NSSE 2017
Engagement Indicators
Wichita State University

About Your *Engagement Indicators* Report

Report Sections

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

Rocconi, L., & Gonyea, R. M. (2015, May). *Contextualizing student engagement effect sizes: An empirical analysis.* Paper presented at the Association for Institutional Research Annual Forum, Denver, CO.

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 engagem
The ten indicators are organized within four broad themes: Academic Challenge, Learning with Peers, Experiences with Faculty, a
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

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
Academic Challenge	Higher-Order Learning			
	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
Academic Challenge	Higher-Order Learning			
	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 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

Engagement Indicator	Wichita State Mean	WSU Peers Mean	Effect size	Carnegie Class Mean	Effect size	Large City, Public 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	35.1**	-.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

Score Distributions

Academic Challeng6 11.52 0.96 2.96 1.68 re f 0.477 0Ait-y61277 rg 0 0 m 49.8 0 l 49.8 -6.6
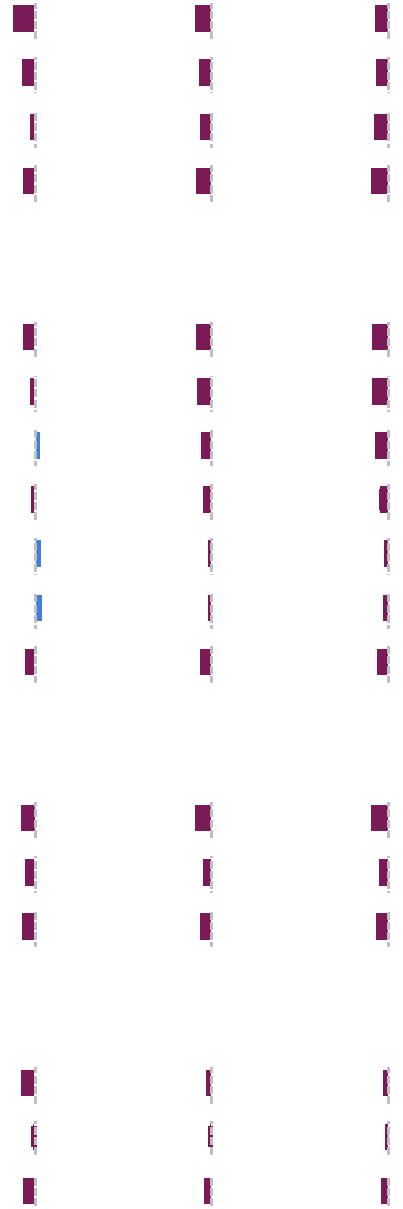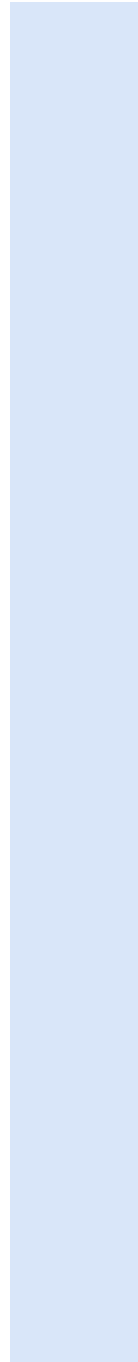
NSSE 2017 Engagement Indicators

Academic Challenge
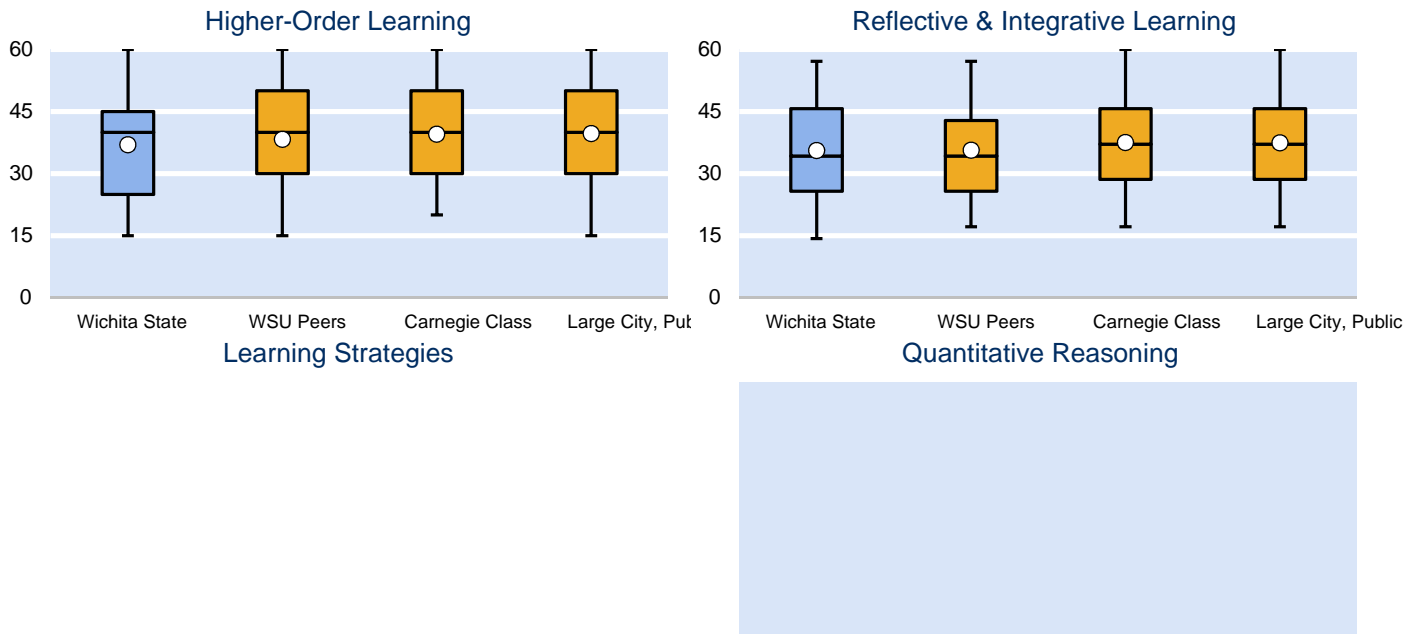## Wichita State University

