0	10	20	35	55	119,679	4.3	.000	.267
NSSE 2019 & 2020	23.9	16.1	.03	0	10	20	35	55	295,390	4.4	.000	.272
Top 50%	29.7	15.9	.06	5	20	30	40	60	66,717	-1.4	.009	-.088
Top 10%	33.2	16.0	.15	10	20	35	45	60	12,365	-5.0	.000	-.311
Effective Teaching Practices												
JMU (N = 874)	42.5	12.0	.40	20	36	44	52	60				
Faculty Salary Peers	39.9	12.6	.14	20	32	40	48	60	9,489	2.6	.000	.210
Community Engagement	39.2	13.6	.04	16	32	40	48	60	890	3.3	.000	.242
NSSE 2019 & 2020	39.7	13.8	.03	16	32	40	52	60	880	2.8	.000	.203
Top 50%	41.8	13.7	.04	20	32	40	52	60	891	.8	.062	.056
Top 10%	43.8	13.5	.09	20	36	44	56	60	959	-1.2	.003	-.092
Campus Environment												
Quality of Interactions												
JMU (N = 820)	45.3	10.3	.36	28	40	46	52	60				
Faculty Salary Peers	41.9	11.3	.13	22	35	43	50	60	1,035	3.4	.000	.305
Community Engagement	42.5	12.0	.04	20	36	44	50	60	837	2.9	.000	.240
NSSE 2019 & 2020	43.0	12.1	.02	20	36	44	52	60	826	2.3	.000	.189
Top 50%	45.2	11.7	.03	24	38	48	54	60	834	.1	.798	.008
Top 10%	47.4	12.0	.06	24	40	50	58	60	870	-2.1	.000	-.172
Supportive Environment												
JMU (N = 835)	35.3	12.9	.45	13	28	35	43	60				
Faculty Salary Peers	32.6	13.4	.15	10	23	33	40	58	8,925	2.7	.000	.203
Community Engagement	32.8	14.0	.04	10	23	33	43	60	849	2.5	.000	.177
NSSE 2019 & 2020	32.2	14.2	.03	10	23	33	40	60	840	3.1	.000	.219
Top 50%	34.6	14.0	.04	13	25	35	45	60	848	.7	.115	.051
Top 10%	36.8	14.1	.10	13	28	38	48	60	913	-1.5	.001	-.107

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

b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI (equal to the sample mean +/- 1.96 x SE) is the range that is 95% likely to contain the true population mean.

d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.

e. Degrees of freedom used to compute the *t*-tests. Values vary from the total Ns due to weighting and whether equal variances were assumed.

f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

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