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**NSSE 2017**  
**Engagement Indicators**  
Wichita State University

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## About Your *Engagement Indicators* Report

Theme	Engagement Indicator
	Higher-Order Learning
	Reflective & Integrative Learning
	Learning Strategies
	Quantitative Reasoning
	Collaborative Learning
	Discussions with Diverse Others
	Student-Faculty Interaction
	Effective Teaching Practices
	Quality of Interactions
	Supportive Environment

### Report Sections

Overview (p. 3)

Theme Reports (pp. 4-13)

Mean Comparisons

Score Distributions

Performance on Indicator Items

### Interpreting Comparisons

Mean comparisons report both statistical significance and effect size. Effect size indicates the practical importance of an observed difference. For EI comparisons, NSSE research has concluded that an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview (p. 3).

*EIs vary more among students within*

### How Engagement Indicators are Computed

# NSSE 2017 Engagement Indicators

## Overview

### Wichita State 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 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

Theme	Engagement Indicator	Your first-year students compared with WSU Peers	Your first-year students compared with Carnegie Class	Your first-year students compared with Large City, Public
	Higher-Order Learning			
Academic Challenge	Reflective & Integrative Learning	--		
	Learning Strategies			
	Quantitative Reasoning		--	--
Learning with Peers	Collaborative Learning			
	Discussions with Diverse Others	--	--	--
Experiences with Faculty	Student-Faculty Interaction			
	Effective Teaching Practices	--	--	--
Campus Environment	Quality of Interactions	--	--	--
	Supportive Environment	--	--	--

#### Seniors

Theme	Engagement Indicator	Your seniors compared with WSU Peers	Your seniors compared with Carnegie Class	Your seniors compared with Large City, Public
	Higher-Order Learning			
Academic Challenge	Reflective & Integrative Learning	--		
	Learning Strategies	--	--	--
	Quantitative Reasoning			
Learning with Peers	Collaborative Learning			
	Discussions with Diverse Others	--	--	--
Experiences with Faculty	Student-Faculty Interaction			
	Effective Teaching Practices	--		
Campus Environment	Quality of Interactions	--	--	--
	Supportive Environment			

# NSSE 2017 Engagement Indicators

## Academic Challenge

### Wichita State University

#### Academic Challenge: First-year students

Challenging intellectual and creative work is central to student learning and intellectual 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.

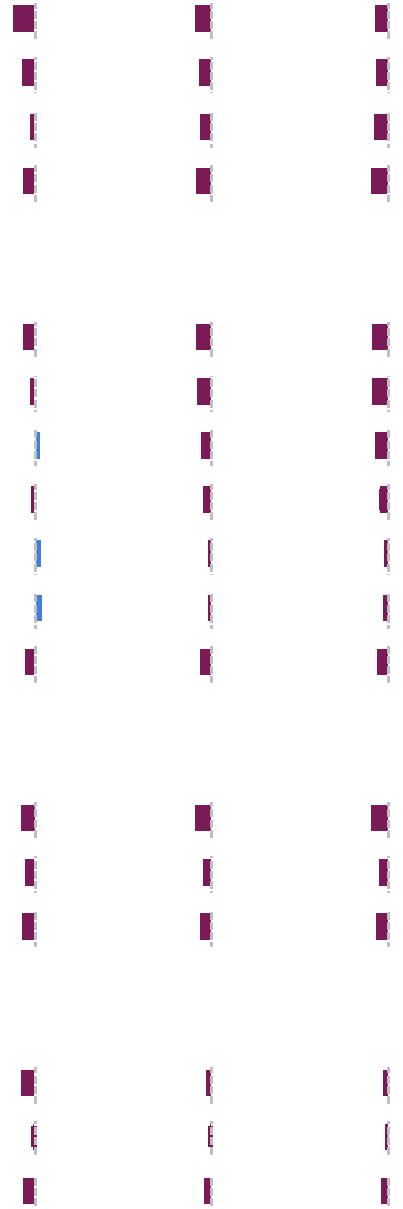
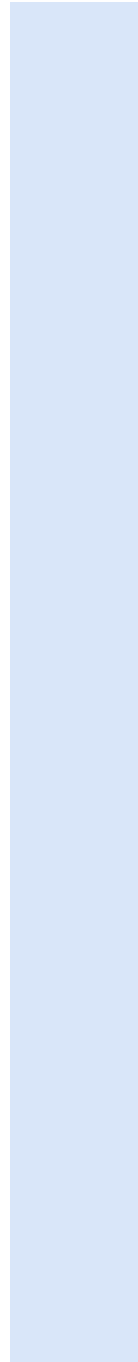
#### Mean Comparisons

