
Angelo State University

NSSE 2019 Major Field Report, Part II

Comparisons to Other Institutions

Phys Sci, Math, CS

*Comparing your students majoring in the fields shown below to those
in the same fields at your comparison group institutions*

The Major Field Report group 'Phys Sci, Math, CS' includes the following majors: Astronomy; Atmospheric science (including meteorology); Chemistry; Computer science; Earth science (including geology); Mathematics; Network security and systems; Other computer science and technology; Other physical sciences; Physical sciences (general); Physics; Statistics.

Note:

The Major Field Report was formatted for printing. When viewing on screen in Excel, some content may appear truncated or oddly formatted. This is normal. Increasing the zoom level

About Your Major Field Report, Part II

NSSE data serve to identify institutional strengths and weaknesses in reference to selected comparison institutions, yet institution-level comparisons may not capture important variation in student engagement that can be found within key subpopulations such as major. This report displays selected results for students at your institution and at your selected comparison institutions in the major category: Phys Sci, Math, CS.

NSSE results included in MFR, Part II

- Engagement Indicators
- High-Impact Practices
- Frequencies and Statistical Comparisons
- Respondent Profile

Related-Major Groups

Self-reported first and second (if applicable) majors were identified from the survey. Your institution had the option to customize how these majors were grouped, using up to ten related-major groups. Institutions choosing not to customize their major categories receive NSSE's ten default groups. The majors used in this report are listed on the cover page of this report.

Sample

This report is based on information from all randomly selected or census-administered students in the indicated group of majors for both your institution and your comparison institutions. Targeted and locally administered oversamples and other non-randomly selected students are not included. Report Sample (if applicable) respondents are also excluded.

Class

Results are presented separately by institution-reported class level. Keep in mind that majors are student-reported. First-year students may report *intended* majors that have not yet been *declared*. Also, much of the first-year experience may take place outside of the major field. For these reasons, first-year results should be interpreted with caution.

Technical Requirements

Frequencies will be reported for related-major groups that have at least 5 respondents, but NSSE requires a group to have at least 20 respondents for statistical comparisons (e.g., means and t-tests). Comparison groups must contain at least 20 respondents in the major category, or they remain blank. Although 20 is a minimum requirement for all other statistics (Engagement Indicators, means, etc.), keep in mind that any statistical result requires a sufficient number of respondents per group to produce a reliable estimate. Due to the disaggregation of results by student-reported major, *Major Field Report* results are unweighted.





Report Sections (Those marked with an asterisk are included if at least one related-major group includes 20 or more respondents.)

Engagement Indicators*	Results on NSSE's ten Engagement Indicators (EIs) organized into four themes. See your <i>Engagement Indicators</i> report for more details.
High-Impact Practices*	Results on student participation in six High-Impact Practices (HIPs). See your <i>High-Impact Practices</i> report for more details.
Frequencies and Statistical Comparisons*	Response frequencies and statistical comparisons (including tests of significance and effect sizes) for all survey items except the demographics for your institution and your three core comparison groups.
Respondent Profile	Response frequencies for all demographic questions for your institution and your three core comparison groups.

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 themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores^a for your students in this related-major category with students in your comparison groups within the same category.

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 in Phys Sci, Math, CS

Seniors in Phys Sci, Math, CS

Theme	Engagement Indicator	Your first-year students compared with			Your seniors compared with		
		Southwest Public	Carnegie Class	SACSCOC Peers	Southwest Public	Carnegie Class	SACSCOC Peers
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	Quality of Interactions	--	--	--	--	--	--



NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Phys Sci, Math, CS

Angelo State University

First-year students^a in Phys Sci, Math, CS

	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
Academic Challenge												
Higher-Order Learning												
ASU (N = 28)	42.0	12.6	2.38	15	40	40	50	60				
Southwest Public	37.6	13.7	.43	15	30	40	45	60	1,061	4.4		.320
Carnegie Class	38.5	13.0	.25	15	30	40	45	60	2,832	3.5		.266
SACSCOC Peers	38.7	14.2	1.15	15	30	40	50	60	180	3.3		.233
Reflective & Integrative Learning												
ASU (N = 29)	33.3	9.8	1.81	14	31	34	37	46				
Southwest Public	33.4	12.4	.38	14	26	34	40	54	31	-.1		-.005
Carnegie Class	34.2	11.7	.22	17	26	34	43	57	2,853	-.9		-.073
SACSCOC Peers	35.0	12.6	1.01	14	29	37	43	57	182	-1.6		-.133
Learning Strategies												
ASU (N = 28)	39.8	14.9	2.82	20	27	40	53	60				
Southwest Public	35.6	14.2	.44	13	27	33	47	60	1,062	4.1		.290
Carnegie Class	37.7	13.6	.26	13	27	40	47	60	2,830	2.1		.153
SACSCOC Peers	37.5	14.5	1.16	13	27	40	47	60	182	2.2		.154
Quantitative Reasoning												
ASU (N = 28)	33.3	14.9	2.81	7	20	33	40	60				
Southwest Public	29.0	15.3	.47	7	20	27	40	60	1,064	4.3		.283
Carnegie Class	29.9	15.1	.29	7	20	27	40	60	2,822	3.4		.224
SACSCOC Peers	29.5	15.8	1.27	7	20	27	40	60	182	3.8		.242
Learning with Peers												
Collaborative Learning												
ASU (N = 29)	28.3	13.0	2.42	5	20	30	35	50				
Southwest Public	32.7	14.0	.43	10	20	35	40	60	1,078	-4.4		-.316
Carnegie Class	30.1	15.2	.29	5	20	30	40	55	2,843	-1.9		-.123
SACSCOC Peers	32.9	14.6	1.18	5	25	35	40	60	181	-4.6		-.319
Discussions with Diverse Others												
ASU (N = 27)	36.9	18.5	3.56	0	25	40	50	60				
Southwest Public	40.2	16.2	.50	10	30	40	55	60	1,059	-3.4		-.209
Carnegie Class	38.2	16.1	.30	10	25	40	50	60	2,822	-1.4		-.086

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Phys Sci, Math, CS

Angelo State University

First-year students^a in Phys Sci, Math, CS

	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
SACSCOC Peers	38.7	16.7	1.35	0	30	40	55	60	179	-1.8		-.109
Experiences with Faculty												
Student-Faculty Interaction												
ASU (N = 28)	21.3	14.4	2.73	5	8	23	30	45				
Southwest Public	19.6	15.0	.47	0	10	15	30	45	1,060	1.7		.111
Carnegie Class	21.7	14.7	.28	0	10	20	30	50	2,822	-.5		-.032
SACSCOC Peers	22.3	16.5	1.33	0	10	20	35	55	181	-1.1		-.066
Effective Teaching Practices												
ASU (N = 29)	44.3	13.8	2.56	20	32	48	60	60				
Southwest Public	37.4	13.5	.42	16	28	36	48	60	1,077	6.9	**	.509
Carnegie Class	40.0	12.9	.24	20	32	40	48	60	2,852	4.2		.327
SACSCOC Peers	38.8	14.3	1.14	12	28	40	52	60	183	5.4		.383
Campus Environment												
Quality of Interactions												
ASU (N = 27)	43.3	12.3	2.37	18	34	46	48	60				
Southwest Public	42.1	12.3	.39	18	35	44	50	60	1,000	1.3		.103
Carnegie Class	43.8	12.0	.23	20	38	46	52	60	2,667	-.5		-.038
SACSCOC Peers	42.5	13.2	1.09	18	35	44	54	60	171	.8		.059
Supportive Environment												
ASU (N = 29)	35.9	14.1	2.61	18	25	40	43	60				
Southwest Public	36.4	13.5	.42	15	28	38	45	60	1,064	-.5		-.037
Carnegie Class	36.3	13.2	.25	15	28	38	45	60	2,841	-.3		-.025
SACSCOC Peers	36.5	13.6	1.10	15	28	38	48	60	181	-.6		-.043

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Phys Sci, Math, CS

Angelo State University

First-year students^a in Phys Sci, Math, CS

Mean statistics			Percentile ^d scores					Comparison results			
<i>Mean</i>	<i>SD^b</i>	<i>SEM^c</i>	<i>5th</i>	<i>25th</i>	<i>50th</i>	<i>75th</i>	<i>95th</i>	<i>Deg. of freedom^e</i>	<i>Mean diff.</i>	<i>Sig.^f</i>	<i>Effect size^g</i>

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

	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
Academic Challenge												
Higher-Order Learning												
ASU (N = 33)	38.0	13.8	2.40	15	25	40	45	60				
Southwest Public	37.5	14.3	.37	15	30	40	45	60	1,516	.6		.041
Carnegie Class	39.0	14.0	.25	15	30	40	50	60	3,304	-.9		-.066
SACSCOC Peers	40.6	14.7	1.02	15	30	40	50	60	239	-2.6		-.178
Reflective & Integrative Learning												
ASU (N = 34)	31.6	11.7	2.01	11	23	33	40	51				
Southwest Public	32.7	12.4	.32	14	23	34	40	54	1,535	-1.2		-.093
Carnegie Class	34.3	12.3	.21	14	26	34	43	54	3,330	-2.7		-.218
SACSCOC Peers	34.5	12.1	.83	14	26	34	43	54	242	-2.9		-.245
Learning Strategies												
ASU (N = 33)	34.7	13.9	2.42	20	20	33	47	60				
Southwest Public	36.0	14.9	.39	13	27	33	47	60	1,514	-1.3		-.085
Carnegie Class	37.0	14.9	.26	13	27	40	47	60	3,308	-2.2		-.149
SACSCOC Peers	37.8	15.3	1.07	13	27	40	53	60	237	-3.1		-.204
Quantitative Reasoning												
ASU (N = 33)	36.0	15.9	2.77	13	27	40	47	60				
Southwest Public	31.1	16.2	.42	7	20	33	40	60	1,507	4.8		.298
Carnegie Class	32.9	16.4	.29	7	20	33	47	60	3,300	3.0		.185
SACSCOC Peers	34.0	15.8	1.10	7	20	33	40	60	236	2.0		.127
Learning with Peers												
Collaborative Learning												
ASU (N = 34)	36.2	14.5	2.49	15	25	35	50	60				
Southwest Public	34.3	15.2	.39	10	25	35	45	60	1,529	1.9		.123
Carnegie Class	33.7	15.4	.27	5	25	35	45	60	3,317	2.5		.163
SACSCOC Peers	37.1	14.7	1.02	15	25	40	50	60	240	-1.0		-.066
Discussions with Diverse Others												
ASU (N = 32)	41.6	16.0	2.83	10	30	43	58	60				
Southwest Public	39.5	17.1	.44	5	25	40	55	60	1,516	2.1		.120
Carnegie Class	39.0	16.6	.29	10	25	40	55	60	3,291	2.5		.152