Academic Challenge: Seniors

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

| | Wichita State | *Your seniors compared with* | | | | | |
| | | WSU Peers | | Carnegie Class | | Large City, Public | |
Engagement Indicator	Mean	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 sizes before rounding; $p < .05$, $**p < .01$, $***p < .001$ (2-tailed).

Score Distributions

Higher-Order Learning

Reflective & Integrative Learning

Learning Strategies

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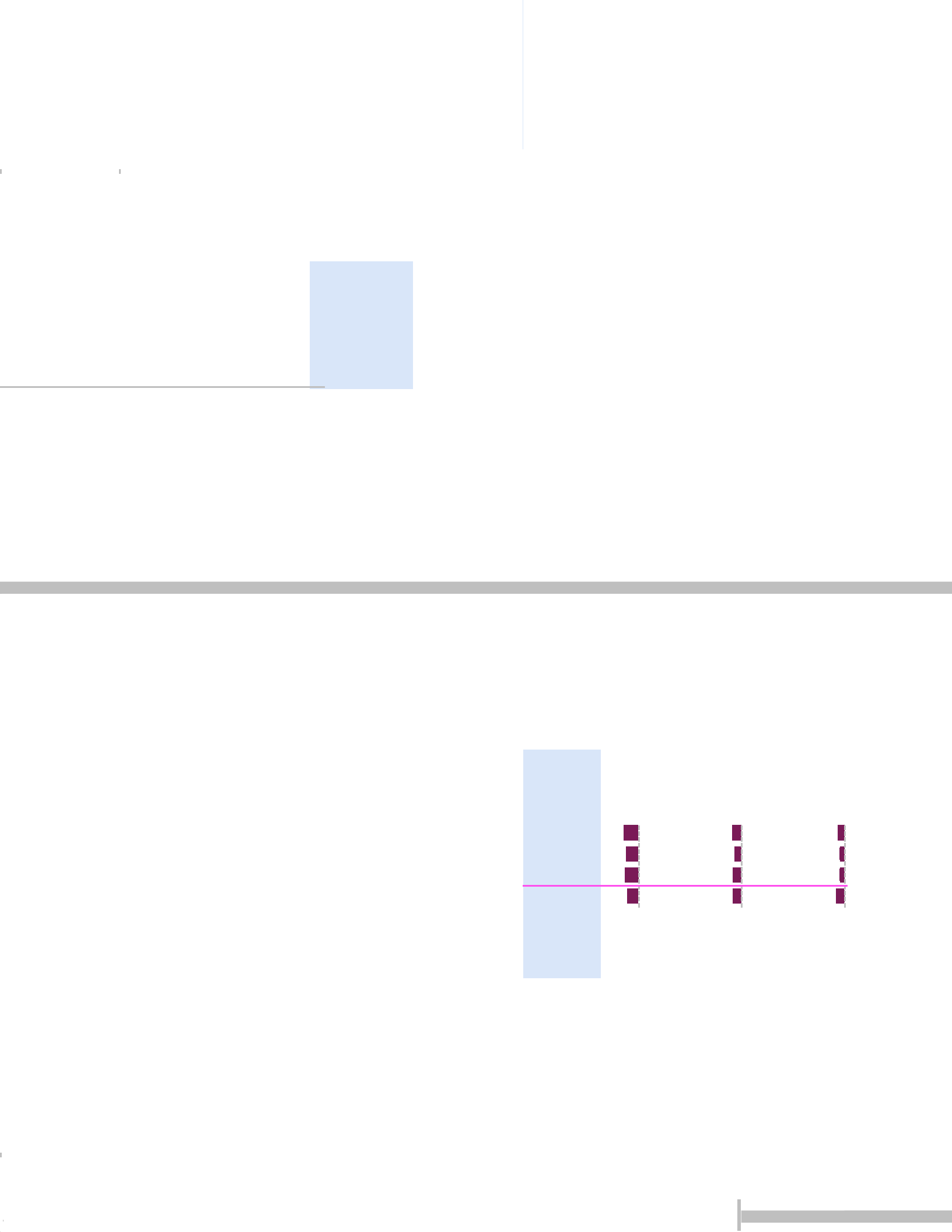
Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.
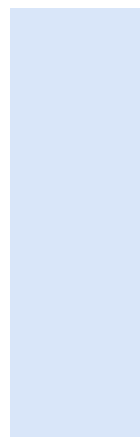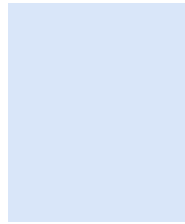
Academic Challenge: Seniors (continued)