Engagement Indicator	Wichita State Mean	Your first-year students compared with					
		WSU Peers		Carnegie Class		Large City, Public	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	35.0	37.6**	-.21	37.9**	-.23	38.0*	-.23
Reflective & Integrative Learning	32.6	33.2	-.05	34.8*	-.19	35.4**	-.21
Learning Strategies	34.9	37.4**	-.19	37.7*	-.21	37.9	-.22
Quantitative Reasoning		*					-.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.

#### Score Distributions

Academic Challenge 11.52 0.96 2.96 1.68 re f 0.477 0 Ait-y61277 rg 0 0 m 49.8 0 | 49.8 -6.6



# NSSE 2017 Engagement Indicators

Academic Challenge

Wichita State University

## Academic Challenge: Seniors

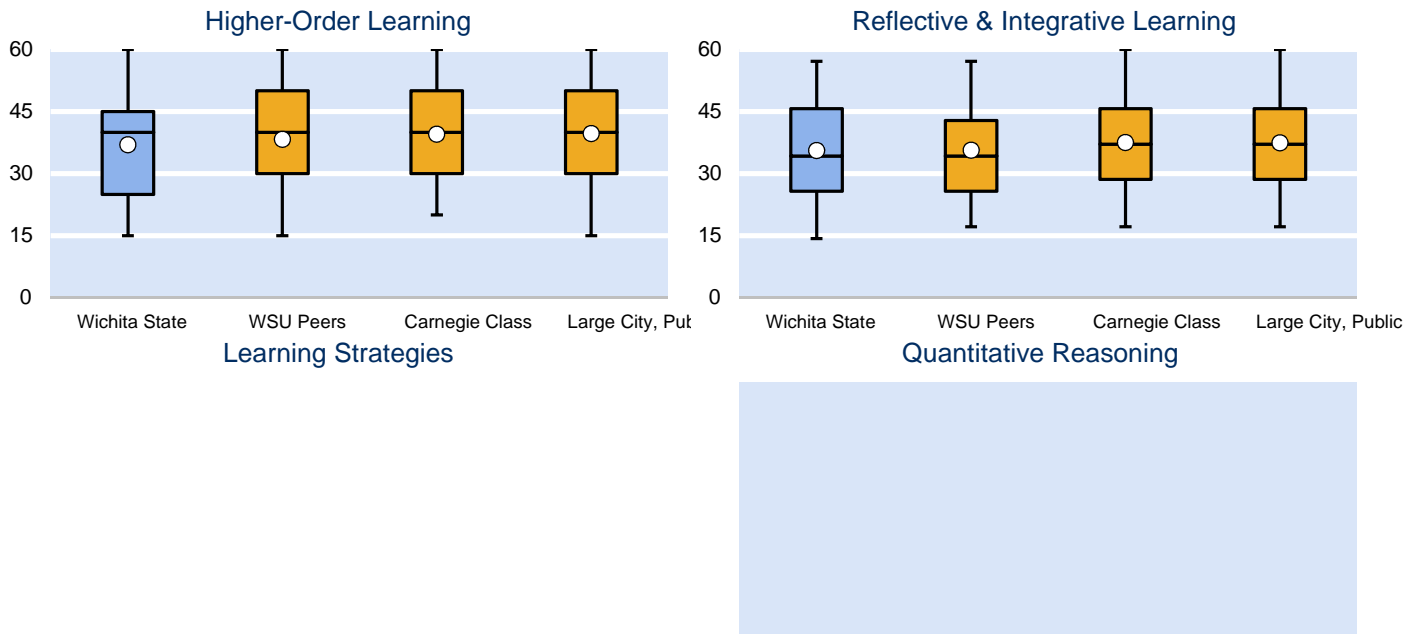
Challenging intellectual and creative work is central to student learning and intellectual quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*, *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	Wichita State Mean	Your seniors compared with					
		WSU Peers Effect size		Carnegie Class Effect size		Large City, Public Effect size	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	37.0	38.3 *	-.10	39.5***	-.19	39.7**	-.20
Reflective & Integrative Learning	35.6	35.7	-.01	37.6 ***	-.16	37.4***	-.14
Learning Strategies	37.9	37.1	.06	37.9	.00	38.6	-.04
Quantitative Reasoning	28.2	31.8***	-.23	30.3**	-.13	29.9	-.10