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

	Mean statistics			Percentile ^d scores					Comparison results			Effect size ^g
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	
SACSCOC Peers	40.7	17.8	1.24	5	30	40	60	60	236	.8		.047
Experiences with Faculty												
Student-Faculty Interaction												
ASU (N = 33)	29.1	13.7	2.39	10	20	25	35	55				
Southwest Public	22.8	16.5	.43	0	10	20	35	60	1,525	6.3	*	.383
Carnegie Class	25.9	16.7	.29	0	15	25	40	60	3,298	3.2		.194
SACSCOC Peers	29.7	17.5	1.22	0	15	30	40	60	237	-.6		-.036
Effective Teaching Practices												
ASU (N = 34)	42.9	12.1	2.08	24	36	42	52	60				
Southwest Public	37.0	13.8	.36	12	28	36	48	60	1,528	6.0	*	.432
Carnegie Class	39.2	13.6	.24	16	32	40	48	60	3,329	3.8		.277
SACSCOC Peers	40.4	14.1	.97	16	32	40	52	60	241	2.5		.184
Campus Environment												
Quality of Interactions												
ASU (N = 33)	45.0	11.1	1.92	20	40	48	54	60				
Southwest Public	41.7	12.5	.33	18	34	43	50	60	1,438	3.3		.266
Carnegie Class	42.8	12.1	.22	20	36	44	52	60	3,153	2.3		.190
SACSCOC Peers	43.4	12.4	.88	20	36	44	54	60	229	1.7		.139
Supportive Environment												
ASU (N = 33)	37.2	13.3	2.31	15	28	40	45	60				
Southwest Public	31.0	14.1	.37	8	20	30	40	58	1,523	6.2	*	.442
Carnegie Class	31.6	13.8	.24	10	23	33	40	58	3,314	5.6	*	.407
SACSCOC Peers	32.9	14.7	1.02	10	23	33	43	58	236	4.3		.300

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Phys Sci, Math, CS

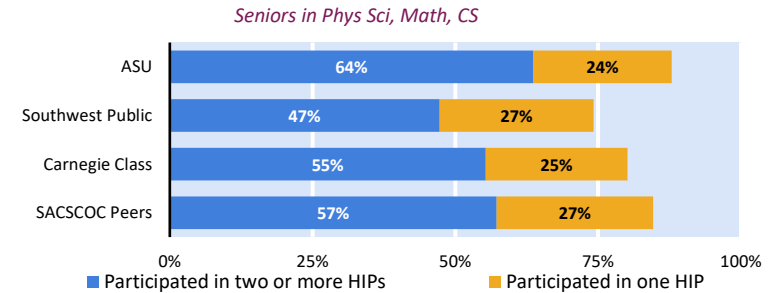
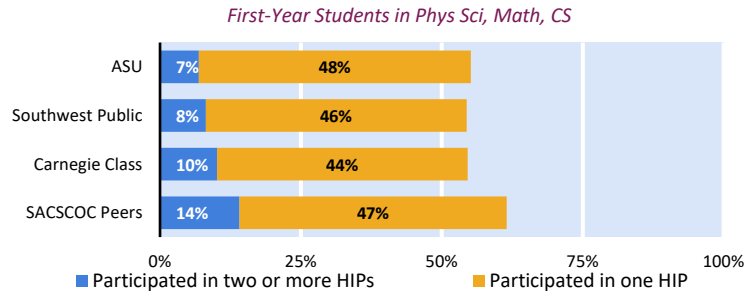
Angelo State University

Seniors^a in Phys Sci, Math, CS

Mean statistics			Percentile ^d scores					Comparison results			
<i>Mean</i>	<i>SD^b</i>	<i>SEM^c</i>	<i>5th</i>	<i>25th</i>	<i>50th</i>	<i>75th</i>	<i>95th</i>	<i>Deg. of freedom^e</i>	<i>Mean diff.</i>	<i>Sig.^f</i>	<i>Effect size^g</i>

Overall HIP Participation^{a,h}

The figures below display the percentage of students who participated in High-Impact Practices. Both figures include participation in service-learning, a learning community, and research with faculty. The senior figure also includes participation in an internship or field experience, study abroad, and culminating senior experience. The first segment in each bar shows the percentage who participated in at least two HIPs, and the full bar (both colors) represents the percentage who participated in at least one.

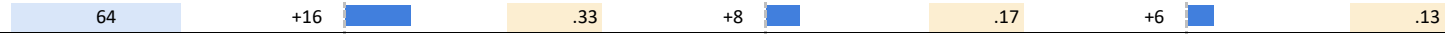


Statistical Comparisons

The table below displays the percentage of your students who participated in a given High-Impact Practice, including the percentage who participated overall (at least one, two or more). It also graphs the difference, in percentage points, between your students and those of your comparison groups. Blue bars indicate how much higher your institution's percentage is compared to the comparison group. Dark red bars indicate how much lower your institution's percentage is compared to the comparison group.

	<i>Your students' participation compared with:</i>							
	ASU	Southwest Public		Carnegie Class		SACSCOC Peers		
	%	Difference ⁱ	ES ^j	Difference ⁱ	ES ^j	Difference ⁱ	ES ^j	
<i>First-Year Students in Phys Sci, Math, CS</i>								
12. Service-Learning	48	+1	.02	+0	.00	-5	-.10	
11c. Learning Community	4	-8	-.33	-9	-.35	-13	-.47	
11e. Research with Faculty	10	+6	.23	+5	.18	+1	.02	
Participated in at least one	55	+1	.02	+1	.01	-6	-.13	
Participated in two or more	7	-1	-.05	-3	-.12	-7	-.24	
<i>Seniors in Phys Sci, Math, CS</i>								
12. Service-Learning	36	-3	-.06	-11	-.23	-7	-.15	
11c. Learning Community	21	+3	.07	+1	.03	-8	-.18	
11e. Research with Faculty	55	+25	** .51	+20	* .40	+5	.10	
11a. Internship or Field Exp.	42	+7	.15	+3	.06	+3	.07	
11d. Study Abroad	12	+4	.12	+2	.05	-3	-.08	
11f. Culminating Senior Exp.	55	+20	* .40	+8	.17	+12	.24	
Participated in at least one	88	+14	.35	+8	.21	+3	.09	