Performance[a] 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 between your seniors and

Higher-Order Learning	Wichita State	WSU Peers	Carnegie Class	Large City, Public
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	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(ohiat)9(e)]TJ0.0060		

Reflective & Integrative Learning

2a.	63	-7	-7	-5
2b.	52			-7
	44			-6
2d.	62	+2	-2	-2
	70	+5		
2f.	68			
2g.	80			

Learning Strategies

9a.	74			
9b.	64			
9c.	63			

Quantitative Reasoning

	54			
	39			
6c.	38			

Experiences with Faculty: First-year students

Mean Comparisons

Engagement Indicator
Student-Faculty Interaction   **   **   *
Effective Teaching Practices

Score Distributions

Performance[a] on Indicator Items

Student-Faculty Interaction

	%
3a. Talked about career plans with a faculty member	30
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	15
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	17
3d. Discussed your academic performance with a faculty member	23

Effective Teaching Practices

	%
5a. Clearly explained course goals and requirements	76
5b. Taught course sessions in an organized way	72
5c. Used examples or illustrations to explain difficult points	69
5d. Provided feedback on a draft or work in progress	57

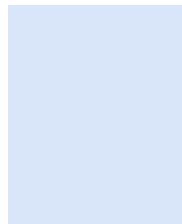# Experiences with Faculty: Seniors

Mean Comparisons

Engagement Indicator
Student-Faculty Interaction   ***   ***   *
Effective Teaching Practices   **   *

Score Distributions

Performance on Indicator Items

Student-Faculty Interaction

		%
3a.	Talked about career plans with a faculty member	36
3b.	Worked w/faculty on activities other than coursework (committees, student groups, etc.)	20
3c.	Discussed course topics, ideas, or concepts with a faculty member outside of class	25
3d.	Discussed your academic performance with a faculty member	28

Effective Teaching Practices

		%
5a.	Clearly explained course goals and requirements	76
5b.	Taught course sessions in an organized way	77
5c.	Used examples or illustrations to explain difficult points	74

5d. Provi2(e1)-4(oseedb(u)-1(kother -9((t)-eifm [(Sft-4(e]TJ s)-4ty Int8 224.64 22g(t)-eif9(s)]TJ 0 g -24 0 edemi)5(Tc 0.0011 Tf -0.047 7.56 2261b)6(.378189(rov)5(ih)6(t)
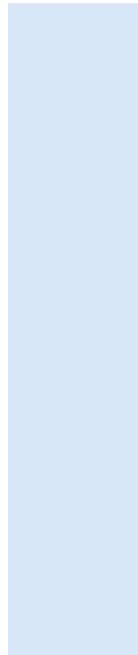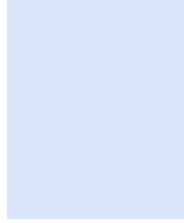
Campus Environment: Seniors

Mean Comparisons

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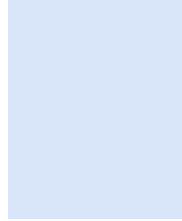
Score Distributions

Performance on Indicator Items

Quality of Interactions

		%
13a.	Students	50
13b.	Academic advisors	45
13c.	Faculty	51
13d.	Student services staff (career services, student activities, housing, etc.)	41
13e.	Other administrative staff and offices (registrar, financial aid, etc.)	42