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 are rounded; \* $p < .05$ , \*\* $p < .01$ , \*\*\* $p < .001$  (2-tailed).

### Score Distributions



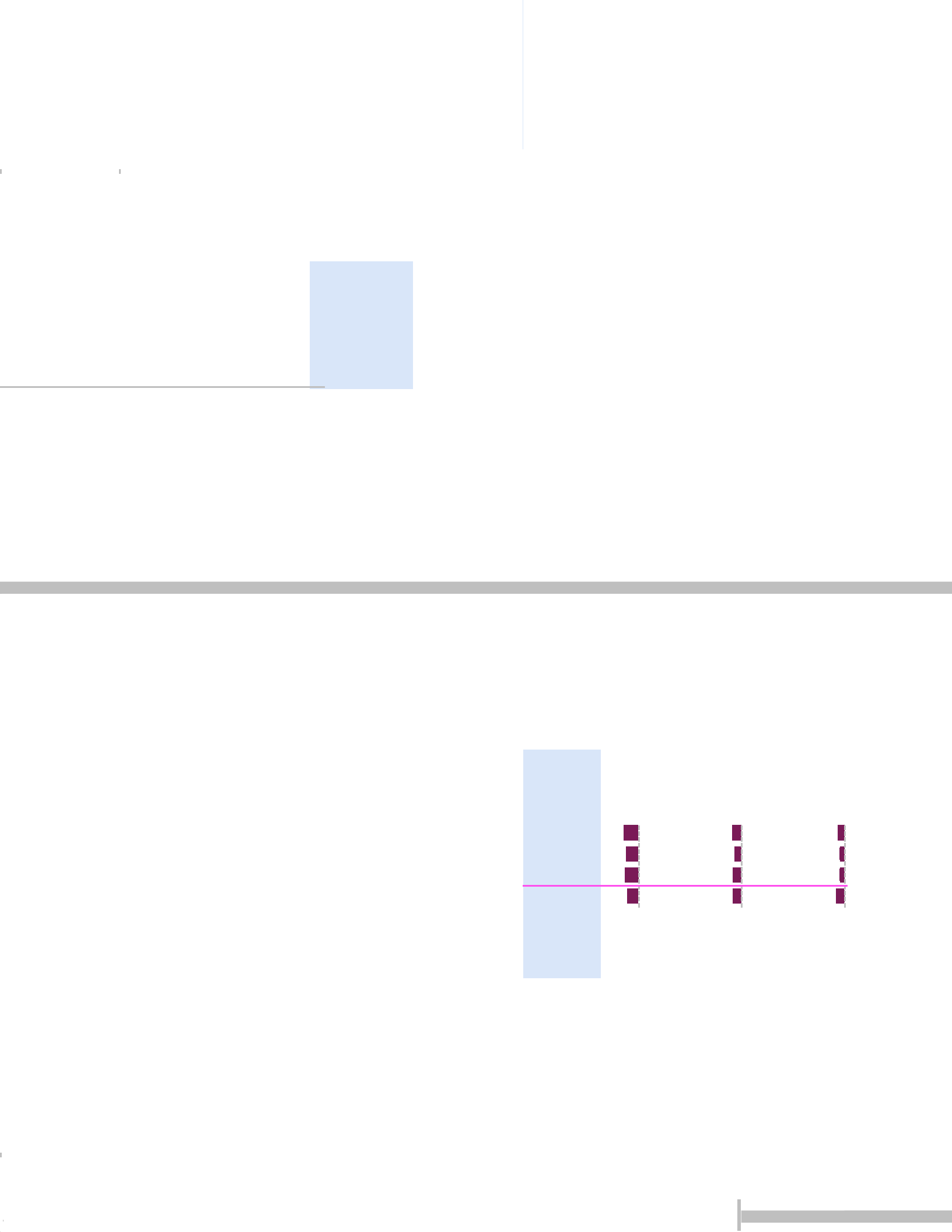
Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of upper bar) and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