Participated in two or more



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Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Effect size ⁿ			
														Effect size ⁿ	Mean	Effect size ⁿ	Mean		
1. During the current school year, about how often have you done the following?																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	1	3	70	7	119	4	7	4	2.8	2.7	.11	2.8	-.09	2.8	-.09	
		2	Sometimes	10	34	427	41	956	34	56	36								
		3	Often	13	45	346	33	1,041	37	49	31								
		4	Very often	5	17	209	20	718	25	44	28								
		Total		29	100	1,052	100	2,834	100	156	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	2	7	238	23	560	20	23	15	2.7	2.3 *	.33	2.4	.25	2.4	.29	
		2	Sometimes	9	31	388	37	998	35	76	49								
		3	Often	15	52	274	26	807	29	30	19								
		4	Very often	3	10	156	15	459	16	27	17								
		Total		29	100	1,056	100	2,824	100	156	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	2	7	70	7	112	4	4	3	3.1	3.0	.19	3.1	-.05	3.1	-.04	
		2	Often	4	14	155	15	289	10	13	8								
		3	Sometimes	12	41	587	56	1,517	54	97	62								
		4	Never	11	38	244	23	917	32	42	27								
		Total		29	100	1,056	100	2,835	100	156	100								
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	14	48	437	42	1,250	44	59	38	1.6	1.9	-.27	1.8	-.22	2.0	-.36	
		2	Sometimes	13	45	387	37	1,044	37	58	37								
		3	Often	1	3	158	15	360	13	24	15								
		4	Very often	1	3	69	7	180	6	14	9								
		Total		29	100	1,051	100	2,834	100	155	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	4	14	110	10	436	15	18	12	2.3	2.6	-.32	2.5	-.17	2.6	-.35	
		2	Sometimes	14	48	399	38	1,085	38	52	34								
		3	Often	9	31	350	33	877	31	52	34								
		4	Very often	2	7	195	19	443	16	32	21								
		Total		29	100	1,054	100	2,841	100	154	100								
f. Explained course material to one or more students	CLexplain	1	Never	2	7	48	5	287	10	9	6	2.6	2.8	-.27	2.7	-.09	2.8	-.27	
		2	Sometimes	14	48	329	31	920	32	46	29								
		3	Often	7	24	458	43	1,061	37	66	42								
		4	Very often	6	21	220	21	565	20	35	22								
		Total		29	100	1,055	100	2,833	100	156	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options		%		%		%		%								
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	6	21	181	17	611	22	29	19	2.3	2.5	-.21	2.4	-.06	2.5	-.19	
		2	Sometimes	12	41	358	34	1,000	35	49	31								
		3	Often	7	24	306	29	774	27	50	32								
		4	Very often	4	14	210	20	448	16	28	18								
		Total		29	100	1,055	100	2,833	100	156	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	3	10	95	9	387	14	18	12	2.4	2.6	-.19	2.5	-.07	2.6	-.19	
		2	Sometimes	14	48	407	39	1,038	37	54	35								
		3	Often	8	28	359	34	966	34	52	33								
		4	Very often	4	14	194	18	442	16	32	21								
		Total		29	100	1,055	100	2,833	100	156	100								
i. Given a course presentation	present	1	Never	7	24	310	29	650	23	37	24	2.2	2.0	.25	2.2	.03	2.2	.04	
		2	Sometimes	11	38	482	46	1,211	43	66	43								
		3	Often	8	28	182	17	689	24	33	21								
		4	Very often	3	10	78	7	283	10	18	12								
		Total		29	100	1,052	100	2,833	100	154	100								
2. During the current school year, about how often have you done the following?																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	5	17	139	13	286	10	23	15	2.4	2.5	-.05	2.5	-.14	2.5	-.14	
		2	Sometimes	9	31	437	42	1,135	40	51	33								
		3	Often	13	45	327	31	1,031	36	57	37								
		4	Very often	2	7	147	14	381	13	25	16								
		Total		29	100	1,050	100	2,833	100	156	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	6	21	168	16	377	13	17	11	2.3	2.4	-.13	2.5	-.20	2.6	-.33	
		2	Sometimes	12	41	431	41	1,174	41	58	37								
		3	Often	8	28	324	31	894	32	55	35								
		4	Very often	3	10	128	12	385	14	25	16								
		Total		29	100	1,051	100	2,830	100	155	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	4	14	194	19	455	16	30	19	2.3	2.4	-.07	2.4	-.09	2.5	-.13	
		2	Sometimes	13	45	382	36	1,113	39	52	33								
		3	Often	10	34	318	30	858	30	44	28								
		4	Very often	2	7	153	15	406	14	30	19								
		Total		29	100	1,047	100	2,832	100	156	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options		%		%		%		%								
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	1	3	63	6	155	5	6	4	2.7	2.8	-.04	2.8	-.07	2.9	-.23	
		2	Sometimes	9	31	331	32	854	30	40	26								
		3	Often	16	55	458	44	1,267	45	70	45								
		4	Very often	3	10	198	19	545	19	38	25								
		Total		29	100	1,050	100	2,821	100	154	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	1	3	45	4	111	4	5	3	2.8	2.9	-.07	2.9	-.09	2.9	-.15	
		2	Sometimes	7	24	281	27	750	27	39	25								
		3	Often	17	59	466	45	1,280	45	71	46								
		4	Very often	4	14	254	24	684	24	40	26								
		Total		29	100	1,046	100	2,825	100	155	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	0	0	48	5	89	3	7	4	3.1	2.8 *	.33	2.8	.31	2.8	.33	
		2	Sometimes	5	17	327	31	894	32	51	33								
		3	Often	17	59	458	44	1,254	44	64	41								
		4	Very often	7	24	215	21	587	21	34	22								
		Total		29	100	1,048	100	2,824	100	156	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	0	0	24	2	43	2	4	3	3.0	3.0	.06	3.0	-.02	3.0	.06	
		2	Sometimes	6	21	249	24	553	20	33	21								
		3	Often	15	54	486	47	1,447	51	79	51								
		4	Very often	7	25	286	27	780	28	40	26								
		Total		28	100	1,045	100	2,823	100	156	100								
3. During the current school year, about how often have you done the following?																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	5	18	286	27	600	21	40	26	2.4	2.1	.27	2.3	.13	2.3	.13	
		2	Sometimes	10	36	443	42	1,200	43	59	38								
		3	Often	10	36	201	19	670	24	33	21								
		4	Very often	3	11	116	11	351	12	24	15								
		Total		28	100	1,046	100	2,821	100	156	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	16	55	524	50	1,357	48	69	44	1.8	1.8	-.04	1.8	-.05	2.0	-.19	
		2	Sometimes	7	24	294	28	868	31	43	28								
		3	Often	3	10	151	14	398	14	26	17								
		4	Very often	3	10	79	8	207	7	18	12								
		Total		29	100	1,048	100	2,830	100	156	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options		%		%		%		%								
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	10	34	362	35	840	30	44	28	2.0	2.0	.05	2.1	-.06	2.2	-.12	
		2	Sometimes	11	38	412	39	1,137	40	60	38								
		3	Often	5	17	195	19	606	21	36	23								
		4	Very often	3	10	77	7	242	9	16	10								
		Total		29	100	1,046	100	2,825	100	156	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	11	38	319	30	653	23	42	27	2.0	2.0	.03	2.2	-.16	2.1	-.05	
		2	Sometimes	7	24	471	45	1,264	45	74	48								
		3	Often	10	34	188	18	651	23	23	15								
		4	Very often	1	3	70	7	256	9	16	10								
		Total		29	100	1,048	100	2,824	100	155	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	0	0	41	4	111	4	9	6	3.0	2.9	.13	2.9	.19	2.8	.21	
		2	Some	7	24	285	27	809	29	43	28								
		3	Quite a bit	15	52	470	45	1,302	46	70	45								
		4	Very much	7	24	253	24	608	21	34	22								
		Total		29	100	1,049	100	2,830	100	156	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	2	7	39	4	107	4	7	5	3.1	3.0	.13	3.0	.11	2.9	.15	
		2	Some	4	14	248	24	615	22	33	21								
		3	Quite a bit	12	43	472	45	1,334	47	76	49								
		4	Very much	10	36	288	28	771	27	39	25								
		Total		28	100	1,047	100	2,827	100	155	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	0	0	48	5	107	4	6	4	3.2	2.9	.33	2.9	.28	2.9	.31	
		2	Some	5	17	290	28	670	24	41	26								
		3	Quite a bit	14	48	436	42	1,304	46	68	44								
		4	Very much	10	34	276	26	742	26	41	26								
		Total		29	100	1,050	100	2,823	100	156	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	0	0	79	8	134	5	7	5	3.0	2.8	.27	2.9	.21	2.9	.18	
		2	Some	7	24	284	27	778	28	41	26								
		3	Quite a bit	14	48	449	43	1,256	44	69	45								
		4	Very much	8	28	231	22	661	23	38	25								
		Total		29	100	1,043	100	2,829	100	155	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options		%		%		%		%								
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	1	3	58	6	110	4	6	4	3.0	2.9	.22	2.9	.17	3.0	.10	
		2	Some	4	14	286	27	750	27	40	26								
		3	Quite a bit	17	59	454	43	1,288	46	65	42								
		4	Very much	7	24	248	24	682	24	45	29								
		Total		29	100	1,046	100	2,830	100	156	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	2	7	34	3	48	2	8	5	3.3	3.0	.30	3.1	.18	3.0	.26	
		2	Some	3	10	220	21	497	18	30	19								
		3	Quite a bit	9	31	473	45	1,292	46	64	41								
		4	Very much	15	52	320	31	989	35	53	34								
		Total		29	100	1,047	100	2,826	100	155	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	2	7	48	5	102	4	11	7	3.3	3.0	.31	3.1	.26	3.0	.29	
		2	Some	4	14	223	21	530	19	27	17								
		3	Quite a bit	7	24	448	43	1,268	45	67	43								
		4	Very much	16	55	330	31	918	33	51	33								
		Total		29	100	1,049	100	2,818	100	156	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	0	0	41	4	98	3	7	4	3.4	3.0 **	.51	3.1 *	.46	3.1 *	.48	
		2	Some	4	14	240	23	550	20	31	20								
		3	Quite a bit	8	28	426	41	1,211	43	65	42								
		4	Very much	17	59	341	33	961	34	53	34								
		Total		29	100	1,048	100	2,820	100	156	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	1	3	123	12	219	8	14	9	3.1	2.7 **	.49	2.9	.29	2.8	.32	
		2	Some	5	17	338	32	738	26	40	26								
		3	Quite a bit	12	41	351	33	1,052	37	58	37								
		4	Very much	11	38	237	23	811	29	44	28								
		Total		29	100	1,049	100	2,820	100	156	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	3	10	107	10	198	7	11	7	2.9	2.6	.33	2.9	.08	2.8	.19	
		2	Some	7	24	380	36	749	27	50	32								
		3	Quite a bit	8	28	359	34	1,131	40	59	38								
		4	Very much	11	38	203	19	744	26	35	23								
		Total		29	100	1,049	100	2,822	100	155	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options	Your first-year students compared with															
6. During the current school year, about how often have you done the following?																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	2	7	74	7	189	7	9	6	2.9	2.7	.16	2.8	.10	2.7	.13	
		2	Sometimes	7	24	359	34	858	30	59	38								
		3	Often	13	45	397	38	1,179	42	51	33								
		4	Very often	7	24	215	21	598	21	37	24								
		Total		29	100	1,045	100	2,824	100	156	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	1	4	241	23	575	20	36	23	2.8	2.3 *	.48	2.3 *	.45	2.3 *	.49	
		2	Sometimes	10	36	402	38	1,080	38	59	38								
		3	Often	12	43	269	26	810	29	41	26								
		4	Very often	5	18	136	13	348	12	20	13								
		Total		28	100	1,048	100	2,813	100	156	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	5	17	184	18	456	16	27	17	2.4	2.3	.04	2.4	-.01	2.4	-.02	
		2	Sometimes	10	34	434	42	1,155	41	61	39								
		3	Often	12	41	307	29	867	31	47	30								
		4	Very often	2	7	119	11	339	12	21	13								
		Total		29	100	1,044	100	2,817	100	156	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.)																			
a. Up to 5 pages	wrshortnum <i>(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	2	7	110	10	233	8	13	8	6.8	5.3	.30	6.1	.12	5.6	.21	
		1.5	1-2	7	24	223	21	585	21	41	26								
		4	3-5	11	38	390	37	896	32	51	33								
		8	6-10	2	7	204	19	609	22	30	19								
		13	11-15	3	10	66	6	282	10	10	6								
		18	16-20	1	3	25	2	99	4	4	3								
		23	More than 20	3	10	30	3	106	4	7	4								
Total		29	100	1,048	100	2,810	100	156	100										
b. Between 6 and 10 pages	wrmednum <i>(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	11	39	532	51	1,121	40	79	51	2.9	1.8	.33	2.1	.25	2.0	.22	
		1.5	1-2	9	32	281	27	1,013	36	47	30								
		4	3-5	4	14	147	14	435	15	16	10								
		8	6-10	2	7	60	6	153	5	8	5								
		13	11-15	1	4	19	2	53	2	1	1								
		18	16-20	0	0	3	0	14	0	3	2								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k									
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with									
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
		23	More than 20	1	4	6	1	19	1	2	1										
			Total	28	100	1,048	100	2,808	100	156	100										