Supportive Environment

14b.	Providing support to help students succeed academically	59
14c.)96J 41.504514cnt		
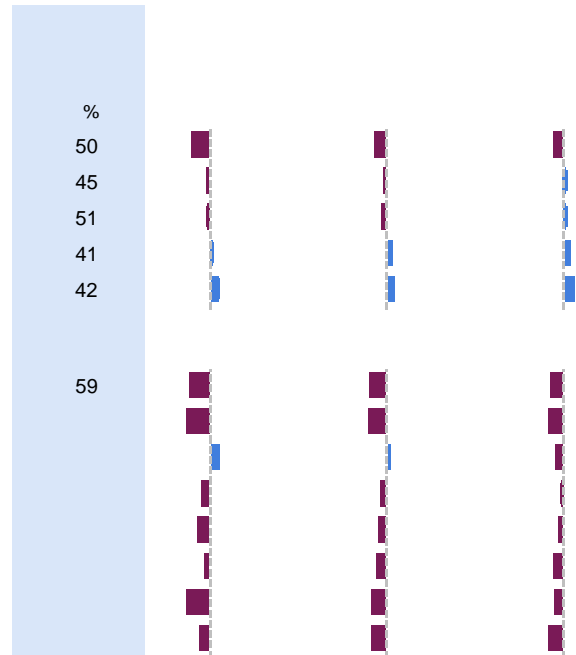
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Comparisons with Top 50% and Top 10% Institutions

First-Year Students

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Detailed Statistics: First-year students

	Mean	SD[b]	SEM[c]	5th	25th	50th	75th	95th	Deg. of freedom[e]	Mean diff.	Sig.[f]	Effect size[g]

Academic Challenge

Higher-Order Learning

	Mean	SD	SEM	5th	25th	50th	75th	95th	Deg. of freedom	Mean diff.	Sig.	Effect size
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

Reflective & Integrative Learning

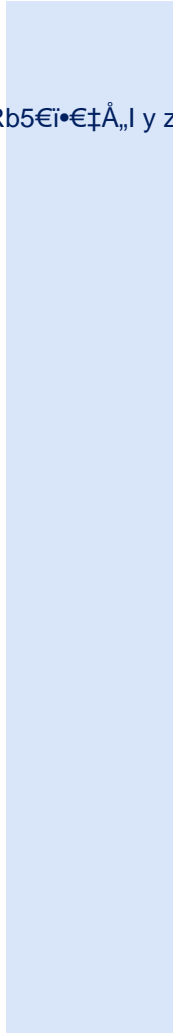|	Mean	SD	SEM	5th	25th	50th	75th	95th	Deg. of freedom	Mean diff.	Sig.	Effect size
Wichita State (N = 265)	32.6	11.6	.71	14	23	33	40	54				
WSU Peers	33.2	11.3	.19	17	26	31	40	54	3,784	-.6	.423	-.051
Carnegie Class	34.8	11.8	.06	17	26	34	43	57	34,806	-2.2	.002	-.190
Large City, Public	35.1	12.0	.07	17	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

Learning Strategies

	Mean	SD	SEM	5th	25th	50th	75th	95th	Deg. of freedom	Mean diff.	Sig.	Effect size
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

Quantitative Reasoning

	Mean	SD	SEM	5th	25th	50th	75th	95th	Deg. of freedom	Mean diff.	Sig.	Effect size
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

Learning with Peers

NSSE 2017 Engagement Indicators
Detailed Statistics[a]
Wichita State University

Detailed Statistics: First-year students

	Mean statistics			Percentile[d] scores					Comparison results			
	Mean	*SD[b]*	*SEM[c]*	*5th*	*25th*	*50th*	*75th*	*95th*	*Deg. of freedom[e]*	*Mean diff.*	*Sig.[f]*	*Effect size[g]*
Experiences with Faculty												
Student-Faculty Interaction												
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
Effective Teaching Practices												
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
Campus Environment												
Quality of Interactions												
Wichita State (N = 204)	41.5	13.0	.91	15	34	42	52	60				

Detailed Statistics: Seniors

	Mean	SD[b]	SEM[c]	5th	25th	50th	75th	95th	Deg. of freedom[e]	Mean diff.	Sig.[f]	Effect size[g]
Academic Challenge												
Higher-Order Learning												
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
Reflective & Integrative Learning												
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
Learning Strategies												
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
Quantitative Reasoning												
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
Learning with Peers												
Collaborative Learning												
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
Discussions with Diverse Others												
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: Seniors

	Mean statistics			Percentile[d] scores					Comparison results			
	Mean	SD[b]	SEM[c]	5th	25th	50th	75th	95th	Deg. of freedom[e]	Mean diff.	Sig.[f]	Effect size[g]
Experiences with Faculty												
Student-Faculty Interaction												
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
Effective Teaching Practices												
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
Campus Environment												
Quality of Interactions												
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
Supportive Environment												
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