## Academic Challenge: Seniors (continued)

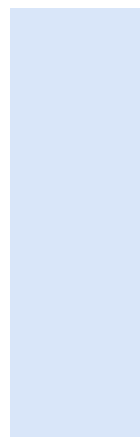
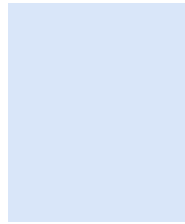
### Performance on Indicator Items

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.

	Wichita State	Percentage point difference between your seniors and		
		WSU Peers	Carnegie Class	Large City, Public
<b>Higher-Order Learning</b>				
<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	74	-6	-5	-4
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	67	-6	-8	-8
4d. Evaluating a point of view, decision, or information source	60	+0	-7	-8
4e. Forming a new idea or understanding from various pieces of information	65	+1	-7	-8
<b>Reflective &amp; Integrative Learning</b>				
2a.	63	-7	-7	-5
2b.	52			-7
	44			-6
2d.	62	+2	-2	-2
	70	+5		
2f.	68			
2g.	80			
<b>Learning Strategies</b>				
9a.	74			
9b.	64			
9c.	63			
<b>Quantitative Reasoning</b>				
	54			
	39			
6c.	38			





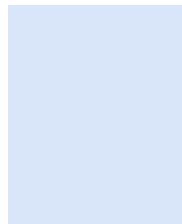


# Experiences with Faculty: First-year students

## Mean Comparisons

*Engagement Indicator*

Student-Faculty Interaction  
Effective Teaching Practices



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## Score Distributions

## Performance on Indicator Items

### Student-Faculty Interaction

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

%

30

15

17

23

### Effective Teaching Practices

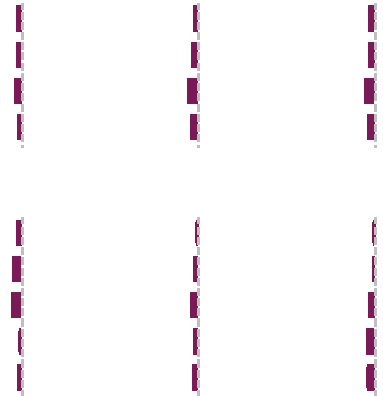
- 5a. Clearly explained course goals and requirements
- 5b. Taught course sessions in an organized way
- 5c. Used examples or illustrations to explain difficult points
- 5d. Provided feedback on a draft or work in progress