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. 11 pages or more	wrlongnum	0	None	22	79	844	81	2,194	78	123	79	1.7	.8	.31	.9	.29	1.1	.15	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	2	7	111	11	407	14	19	12								
		4	3-5	2	7	48	5	100	4	4	3								
		8	6-10	0	0	24	2	46	2	4	3								
		13	11-15	1	4	13	1	40	1	1	1								
		18	16-20	0	0	1	0	8	0	2	1								
		23	More than 20	1	4	6	1	17	1	2	1								
		Total			28	100	1,047	100	2,812	100	155	100							
Estimated number of assigned pages of student writing.	wrpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									68.1	42.8	.36	47.0	.31	49.1	.19	

8. During the current school year, about how often have you had discussions with people from the following groups?

a. People of a race or ethnicity other than your own	DDrace	1	Never	3	11	63	6	177	6	14	9	2.8	3.1	-.32	3.0	-.15	3.0	-.17
		2	Sometimes	6	21	214	20	753	27	33	21							
		3	Often	12	43	304	29	905	32	50	32							
		4	Very often	7	25	465	44	986	35	59	38							
			Total	28	100	1,046	100	2,821	100	156	100							
b. People from an economic background other than your own	DDeconomic	1	Never	4	15	62	6	183	6	12	8	2.8	3.0	-.24	3.0	-.16	3.0	-.22
		2	Sometimes	6	22	230	22	686	24	28	18							
		3	Often	8	30	367	35	1,020	36	61	39							
		4	Very often	9	33	385	37	933	33	55	35							
			Total	27	100	1,044	100	2,822	100	156	100							
c. People with religious beliefs other than your own	DDreligion	1	Never	3	11	71	7	216	8	12	8	2.9	3.0	-.08	2.9	.04	2.9	.04
		2	Sometimes	6	21	249	24	784	28	46	30							
		3	Often	9	32	324	31	896	32	44	28							
		4	Very often	10	36	397	38	919	33	53	34							
			Total	28	100	1,041	100	2,815	100	155	100							
d. People with political views other than your own	DDpolitical	1	Never	5	18	81	8	251	9	16	10	2.8	2.9	-.10	2.8	-.05	2.8	-.05
		2	Sometimes	6	21	300	29	816	29	43	28							
		3	Often	7	25	322	31	903	32	47	30							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

Item wording or description	Variable name ^j	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k				
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with				
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	
									Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		4	Very often	10	36	340	33	851	30	49	32					
			Total	28	100	1,043	100	2,821	100	155	100					

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

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				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options	Your first-year students compared with															
9. During the current school year, about how often have you done the following?																			
a. Identified key information from reading assignments	LSreading	1	Never	1	4	38	4	58	2	7	4	3.1	2.9	.27	3.0	.12	2.9	.22	
		2	Sometimes	6	21	307	29	659	23	38	24								
		3	Often	11	39	467	45	1,377	49	76	49								
		4	Very often	10	36	231	22	728	26	35	22								
		Total		28	100	1,043	100	2,822	100	156	100								
b. Reviewed your notes after class	LSnotes	1	Never	2	7	66	6	165	6	11	7	3.0	2.8	.21	2.9	.15	2.9	.07	
		2	Sometimes	7	25	333	32	835	30	39	25								
		3	Often	8	29	370	36	1,029	36	55	35								
		4	Very often	11	39	273	26	791	28	51	33								
		Total		28	100	1,042	100	2,820	100	156	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	0	0	112	11	174	6	15	10	2.9	2.7	.23	2.8	.11	2.8	.10	
		2	Sometimes	12	43	340	33	874	31	42	27								
		3	Often	7	25	365	35	1,128	40	58	37								
		4	Very often	9	32	226	22	646	23	41	26								
		Total		28	100	1,043	100	2,822	100	156	100								
10. During the current school year, to what extent have your courses challenged you to do your best work?																			
challenge		1	Not at all	0	0	16	2	26	1	2	1	4.9	5.2	-.20	5.3	-.32	5.3	-.26	
		2		2	7	22	2	58	2	4	3								
		3		3	11	78	7	145	5	6	4								
		4		3	11	154	15	344	12	27	17								
		5		10	36	334	32	957	34	46	30								
		6		7	25	219	21	700	25	37	24								
		7	Very much	3	11	219	21	587	21	33	21								
		Total		28	100	1,042	100	2,817	100	155	100								
11. Which of the following have you done or do you plan to do before you graduate?^o																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		9	32	164	16	445	16	23	15	7%	8%	-.05	7%	.00	10%	-.09	
		Do not plan to do		0	0	50	5	216	8	9	6								
		Plan to do		17	61	741	71	1,958	69	108	70								
		Done or in progress		2	7	87	8	205	7	15	10								
		<i>(Means indicate the percentage who responded "Done or in</i>																	

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l progress.")	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k				
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with				
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	
									Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		Total		28	100	1,042	100	2,824	100	155	100					