76

72

69

57

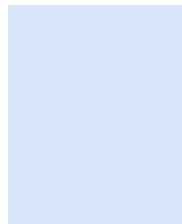


# Experiences with Faculty: Seniors

## Mean Comparisons

*Engagement Indicator*

Student-Faculty Interaction  
Effective Teaching Practices



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## Score Distributions

## Performance on Indicator Items

### Student-Faculty Interaction

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

%

36

20

25

28

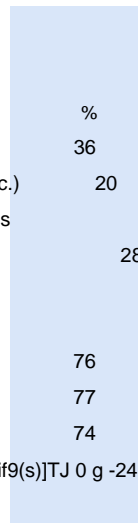
### Effective Teaching Practices

- 5a. Clearly explained course goals and requirements
- 5b. Taught course sessions in an organized way
- 5c. Used examples or illustrations to explain difficult points
- 5d. Provided examples of effective teaching practices

76

77

74



36

20

25

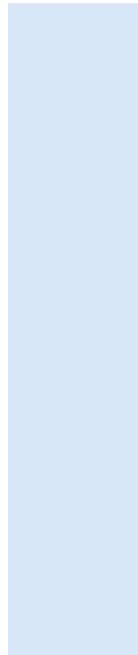
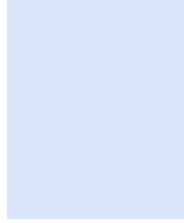
28

76

77

74

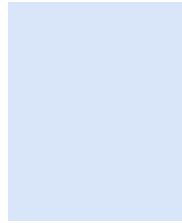
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# Campus Environment: Seniors

## Mean Comparisons

*Engagement Indicator*  
**Quality of Interactions**  
**Supportive Environment**



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## Score Distributions

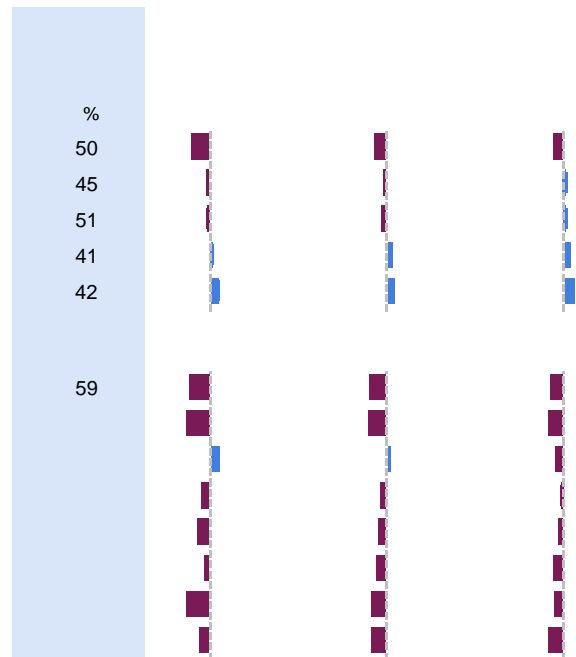
## Performance on Indicator Items

### Quality of Interactions

- 13a. Students
- 13b. Academic advisors
- 13c. Faculty
- 13d. Student services staff (career services, student activities, housing, etc.)
- 13e. Other administrative staff and offices (registrar, financial aid, etc.)

### Supportive Environment

- 14b. Providing support to help students succeed academically
- 14c.)96J 41.504514cnt

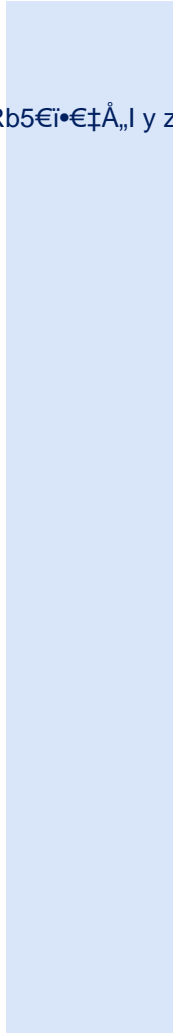


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## Comparisons with Top 50% and Top 10% Institutions

First-Year Students

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## Detailed Statistics: First-year students

	<i>Mean</i>	<i>SD<sup>b</sup></i>	<i>SEM<sup>c</sup></i>	<i>5th</i>	<i>25th</i>	<i>50th</i>	<i>75th</i>	<i>95th</i>	<i>Deg. of freedom<sup>e</sup></i>	<i>Mean diff.</i>	<i>Sig.<sup>f</sup></i>	<i>Effect size<sup>g</sup></i>
<b>Academic Challenge</b>												
<b>Higher-Order Learning</b>												
Wichita State (N = 253)	35.0	12.6	.80	20	25	35	45	60				
WSU Peers	37.6	12.9	.22	20	30	40	45	60	3,594	-2.7	.002	-.206
Carnegie Class	37.9	12.9	.07	20	30	40	45	60	33,374	-2.9	.000	-.226
Large City, Public	38.0	13.3	.07	20	30	40	45	60	32,290	-3.0	.000	-.228
Top 50%	39.2	13.1	.04	20	30	40	50	60	136,255	-4.2	.000	-.321
Top 10%	41.2	13.3	.08	20	35	40	50	60	25,386	-6.2	.000	-.466
<b>Reflective &amp; Integrative Learning</b>												
Wichita State (N = 265)	32.6	11.6	.71	14	23	33	40	54				
WSU Peers	33.2	11.3	.19	17	26	31	40	54	3,784	-.6	.423	-.051
Carnegie Class	34.8	11.8	.06	17	26	34	43	57	34,806	-2.2	.002	-.190
Large City, Public	35.1	12.0	.07	17	26	34	43	57	33,611	-2.5	.001	-.210
Top 50%	36.6	12.0	.03	17	29	37	46	57	126,788	-4.0	.000	-.334
Top 10%	38.3	12.3	.07	20	29	37	46	60	27,720	-5.7	.000	-.463
<b>Learning Strategies</b>												
Wichita State (N = 217)	34.9	14.2	.96	13	27	33	47	60				
WSU Peers	37.4	13.4	.24	13	27	40	47	60	3,221	-2.6	.006	-.192
Carnegie Class	37.7	13.5	.08	20	27	40	47	60	29,452	-2.9	.002	-.211
Large City, Public	37.9	13.7	.08	20	27	40	47	60	28,515	-3.1	.001	-.224
Top 50%	39.8	13.7	.04	20	27	40	53	60	105,311	-5.0	.000	-.363
Top 10%	41.9	14.1	.09	20	33	40	53	60	26,851	-7.1	.000	-.504
<b>Quantitative Reasoning</b>												
Wichita State (N = 251)	26.6	14.9	.94	0	20	27	40	53				
WSU Peers	28.7	14.5	.25	0	20	27	40	53	3,584	-2.2	.022	-.150
Carnegie Class	27.8	15.1	.08	0	20	27	40	60	33,212	-1.2	.209	-.080
Large City, Public	27.8	15.3	.09	0	20	27	40	60	32,107	-1.3	.196	-.082
Top 50%	28.8	15.2	.04	0	20	27	40	60	146,944	-2.3	.018	-.150
Top 10%	30.4	15.2	.08	7	20	27	40	60	35,952	-3.9	.000	-.253
<b>Learning with Peers</b>												