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options	Your first-year students compared with															
b. Hold a formal leadership role in a student organization or group	leader <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	10	36	280	27	824	29	38	25	4%	11%	-.30	10%	-.25	16%	-.45	
			Do not plan to do	6	21	254	24	839	30	38	25								
			Plan to do	11	39	395	38	884	31	54	35								
			Done or in progress	1	4	115	11	274	10	25	16								
			Total	28	100	1,044	100	2,821	100	155	100								
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	10	36	340	33	977	35	48	31	4%	12%	-.33	13%	-.35	17%	-.47	
			Do not plan to do	7	25	271	26	809	29	33	21								
			Plan to do	10	36	304	29	680	24	47	31								
			Done or in progress	1	4	125	12	360	13	26	17								
			Total	28	100	1,040	100	2,826	100	154	100								
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	10	34	307	29	824	29	38	24	10%	2% *	.34	3% *	.32	3% *	.33	
			Do not plan to do	8	28	342	33	928	33	50	32								
			Plan to do	8	28	369	35	995	35	64	41								
			Done or in progress	3	10	26	2	77	3	4	3								
			Total	29	100	1,044	100	2,824	100	156	100								
e. Work with a faculty member on a research project	research <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	10	34	348	33	1,058	37	43	28	10%	4%	.23	6%	.18	10%	.02	
			Do not plan to do	5	17	186	18	555	20	24	15								
			Plan to do	11	38	464	44	1,052	37	74	47								
			Done or in progress	3	10	46	4	158	6	15	10								
			Total	29	100	1,044	100	2,823	100	156	100								
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	13	45	318	30	889	31	61	39	3%	2%	.10	2%	.11	3%	.01	
			Do not plan to do	2	7	98	9	289	10	13	8								
			Plan to do	13	45	607	58	1,599	57	76	49								
			Done or in progress	1	3	20	2	48	2	5	3								
			Total	29	100	1,043	100	2,825	100	155	100								
12. About how many of your courses at this institution have included a community-based project (service-learning)?																			
servcourse			1 None	15	52	546	53	1,456	52	72	47	1.6	1.6	.01	1.6	.00	1.6	-.07	
			2 Some	11	38	406	39	1,107	39	68	44								
			3 Most	3	10	65	6	193	7	13	8								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
		4	All	0	0	23	2	54	2	1	1								
			Total	29	100	1,040	100	2,810	100	154	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
13. Indicate the quality of your interactions with the following people at your institution.																			
a. Students	QIstudent	1	Poor	0	0	17	2	48	2	3	2	5.3	5.4	-.08	5.3	-.07	5.5	-.16	
		2		0	0	25	2	76	3	3	2								
		3		4	14	49	5	140	5	7	4								
		4		4	14	136	13	338	12	15	10								
		5		7	24	308	30	770	27	50	32								
		6		7	24	258	25	671	24	29	19								
		7	Excellent	6	21	244	23	649	23	47	30								
		—	Not applicable	1	3	7	1	131	5	2	1								
			Total	29	100	1,044	100	2,823	100	156	100								
b. Academic advisors	QIadvisor	1	Poor	0	0	32	3	75	3	6	4	5.6	5.3	.22	5.5	.11	5.2	.26	
		2		0	0	45	4	100	4	8	5								
		3		2	7	75	7	170	6	12	8								
		4		5	17	138	13	320	11	22	14								
		5		5	17	226	22	558	20	36	23								
		6		7	24	191	18	554	20	16	10								
		7	Excellent	10	34	310	30	977	35	53	34								
		—	Not applicable	0	0	24	2	70	2	3	2								
			Total	29	100	1,041	100	2,824	100	156	100								
c. Faculty	QIfaculty	1	Poor	0	0	21	2	36	1	3	2	5.8	5.3	.35	5.5	.18	5.3	.32	
		2		1	3	23	2	48	2	6	4								
		3		0	0	73	7	130	5	10	6								
		4		4	14	143	14	308	11	22	14								
		5		4	14	275	26	694	25	37	24								
		6		8	28	253	24	769	27	33	21								
		7	Excellent	10	34	237	23	796	28	42	27								
		—	Not applicable	2	7	16	2	37	1	3	2								
			Total	29	100	1,041	100	2,818	100	156	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	1	3	36	3	87	3	6	4	4.9	5.1	-.13	5.3	-.24	5.2	-.18	
		2		2	7	43	4	95	3	6	4								
		3		3	10	69	7	131	5	10	6								
		4		5	17	144	14	326	12	18	12								
		5		4	14	205	20	618	22	29	19								
		6		4	14	201	19	568	20	29	19								
		7	Excellent	7	24	219	21	662	23	39	25								
		—	Not applicable	3	10	123	12	337	12	19	12								
	Total			29	100	1,040	100	2,824	100	156	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	1	3	40	4	66	2	6	4	5.1	5.0	.03	5.3	-.15	5.2	-.05	
		2		1	3	45	4	99	4	9	6								
		3		3	10	72	7	171	6	9	6								
		4		5	17	161	15	329	12	17	11								
		5		6	21	217	21	629	22	34	22								
		6		2	7	198	19	592	21	25	16								
		7	Excellent	9	31	211	20	711	25	42	27								
		—	Not applicable	2	7	100	10	225	8	14	9								
	Total			29	100	1,044	100	2,822	100	156	100								
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	1	3	19	2	45	2	3	2	3.0	3.0	-.10	3.1	-.15	3.0	-.07	
		2	Some	8	28	231	22	553	20	35	22								
		3	Quite a bit	11	38	484	46	1,360	48	74	47								
		4	Very much	9	31	311	30	863	31	44	28								
			Total			29	100	1,045	100	2,821	100								156
b. Providing support to help students succeed academically	SEacademic	1	Very little	1	3	29	3	97	3	3	2	3.2	3.1	.11	3.1	.05	3.1	.11	
		2	Some	4	14	213	20	500	18	32	21								
		3	Quite a bit	13	45	443	43	1,151	41	69	44								
		4	Very much	11	38	357	34	1,070	38	52	33								
			Total			29	100	1,042	100	2,818	100								156
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	5	17	41	4	119	4	6	4	3.1	3.2	-.17	3.2	-.15	3.2	-.10	
		2	Some	2	7	155	15	431	15	25	16								
		3	Quite a bit	8	28	382	37	1,060	38	64	41								
		4	Very much	14	48	461	44	1,212	43	61	39								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		Total		29	100	1,039	100	2,822	100	156	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	5	17	120	12	330	12	15	10	2.6	2.8	-.18	2.8	-.18	2.7	-.14	
		2	Some	9	31	290	28	755	27	51	33								
		3	Quite a bit	8	28	341	33	978	35	52	33								
		4	Very much	7	24	288	28	750	27	38	24								
		Total		29	100	1,039	100	2,813	100	156	100								
e. Providing opportunities to be involved socially	SEsocial	1	Very little	1	3	58	6	193	7	8	5	2.8	3.0	-.16	2.9	-.11	2.9	-.10	
		2	Some	10	34	251	24	643	23	38	25								
		3	Quite a bit	11	38	390	38	1,155	41	66	43								
		4	Very much	7	24	336	32	820	29	41	27								
		Total		29	100	1,035	100	2,811	100	153	100								
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	2	7	71	7	168	6	9	6	3.1	2.9	.14	3.0	.13	2.9	.14	
		2	Some	5	17	240	23	632	22	36	23								
		3	Quite a bit	11	38	406	39	1,174	42	66	42								
		4	Very much	11	38	323	31	837	30	45	29								
		Total		29	100	1,040	100	2,811	100	156	100								
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	4	14	235	23	562	20	33	21	2.5	2.3	.21	2.4	.15	2.4	.13	
		2	Some	11	38	380	37	1,050	37	53	34								
		3	Quite a bit	9	31	287	28	786	28	45	29								
		4	Very much	5	17	137	13	411	15	24	15								
		Total		29	100	1,039	100	2,809	100	155	100								
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	4	14	108	10	376	13	15	10	2.8	2.8	-.04	2.7	.09	2.9	-.07	
		2	Some	7	24	251	24	733	26	35	23								
		3	Quite a bit	9	31	388	37	1,034	37	60	39								
		4	Very much	9	31	293	28	665	24	44	29								
		Total		29	100	1,040	100	2,808	100	154	100								
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	6	21	187	18	510	18	22	14	2.3	2.5	-.11	2.5	-.12	2.5	-.18	
		2	Some	11	38	369	36	963	34	58	37								
		3	Quite a bit	8	28	308	30	885	31	49	31								
		4	Very much	4	14	173	17	456	16	27	17								
		Total		29	100	1,037	100	2,814	100	156	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
				<i>Your first-year students compared with</i>															
15. About how many hours do you spend in a typical 7-day week doing the following?																			
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmprephrs	0	0 hrs	0	0	5	0	16	1	1	1	13.7	14.8	-.13	14.6	-.11	14.6	-.11	
	(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	3	10	138	13	353	13	24	15								
		8	6-10 hrs	10	34	229	22	619	22	32	21								
		13	11-15 hrs	6	21	220	21	648	23	33	21								
		18	16-20 hrs	3	10	207	20	558	20	31	20								
		23	21-25 hrs	5	17	119	11	316	11	16	10								
		28	26-30 hrs	1	3	54	5	145	5	5	3								
		33	More than 30 hrs	1	3	70	7	162	6	14	9								
			Total	29	100	1,042	100	2,817	100	156	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	13	45	362	35	1,100	39	49	32	3.4	5.2 *	-.27	5.0	-.24	5.7 *	-.35	
	(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	9	31	347	33	839	30	49	32								
		8	6-10 hrs	5	17	153	15	408	15	30	19								
		13	11-15 hrs	1	3	85	8	208	7	9	6								
		18	16-20 hrs	1	3	49	5	123	4	9	6								
		23	21-25 hrs	0	0	19	2	65	2	4	3								
		28	26-30 hrs	0	0	12	1	34	1	2	1								
		33	More than 30 hrs	0	0	10	1	31	1	2	1								
			Total	29	100	1,037	100	2,808	100	154	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	24	83	835	80	2,212	79	128	83	2.2	2.7	-.07	2.4	-.04	2.7	-.07	
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	2	7	30	3	116	4	5	3								
		8	6-10 hrs	0	0	40	4	186	7	1	1								
		13	11-15 hrs	1	3	47	5	141	5	4	3								
		18	16-20 hrs	1	3	61	6	104	4	9	6								
		23	21-25 hrs	0	0	14	1	27	1	4	3								
		28	26-30 hrs	1	3	7	1	16	1	1	1								
		33	More than 30 hrs	0	0	4	0	8	0	2	1								
			Total	29	100	1,038	100	2,810	100	154	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	22	76	728	70	1,876	67	104	67	4.9	5.2	-.03	6.6	-.16	6.8	-.18	
	<i>(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	0	0	40	4	97	3	6	4								
		8	6-10 hrs	0	0	53	5	115	4	5	3								
		13	11-15 hrs	3	10	47	5	152	5	5	3								
		18	16-20 hrs	1	3	65	6	144	5	7	4								
		23	21-25 hrs	1	3	41	4	119	4	9	6								
		28	26-30 hrs	1	3	30	3	74	3	10	6								
		33	More than 30 hrs	1	3	39	4	240	9	10	6								
		Total			29	100	1,043	100	2,817	100	156	100							
Estimated number of hours working for pay	tmworkhrs											7.1	7.8	-.06	9.0	-.15	9.4	-.17	
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	27	93	671	64	1,814	64	85	54	.6	2.2 **	-0.36	2.2 **	-0.36	3.0 ***	-0.47	
	<i>(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	1	3	246	24	686	24	48	31								
		8	6-10 hrs	0	0	71	7	153	5	11	7								
		13	11-15 hrs	1	3	20	2	73	3	4	3								
		18	16-20 hrs	0	0	16	2	51	2	4	3								
		23	21-25 hrs	0	0	9	1	15	1	2	1								
		28	26-30 hrs	0	0	3	0	11	0	1	1								
		33	More than 30 hrs	0	0	5	0	10	0	1	1								
		Total			29	100	1,041	100	2,813	100	156	100							
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	0	0	33	3	63	2	7	5	13.9	13.4	.05	13.4	.05	12.8	.11	
	<i>(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	5	17	197	19	521	19	32	21								
		8	6-10 hrs	9	31	250	24	703	25	37	24								
		13	11-15 hrs	6	21	212	20	586	21	30	19								
		18	16-20 hrs	4	14	141	14	389	14	22	14								
		23	21-25 hrs	0	0	68	7	191	7	6	4								
		28	26-30 hrs	0	0	28	3	109	4	5	3								
		33	More than 30 hrs	5	17	111	11	254	9	16	10								
		Total			29	100	1,040	100	2,816	100	155	100							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k																
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with																
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ						
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	26	90	781	75	2,078	74	120	77	.8	▼	2.6 **	-.27	▼	3.3 ***	-.32	▼	3.0 **	-.31							
	(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	3	118	11	275	10	13	8																	
	8	6-10 hrs	1	3	47	5	130	5	4	3																		
	13	11-15 hrs	1	3	37	4	96	3	6	4																		
	18	16-20 hrs	0	0	17	2	70	2	4	3																		
	23	21-25 hrs	0	0	11	1	31	1	2	1																		
	28	26-30 hrs	0	0	6	1	24	1	0	0																		
	33	More than 30 hrs	0	0	24	2	103	4	6	4																		
Total				29	100	1,041	100	2,807	100	155	100																	
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	6	21	306	29	1,265	45	54	35	6.3	▲	5.2	.17	▲	3.9 *	.39	4.9	.21								
	(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	12	41	421	40	921	33	57	37																	
	8	6-10 hrs	5	17	174	17	329	12	25	16																		
	13	11-15 hrs	3	10	69	7	135	5	7	4																		
	18	16-20 hrs	2	7	30	3	67	2	6	4																		
	23	21-25 hrs	0	0	9	1	37	1	3	2																		
	28	26-30 hrs	0	0	3	0	14	0	1	1																		
	33	More than 30 hrs	1	3	31	3	43	2	3	2																		
Total				29	100	1,043	100	2,811	100	156	100																	
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																												
		reading	1	Very little	3	10	221	21	373	13	37	24	2.7	2.4	.35	2.6	.09	2.3	.38									
		2	Some	13	45	405	39	1,076	38	55	35																	
		3	About half	2	7	267	26	752	27	43	28																	
		4	Most	11	38	118	11	461	16	18	12																	
		5	Almost all	0	0	32	3	158	6	3	2																	
		Total				29	100	1,043	100	2,820	100	156								100								
		tmreadinghrs																				6.2	5.6	.11	6.4	-.03	5.8	.07
		<i>(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)</i>																										

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
	treadinghrscol	1	0 hrs	0	0	5	0	16	1	1	1								
	<i>(Collapsed version of treadinghrs created by NSSE.)</i>	2	More than zero, up to 5 hrs	15	52	616	59	1,530	54	101	65								
		3	More than 5, up to 10 hrs	9	31	274	26	744	26	27	17								
		4	More than 10, up to 15 hrs	2	7	74	7	257	9	9	6								
		5	More than 15, up to 20 hrs	2	7	41	4	138	5	12	8								
		6	More than 20, up to 25 hrs	1	3	20	2	90	3	4	3								
		7	More than 25 hrs	0	0	10	1	37	1	2	1								
		Total		29	100	1,040	100	2,812	100	156	100								