# NSSE 2017 Engagement Indicators

## Detailed Statistics

### Wichita State University

#### Detailed Statistics: First-year students

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Experiences with Faculty</b>												
<b>Student-Faculty Interaction</b>												
Wichita State (N = 258)	17.5	13.7	.85	0	5	15	25	40				
WSU Peers	20.0	13.7	.23	0	10	20	30	45	3,660	-2.5	.005	-.181
Carnegie Class	20.1	14.2	.08	0	10	20	30	45	33,914	-2.6	.003	-.184
Large City, Public	19.8	14.5	.08	0	10	20	30	45	32,774	-2.3	.012	-.157
Top 50%	23.8	14.7	.05	0	15	20	35	55	85,319	-6.3	.000	-.426
Top 10%	27.2	15.6	.13	5	15	25	40	60	269	-9.7	.000	-.624
<b>Effective Teaching Practices</b>												
Wichita State (N = 259)	37.1	13.9	.87	16	24	40	48	60				
WSU Peers	38.0	12.4	.21	16	28	40	48	60	290	-1.0	.283	-.076
Carnegie Class	37.8	12.8	.07	16	28	40	48	60	261	-.7	.433	-.053
Large City, Public	38.0	13.2	.07	16	28	40	48	60	32,631	-1.0	.236	-.074
Top 50%	40.7	13.0	.04	20	32	40	52	60	259	-3.6	.000	-.278
Top 10%	42.6	13.6	.09	20	36	44	56	60	22,009	-5.5	.000	-.407
<b>Campus Environment</b>												
<b>Quality of Interactions</b>												
Wichita State (N = 204)	41.5	13.0	.91	15	34	42	52	60				

## Detailed Statistics: Seniors

	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Academic Challenge</b>												
<b>Higher-Order Learning</b>												
Wichita State (N = 715)	37.0	14.2	.53	15	25	40	45	60				
WSU Peers	38.3	13.6	.19	15	30	40	50	60	5,624	-1.3	.015	-.097
Carnegie Class	39.5	13.7	.07	20	30	40	50	60	740	-2.6	.000	-.188
Large City, Public	39.7	13.9	.06	15	30	40	50	60	49,540	-2.7	.000	-.196
Top 50%	41.8	13.5	.04	20	35	40	55	60	722	-4.9	.000	-.360
Top 10%	43.3	13.4	.07	20	35	40	55	60	35,610	-6.3	.000	-.467
<b>Reflective &amp; Integrative Learning</b>												
Wichita State (N = 738)	35.6	12.8	.47	14	26	34	46	57				
WSU Peers	35.7	12.2	.17	17	26	34	43	57	5,843	-.1	.860	-.007
Carnegie Class	37.6	12.5	.06	17	29	37	46	60	39,585	-2.0	.000	-.156
Large City, Public	37.4	12.8	.06	17	29	37	46	60	51,132	-1.8	.000	-.143
Top 50%	40.0	12.3	.04	20	31	40	49	60	122,374	-4.4	.000	-.357
Top 10%	42.0	12.2	.08	20	34	43	51	60	26,048	-6.4	.000	-.523
<b>Learning Strategies</b>												
Wichita State (N = 661)	37.9	15.1	.59	13	27	40	47	60				
WSU Peers	37.1	14.4	.22	13	27	40	47	60	5,122	.8	.168	.057
Carnegie Class	37.9	14.4	.08	13	27	40	47	60	34,476	.0	.940	.003
Large City, Public	38.6	14.5	.07	13	27	40	47	60	44,544	-.6	.257	-.044
Top 50%	40.7	14.4	.04	20	33	40	53	60	143,277	-2.8	.000	-.196
Top 10%	42.9	14.3	.07	20	33	40	60	60	42,181	-5.0	.000	-.347
<b>Quantitative Reasoning</b>												
Wichita State (N = 715)	28.2	15.6	.58	0	20	27	40	60				
WSU Peers	31.8	16.0	.23	7	20	33	40	60	5,586	-3.6	.000	-.228
Carnegie Class	30.3	16.2	.08	0	20	27	40	60	38,099	-2.1	.001	-.131
Large City, Public	29.9	16.3	.07	0	20	27	40	60	737	-1.7	.004	-.104
Top 50%	31.1	16.2	.04	0	20	33	40	60	180,556	-3.0	.000	-.184
Top 10%	33.0	15.9	.08	7	20	33	40	60	40,425	-4.8	.000	-.303
<b>Learning with Peers</b>												
<b>Collaborative Learning</b>												
Wichita State (N = 751)	29.9	15.1	.55	5	20	30	40	55				
WSU Peers	35.6	14.1	.19	15	25	35	45	60	946	-5.7	.000	-.401
Carnegie Class	34.3	14.5	.07	10	25	35	45	60	40,584	-4.4	.000	-.301
Large City, Public	33.4	14.4	.06	10	25	35	45	60	52,404	-3.5	.000	-.240
Top 50%	35.8	13.8	.03	15	25	35	45	60	756	-5.9	.000	-.430
Top 10%	37.9	13.4	.07	15	30	40	50	60	777	-8.0	.000	-.595
<b>Discussions with Diverse Others</b>												
Wichita State (N = 668)	41.0	15.9	.62	15	30	40	60	60				
WSU Peers	40.5	15.3	.23	15	30	40	55	60	5,155	.5	.399	.035
Carnegie Class	40.2	15.7	.09	15	30	40	55	60	34,724	.8	.198	.050
Large City, Public	41.9	16.0	.08	15	30	40	60	60	44,810	-.9	.150	-.056
Top 50%	42.3	15.6	.04	15	30	40	60	60	181,300	-1.3	.033	-.083
Top 10%	44.3	15.3	.08	20	35	45	60	60	39,825	-3.2	.000	-.211

# NSSE 2017 Engagement Indicators

## Detailed Statistics

### Wichita State University

#### Detailed Statistics: Seniors

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Experiences with Faculty</b>												
<b>Student-Faculty Interaction</b>												
Wichita State (N = 722)	20.6	14.8	.55	0	10	20	30	50				
WSU Peers	24.0	15.4	.22	0	10	20	35	55	963	-3.4	.000	-.224
Carnegie Class	24.1	15.7	.08	0	10	20	35	55	753	-3.5	.000	-.223
Large City, Public	22.0	15.5	.07	0	10	20	30	55	50,007	-1.4	.018	-.089
Top 50%	29.2	15.7	.06	5	20	30	40	60	738	-8.6	.000	-.550
Top 10%	33.0	16.0	.15	10	20	30	45	60	835	-12.4	.000	-.779
<b>Effective Teaching Practices</b>												
Wichita State (N = 726)	37.5	14.5	.54	12	28	40	48	60				
WSU Peers	38.2	13.0	.19	16	28	40	48	60	906	-.7	.189	-.056
Carnegie Class	38.9	13.5	.07	16	32	40	48	60	749	-1.5	.006	-.111
Large City, Public	38.6	13.9	.06	16	28	40	48	60	50,039	-1.2	.025	-.084
Top 50%	41.8	13.5	.04	20	32	40	52	60	734	-4.3	.000	-.320
Top 10%	43.8	13.4	.09	20	36	44	56	60	770	-6.4	.000	-.474
<b>Campus Environment</b>												
<b>Quality of Interactions</b>												
Wichita State (N = 610)	41.0	12.7	.52	16	32	43	50	60				
WSU Peers	41.4	11.8	.18	18	34	42	50	60	766	-.4	.441	-.035
Carnegie Class	41.3	11.9	.07	20	34	42	50	60	629	-.3	.538	-.027
Large City, Public	40.3	12.7	.06	18	32	42	50	60	41,729	.6	.241	.048
Top 50%	44.8	11.6	.04	23	38	46	54	60	615	-3.8	.000	-.330
Top 10%	46.9	12.1	.07	23	40	50	58	60	27,651	-5.9	.000	-.490
<b>Supportive Environment</b>												
Wichita State (N = 606)	29.5	13.7	.56	8	20	28	40	55				
WSU Peers	32.8	13.4	.21	10	23	33	40	58	4,885	-3.3	.000	-.245
Carnegie Class	32.3	13.8	.08	10	23	33	40	58	32,707	-2.8	.000	-.205
Large City, Public	32.1	14.3	.07	9	23	33	40	60	42,168	-2.6	.000	-.179
Top 50%	34.8	13.7	.04	13	25	35	45	60	117,700	-5.2	.000	-.383
Top 10%	37.2	13.6	.09	13	28	38	48	60	21,774	-7.7	.000	-.562