17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

a. Writing clearly and effectively	pgwrite	1	Very little	0	0	123	12	210	7	18	12	3.1	▲	2.7 **	.48	▲	2.8 *	.37	▲	2.7 **	.48
		2	Some	6	21	324	31	793	28	43	28										
		3	Quite a bit	14	48	380	37	1,195	43	65	42										
		4	Very much	9	31	214	21	605	22	29	19										
		Total		29	100	1,041	100	2,803	100	155	100										
b. Speaking clearly and effectively	pgspeak	1	Very little	3	10	157	15	336	12	20	13	2.8		2.5	.25	▲	2.7	.12	▲	2.7	.11
		2	Some	9	31	377	36	880	31	44	28										
		3	Quite a bit	9	31	317	30	1,032	37	61	39										
		4	Very much	8	28	191	18	568	20	30	19										
		Total		29	100	1,042	100	2,816	100	155	100										
c. Thinking critically and analytically	pgthink	1	Very little	0	0	57	5	98	3	10	6	3.0		3.0	.05	▲	3.1	-.07	▲	2.9	.11
		2	Some	9	31	229	22	515	18	36	23										
		3	Quite a bit	10	34	415	40	1,231	44	64	41										
		4	Very much	10	34	337	32	973	35	46	29										
		Total		29	100	1,038	100	2,817	100	156	100										
d. Analyzing numerical and statistical information	pganalyze	1	Very little	1	3	85	8	216	8	14	9	3.0		2.9	.12	▲	2.9	.08	▲	2.8	.19
		2	Some	8	28	270	26	704	25	39	25										
		3	Quite a bit	11	38	393	38	1,076	38	67	43										
		4	Very much	9	31	293	28	821	29	35	23										
		Total		29	100	1,038	100	2,817	100	156	100										

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
			Total	29	100	1,041	100	2,817	100	155	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options		%		%		%		%								
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	6	21	168	16	379	13	27	18	2.6	2.5	.05	2.6	-.01	2.5	.05	
		2	Some	7	24	349	34	946	34	44	29								
		3	Quite a bit	9	31	318	31	931	33	56	36								
		4	Very much	7	24	203	20	562	20	27	18								
		Total		29	100	1,038	100	2,818	100	154	100								
f. Working effectively with others	pgothers	1	Very little	3	10	96	9	255	9	15	10	2.8	2.7	.10	2.7	.10	2.7	.13	
		2	Some	9	31	329	32	856	30	47	30								
		3	Quite a bit	7	24	371	36	1,081	38	63	40								
		4	Very much	10	34	244	23	623	22	31	20								
		Total		29	100	1,040	100	2,815	100	156	100								
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	4	14	181	17	410	15	25	16	2.7	2.6	.12	2.6	.09	2.6	.11	
		2	Some	10	34	313	30	878	31	44	28								
		3	Quite a bit	6	21	322	31	944	34	57	37								
		4	Very much	9	31	224	22	579	21	29	19								
		Total		29	100	1,040	100	2,811	100	155	100								
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	4	14	135	13	382	14	24	15	2.8	2.7	.13	2.7	.13	2.6	.22	
		2	Some	7	24	324	31	820	29	44	28								
		3	Quite a bit	9	31	335	32	962	34	60	39								
		4	Very much	9	31	245	24	649	23	27	17								
		Total		29	100	1,039	100	2,813	100	155	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	4	14	150	14	361	13	25	16	2.8	2.6	.21	2.6	.16	2.6	.22	
		2	Some	8	29	345	33	894	32	46	29								
		3	Quite a bit	6	21	335	32	978	35	56	36								
		4	Very much	10	36	209	20	583	21	29	19								
		Total		28	100	1,039	100	2,816	100	156	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	5	18	156	15	414	15	24	16	2.6	2.6	-.01	2.6	.02	2.5	.04	
		2	Some	8	29	342	33	957	34	50	33								
		3	Quite a bit	9	32	326	31	924	33	52	34								
		4	Very much	6	21	216	21	529	19	27	18								
		Total		28	100	1,040	100	2,824	100	153	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

First-Year Students^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	0	0	19	2	52	2	8	5	3.2	3.1	.17	3.2	.01	3.2	.10	
		2	Fair	5	17	177	17	319	11	14	9								
		3	Good	12	41	516	49	1,378	49	79	51								
		4	Excellent	12	41	337	32	1,076	38	55	35								
			Total	29	100	1,049	100	2,825	100	156	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	0	0	47	4	96	3	9	6	3.2	3.2	.11	3.2	.00	3.2	.11	
		2	Probably no	3	10	125	12	309	11	18	12								
		3	Probably yes	16	55	501	48	1,240	44	68	44								
		4	Definitely yes	10	34	377	36	1,187	42	60	39								
			Total	29	100	1,050	100	2,832	100	155	100								
20. Do you intend to return to this institution next year?^f																			
	returnexp		No	2	7	57	5	110	4	17	11	86%	87%	-.01	89%	-.08	83%	.10	
			Yes	25	86	911	87	2,514	89	128	83								
			Not sure	2	7	84	8	205	7	10	6								
			Total	29	100	1,052	100	2,829	100	155	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Your seniors compared with		Mean	Effect size ⁿ	Mean	Effect size ⁿ
														Effect size ⁿ	Effect size ⁿ				
1. During the current school year, about how often have you done the following?																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	2	6	94	6	121	4	8	4	3.0	2.8	.21	3.0	-.07	2.9	.03	
		2	Sometimes	11	32	554	37	899	27	69	33								
		3	Often	7	21	446	30	1,036	31	59	28								
		4	Very often	14	41	409	27	1,253	38	73	35								
		Total		34	100	1,503	100	3,309	100	209	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	8	24	431	29	823	25	58	28	2.4	2.2	.21	2.3	.09	2.3	.08	
		2	Sometimes	12	35	558	37	1,172	36	71	34								
		3	Often	7	21	326	22	807	24	41	20								
		4	Very often	7	21	184	12	497	15	40	19								
		Total		34	100	1,499	100	3,299	100	210	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	1	3	117	8	191	6	15	7	2.9	2.9	-.03	3.0	-.18	3.0	-.08	
		2	Often	9	26	240	16	450	14	32	15								
		3	Sometimes	17	50	812	54	1,745	53	110	53								
		4	Never	7	21	333	22	921	28	52	25								
		Total		34	100	1,502	100	3,307	100	209	100								
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	21	62	786	52	1,674	51	107	52	1.6	1.7	-.02	1.7	-.05	1.7	-.07	
		2	Sometimes	5	15	500	33	1,139	34	68	33								
		3	Often	7	21	139	9	332	10	17	8								
		4	Very often	1	3	74	5	162	5	15	7								
		Total		34	100	1,499	100	3,307	100	207	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	0	0	172	11	461	14	18	9	2.7	2.6	.08	2.5	.18	2.7	-.03	
		2	Sometimes	19	56	566	38	1,291	39	72	34								
		3	Often	7	21	456	30	971	29	75	36								
		4	Very often	8	24	311	21	584	18	45	21								
		Total		34	100	1,505	100	3,307	100	210	100								
f. Explained course material to one or more students	CLexplain	1	Never	0	0	73	5	189	6	7	3	2.9	2.9	-.01	2.9	-.05	3.0	-.15	
		2	Sometimes	15	44	489	33	923	28	58	28								
		3	Often	9	26	521	35	1,223	37	76	36								
		4	Very often	10	29	421	28	973	29	68	33								
		Total		34	100	1,504	100	3,308	100	209	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	5	15	265	18	604	18	22	10	2.6	2.6	.04	2.5	.09	2.8	-.19	
		2	Sometimes	13	38	467	31	1,090	33	60	29								
		3	Often	6	18	409	27	878	27	64	30								
		4	Very often	10	29	359	24	735	22	64	30								
		Total		34	100	1,500	100	3,307	100	210	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	1	3	109	7	303	9	10	5	3.1	2.8	.29	2.8	.31	2.9	.18	
		2	Sometimes	8	24	469	31	988	30	69	33								
		3	Often	12	35	504	34	1,100	33	57	27								
		4	Very often	13	38	421	28	915	28	72	35								
		Total		34	100	1,503	100	3,306	100	208	100								
i. Given a course presentation	present	1	Never	8	24	280	19	505	15	20	10	2.3	2.4	-.10	2.5	-.23	2.7 *	-.41	
		2	Sometimes	12	35	584	39	1,221	37	80	38								
		3	Often	10	29	410	27	932	28	56	27								
		4	Very often	4	12	229	15	647	20	54	26								
		Total		34	100	1,503	100	3,305	100	210	100								
2. During the current school year, about how often have you done the following?																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	2	6	89	6	152	5	7	3	2.8	2.8	-.05	2.9	-.11	3.0	-.19	
		2	Sometimes	12	36	465	31	964	29	59	28								
		3	Often	10	30	559	37	1,303	39	81	39								
		4	Very often	9	27	388	26	887	27	63	30								
		Total		33	100	1,501	100	3,306	100	210	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	5	15	292	20	555	17	35	17	2.3	2.3	-.05	2.4	-.15	2.4	-.17	
		2	Sometimes	18	53	629	42	1,333	40	82	39								
		3	Often	8	24	386	26	949	29	61	29								
		4	Very often	3	9	188	13	468	14	31	15								
		Total		34	100	1,495	100	3,305	100	209	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	11	32	457	30	862	26	59	28	2.1	2.0	.01	2.2	-.12	2.1	-.03	
		2	Sometimes	12	35	644	43	1,375	42	92	44								
		3	Often	9	26	271	18	706	21	40	19								
		4	Very often	2	6	130	9	359	11	19	9								
		Total		34	100	1,502	100	3,302	100	210	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	3	9	168	11	278	8	19	9	2.6	2.6	-.04	2.7	-.15	2.7	-.12	
		2	Sometimes	12	35	522	35	1,082	33	69	33								
		3	Often	16	47	560	37	1,315	40	84	40								
		4	Very often	3	9	249	17	624	19	37	18								
		Total		34	100	1,499	100	3,299	100	209	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	3	9	98	7	201	6	10	5	2.6	2.8	-.18	2.8	-.21	2.9	-.27	
		2	Sometimes	11	32	419	28	947	29	59	28								
		3	Often	15	44	667	44	1,360	41	89	42								
		4	Very often	5	15	317	21	790	24	52	25								
		Total		34	100	1,501	100	3,298	100	210	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	0	0	53	4	106	3	7	3	2.7	2.8	-.11	2.9	-.18	2.9	-.23	
		2	Sometimes	14	41	487	32	987	30	58	28								
		3	Often	15	44	635	42	1,405	43	89	42								
		4	Very often	5	15	327	22	804	24	56	27								
		Total		34	100	1,502	100	3,302	100	210	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	0	0	28	2	57	2	3	1	3.0	3.0	-.05	3.1	-.17	3.2	-.21	
		2	Sometimes	10	29	336	22	590	18	41	20								
		3	Often	14	41	690	46	1,509	46	84	40								
		4	Very often	10	29	447	30	1,139	35	81	39								
		Total		34	100	1,501	100	3,295	100	209	100								
3. During the current school year, about how often have you done the following?																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	4	12	352	23	592	18	29	14	2.6	2.3	.30	2.5	.14	2.6	-.03	
		2	Sometimes	12	36	600	40	1,256	38	73	35								
		3	Often	10	30	295	20	776	23	53	25								
		4	Very often	7	21	256	17	680	21	55	26								
		Total		33	100	1,503	100	3,304	100	210	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	10	29	664	44	1,321	40	65	31	2.2	2.0	.26	2.1	.15	2.4	-.12	
		2	Sometimes	11	32	425	28	906	27	48	23								
		3	Often	8	24	218	15	568	17	47	23								
		4	Very often	5	15	195	13	501	15	48	23								
		Total		34	100	1,502	100	3,296	100	208	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	3	9	423	28	729	22	38	18	2.6	2.2 ** ▲	.45	2.3	.28	2.5	.07	
		2	Sometimes	12	35	578	39	1,223	37	69	33								
		3	Often	14	41	312	21	823	25	50	24								
		4	Very often	5	15	186	12	519	16	50	24								
		Total		34	100	1,499	100	3,294	100	207	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	4	12	414	28	702	21	44	21	2.4		.28	2.3	.10	2.4	.02	
		2	Sometimes	18	53	652	43	1,396	42	81	39								
		3	Often	7	21	277	18	747	23	49	23								
		4	Very often	5	15	158	11	447	14	35	17								
		Total		34	100	1,501	100	3,292	100	209	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	2	6	109	7	259	8	13	6	2.8		-.01	2.7	.05	2.9	-.15	
		2	Some	13	38	446	30	1,075	33	52	25								
		3	Quite a bit	10	29	625	42	1,284	39	87	42								
		4	Very much	9	26	322	21	682	21	57	27								
		Total		34	100	1,502	100	3,300	100	209	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	1	3	63	4	117	4	10	5	3.1		-.02	3.1	-.06	3.2	-.17	
		2	Some	8	24	266	18	541	16	27	13								
		3	Quite a bit	12	35	612	41	1,405	43	76	37								
		4	Very much	13	38	553	37	1,236	37	95	46								
		Total		34	100	1,494	100	3,299	100	208	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	0	0	69	5	137	4	9	4	3.0		.02	3.1	-.03	3.1	-.11	
		2	Some	12	36	344	23	692	21	41	20								
		3	Quite a bit	8	24	586	39	1,316	40	74	35								
		4	Very much	13	39	500	33	1,153	35	85	41								
		Total		33	100	1,499	100	3,298	100	209	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	1	3	212	14	356	11	19	9	2.6		.03	2.7	-.10	2.8	-.20	
		2	Some	16	48	490	33	1,022	31	61	29								
		3	Quite a bit	11	33	526	35	1,166	35	75	36								
		4	Very much	5	15	275	18	751	23	54	26								
		Total		33	100	1,503	100	3,295	100	209	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	2	6	121	8	193	6	11	5	2.9	2.8	.09	2.9	-.01	3.0	-.10	
		2	Some	8	24	414	28	872	26	53	25								
		3	Quite a bit	16	47	609	41	1,345	41	77	37								
		4	Very much	8	24	354	24	885	27	68	33								
		Total		34	100	1,498	100	3,295	100	209	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	0	0	41	3	88	3	3	1	3.3	3.1	.34	3.1	.28	3.2	.20	
		2	Some	4	12	301	20	613	19	39	19								
		3	Quite a bit	15	44	684	46	1,459	44	87	42								
		4	Very much	15	44	472	32	1,133	34	80	38								
		Total		34	100	1,498	100	3,293	100	209	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	1	3	68	5	157	5	5	2	3.1	3.0	.18	3.0	.10	3.1	-.02	
		2	Some	9	26	329	22	602	18	38	18								
		3	Quite a bit	9	26	675	45	1,495	45	90	43								
		4	Very much	15	44	423	28	1,041	32	76	36								
		Total		34	100	1,495	100	3,295	100	209	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	0	0	68	5	120	4	8	4	3.3	3.0 *	.35	3.1	.25	3.2	.21	
		2	Some	4	12	311	21	618	19	36	17								
		3	Quite a bit	15	44	625	42	1,330	40	80	38								
		4	Very much	15	44	490	33	1,232	37	84	40								
		Total		34	100	1,494	100	3,300	100	208	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	0	0	266	18	389	12	30	14	2.9	2.5 **	.41	2.7	.22	2.7	.19	
		2	Some	11	32	491	33	1,005	30	60	29								
		3	Quite a bit	15	44	453	30	1,118	34	57	27								
		4	Very much	8	24	286	19	786	24	62	30								
		Total		34	100	1,496	100	3,298	100	209	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	0	0	161	11	234	7	19	9	3.1	2.7 **	.41	2.8	.25	2.9	.15	
		2	Some	8	24	479	32	919	28	47	22								
		3	Quite a bit	15	45	536	36	1,287	39	75	36								
		4	Very much	10	30	320	21	852	26	68	33								
		Total		33	100	1,496	100	3,292	100	209	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

		Frequency Distributions										Statistical Comparisons ^k							
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
6. During the current school year, about how often have you done the following?																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	0	0	104	7	208	6	9	4	3.2	2.9 * ▲	.36	2.9	.27	3.0	.22	
		2	Sometimes	9	27	393	26	853	26	47	23								
		3	Often	9	27	605	40	1,183	36	87	42								
		4	Very often	15	45	394	26	1,050	32	65	31								
			Total	33	100	1,496	100	3,294	100	208	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	8	24	357	24	671	20	39	19	2.5	2.4	.13	2.5	.02	2.5	.00	
		2	Sometimes	9	27	499	34	1,078	33	68	33								
		3	Often	8	24	386	26	884	27	61	29								
		4	Very often	8	24	247	17	655	20	39	19								
			Total	33	100	1,489	100	3,288	100	207	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	3	9	260	17	474	14	28	13	2.7	2.5	.28	2.5	.19	2.6	.12	
		2	Sometimes	11	33	524	35	1,155	35	61	29								
		3	Often	11	33	466	31	1,044	32	82	39								
		4	Very often	8	24	238	16	612	19	37	18								
			Total	33	100	1,488	100	3,285	100	208	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.)																			
a. Up to 5 pages	wrshortnum	0	None	4	12	267	18	414	13	37	18	6.8	5.0	.32	6.0	.12	5.0	.30	
	(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	8	24	396	27	814	25	60	29								
		4	3-5	10	30	399	27	912	28	54	26								
		8	6-10	2	6	220	15	535	16	26	13								
		13	11-15	4	12	108	7	281	9	14	7								
		18	16-20	2	6	47	3	123	4	9	4								
		23	More than 20	3	9	55	4	210	6	8	4								
			Total	33	100	1,492	100	3,289	100	208	100								
b. Between 6 and 10 pages	wrmednum	0	None	13	39	673	45	1,176	36	72	35	1.6	2.4 * ▼	-.20	2.8 ** ▼	-.29	2.7 * ▼	-.27	
	(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	14	42	410	27	1,057	32	76	37								
		4	3-5	4	12	229	15	580	18	33	16								
		8	6-10	2	6	109	7	281	9	16	8								
		13	11-15	0	0	41	3	108	3	4	2								
		18	16-20	0	0	12	1	37	1	3	1								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

		Frequency Distributions								Statistical Comparisons ^k								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
		23	More than 20	0	0	17	1	47	1	3	1							
			Total	33	100	1,491	100	3,286	100	207	100							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. 11 pages or more	wrlongnum	0	None	25	76	968	65	1,902	58	119	57	.7	1.5	-.22	1.6	-.25	1.6	-.26	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	5	15	313	21	915	28	59	28								
		4	3-5	2	6	98	7	256	8	17	8								
		8	6-10	1	3	51	3	89	3	5	2								
		13	11-15	0	0	35	2	65	2	4	2								
		18	16-20	0	0	5	0	19	1	1	0								
		23	More than 20	0	0	21	1	40	1	3	1								
		Total			33	100	1,491	100	3,286	100	208	100							
Estimated number of assigned pages of student writing.	wrpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									44.0	56.7	-.14	64.1	-.22	60.6	-.18	

8. During the current school year, about how often have you had discussions with people from the following groups?

a. People of a race or ethnicity other than your own	DDrace	1	Never	1	3	111	7	228	7	13	6	3.1	3.1	.01	3.0	.06	3.1	-.02
		2	Sometimes	9	27	337	23	812	25	51	24							
		3	Often	10	30	412	28	972	30	52	25							
		4	Very often	13	39	637	43	1,277	39	93	44							
			Total	33	100	1,497	100	3,289	100	209	100							
b. People from an economic background other than your own	DDeconomic	1	Never	1	3	105	7	196	6	14	7	3.1	3.0	.13	3.0	.15	3.0	.09
		2	Sometimes	8	24	341	23	794	24	47	23							
		3	Often	10	30	489	33	1,163	35	64	31							
		4	Very often	14	42	556	37	1,134	34	83	40							
			Total	33	100	1,491	100	3,287	100	208	100							
c. People with religious beliefs other than your own	DDreligion	1	Never	2	6	129	9	255	8	18	9	3.2	3.0	.19	2.9	.24	3.1	.11
		2	Sometimes	6	18	323	22	846	26	40	19							
		3	Often	9	27	470	31	1,001	30	59	28							
		4	Very often	16	48	572	38	1,183	36	91	44							
			Total	33	100	1,494	100	3,285	100	208	100							
d. People with political views other than your own	DDpolitical	1	Never	2	6	140	9	267	8	19	9	2.9	2.9	.09	2.9	.07	3.0	-.04
		2	Sometimes	10	31	423	28	959	29	51	25							
		3	Often	8	25	452	30	987	30	52	25							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k				
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your seniors compared with				
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	
									Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		4	Very often	12	38	479	32	1,072	33	85	41					
			Total	32	100	1,494	100	3,285	100	207	100					

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
9. During the current school year, about how often have you done the following?																			
a. Identified key information from reading assignments	LSreading	1	Never	0	0	100	7	140	4	12	6	2.9	2.9	.06	3.0	-.04	3.0	-.04	
		2	Sometimes	11	33	370	25	774	24	44	21								
		3	Often	13	39	624	42	1,405	43	88	43								
		4	Very often	9	27	397	27	971	30	63	30								
		Total		33	100	1,491	100	3,290	100	207	100								
b. Reviewed your notes after class	LSnotes	1	Never	1	3	118	8	272	8	19	9	2.7	2.8	-.10	2.8	-.08	2.9	-.20	
		2	Sometimes	15	45	442	30	1,035	31	53	26								
		3	Often	9	27	528	35	1,047	32	59	29								
		4	Very often	8	24	405	27	938	28	76	37								
		Total		33	100	1,493	100	3,292	100	207	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	3	9	147	10	288	9	17	8	2.5	2.7	-.17	2.8	-.24	2.8	-.25	
		2	Sometimes	16	48	492	33	1,026	31	65	31								
		3	Often	7	21	511	34	1,148	35	74	36								
		4	Very often	7	21	342	23	829	25	52	25								
		Total		33	100	1,492	100	3,291	100	208	100								
10. During the current school year, to what extent have your courses challenged you to do your best work?																			
challenge		1	Not at all	0	0	33	2	48	1	5	2	5.7	5.4	.17	5.5	.12	5.6	.04	
		2		0	0	38	3	66	2	5	2								
		3		0	0	85	6	171	5	14	7								
		4		6	18	160	11	345	10	14	7								
		5		8	24	391	26	897	27	47	23								
		6		10	30	367	25	790	24	40	20								
		7	Very much	9	27	417	28	970	30	80	39								
		Total		33	100	1,491	100	3,287	100	205	100								
11. Which of the following have you done or do you plan to do before you graduate?^o																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		4	12	193	13	354	11	23	11	42%	35%	.15	39%	.06	39%	.07	
		Do not plan to do		8	24	224	15	629	19	36	17								
		Plan to do		7	21	550	37	1,010	31	67	32								
		Done or in progress		14	42	528	35	1,301	39	81	39								
		<i>(Means indicate the percentage who responded "Done or in progress")</i>																	

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

<i>Item wording or description</i>	<i>Variable name^l progress.")</i>	<i>Values^m</i>	<i>Response options</i>	Frequency Distributions								Statistical Comparisons ^k				
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		<i>Your seniors compared with</i>				
				<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>ASU</i>	<i>Southwest Public</i>	<i>Carnegie Class</i>	<i>SACSCOC Peers</i>	
									<i>Mean</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	
			Total	33	100	1,495	100	3,294	100	207	100					

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k						
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
b. Hold a formal leadership role in a student organization or group	leader <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	2	6	183	12	345	10	27	13	30%	30%	.00	34%	-.09	42%	-.25
			Do not plan to do	18	55	707	47	1,575	48	74	36							
			Plan to do	3	9	149	10	240	7	18	9							
			Done or in progress	10	30	454	30	1,128	34	87	42							
			Total	33	100	1,493	100	3,288	100	206	100							
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	7	21	225	15	467	14	32	15	21%	18%	.07	20%	.03	29%	-.18
			Do not plan to do	18	55	825	55	1,864	57	93	45							
			Plan to do	1	3	168	11	298	9	23	11							
			Done or in progress	7	21	273	18	660	20	60	29							
			Total	33	100	1,491	100	3,289	100	208	100							
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	5	15	196	13	405	12	32	15	12%	9%	.12	11%	.05	15%	-.08
			Do not plan to do	24	73	1,028	69	2,317	70	129	62							
			Plan to do	0	0	142	10	223	7	15	7							
			Done or in progress	4	12	128	9	348	11	31	15							
			Total	33	100	1,494	100	3,293	100	207	100							
e. Work with a faculty member on a research project	research <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	4	12	253	17	488	15	26	13	55%	29% **	.51	35% *	.40	50%	.10
			Do not plan to do	8	24	504	34	1,190	36	48	23							
			Plan to do	3	9	297	20	474	14	30	15							
			Done or in progress	18	55	440	29	1,138	35	102	50							
			Total	33	100	1,494	100	3,290	100	206	100							
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	1	3	203	14	327	10	24	12	55%	35% *	.40	46%	.17	43%	.24
			Do not plan to do	6	18	332	22	577	18	34	16							
			Plan to do	8	24	440	29	868	26	61	29							
			Done or in progress	18	55	519	35	1,523	46	89	43							
			Total	33	100	1,494	100	3,295	100	208	100							

12. About how many of your courses at this institution have included a community-based project (service-learning)?

servcourse	1	2	3	None	Some	Most	ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with				
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
1	21	64	906	61	1,722	52	117	56	1.4	1.5	-.12	1.6	-.25	1.5	-.21						
2	11	33	497	33	1,345	41	74	36													
3	1	3	63	4	159	5	13	6													

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k										
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your seniors compared with										
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
		4	All	0	0	28	2	58	2	4	2											
			Total	33	100	1,494	100	3,284	100	208	100											

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ		
														Mean	Effect size ⁿ		Mean	Effect size ⁿ	
13. Indicate the quality of your interactions with the following people at your institution.																			
a. Students	QIstudent	1	Poor	0	0	21	1	55	2	1	0	5.7	5.5	.13	5.5	.13	5.6	.05	
		2		1	3	40	3	83	3	4	2								
		3		1	3	61	4	124	4	7	3								
		4		3	9	164	11	376	11	31	15								
		5		9	27	401	27	848	26	51	25								
		6		8	24	371	25	828	25	42	20								
		7	Excellent	11	33	421	28	908	28	71	34								
		—	Not applicable	0	0	15	1	74	2	1	0								
			Total	33	100	1,494	100	3,296	100	208	100								
b. Academic advisors	QIadvisor	1	Poor	0	0	73	5	140	4	6	3	5.7	5.2	.29	5.3	.21	5.5	.13	
		2		1	3	73	5	146	4	8	4								
		3		2	6	123	8	206	6	21	10								
		4		4	12	192	13	406	12	20	10								
		5		7	21	276	18	547	17	29	14								
		6		4	12	261	17	668	20	32	15								
		7	Excellent	15	45	479	32	1,125	34	87	42								
		—	Not applicable	0	0	19	1	51	2	4	2								
			Total	33	100	1,496	100	3,289	100	207	100								
c. Faculty	QIfaculty	1	Poor	1	3	32	2	52	2	1	0	5.9	5.3 *	.37	5.5	.25	5.6	.19	
		2		0	0	51	3	86	3	2	1								
		3		0	0	95	6	146	4	12	6								
		4		3	9	191	13	362	11	25	12								
		5		7	21	334	22	748	23	43	21								
		6		8	24	401	27	893	27	58	28								
		7	Excellent	14	42	379	25	979	30	65	31								
		—	Not applicable	0	0	9	1	25	1	2	1								
			Total	33	100	1,492	100	3,291	100	208	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	1	3	73	5	146	4	13	6	4.8	4.9	-.04	5.0	-.07	5.0	-.11	
		2		1	3	59	4	135	4	5	2								
		3		2	6	106	7	245	7	15	7								
		4		8	24	200	13	402	12	23	11								
		5		7	21	265	18	597	18	36	17								
		6		6	18	243	16	528	16	44	21								
		7	Excellent	4	12	260	17	613	19	39	19								
		—	Not applicable	4	12	289	19	625	19	33	16								
	Total			33	100	1,495	100	3,291	100	208	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	1	3	85	6	168	5	14	7	5.3	4.9	.23	5.0	.18	4.9	.21	
		2		1	3	74	5	152	5	9	4								
		3		1	3	117	8	253	8	21	10								
		4		7	21	214	14	480	15	28	14								
		5		6	18	307	21	692	21	35	17								
		6		8	24	291	19	624	19	40	19								
		7	Excellent	9	27	291	19	728	22	49	24								
		—	Not applicable	0	0	115	8	199	6	11	5								
	Total			33	100	1,494	100	3,296	100	207	100								
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	0	0	52	3	79	2	8	4	3.1	3.1	.03	3.1	.02	3.1	.03	
		2	Some	8	24	276	18	650	20	38	18								
		3	Quite a bit	14	42	692	46	1,516	46	94	45								
		4	Very much	11	33	475	32	1,053	32	68	33								
			Total			33	100	1,495	100	3,298	100								208
b. Providing support to help students succeed academically	SEacademic	1	Very little	1	3	106	7	163	5	13	6	3.1	2.9	.23	3.0	.11	3.0	.12	
		2	Some	7	21	384	26	790	24	50	24								
		3	Quite a bit	14	42	617	41	1,331	40	76	37								
		4	Very much	11	33	385	26	1,006	31	67	33								
			Total			33	100	1,492	100	3,290	100								206
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	1	3	130	9	252	8	19	9	3.2	2.9 *	.41	2.9 *	.36	3.0	.29	
		2	Some	4	12	382	26	815	25	43	21								
		3	Quite a bit	14	42	538	36	1,206	37	68	33								
		4	Very much	14	42	438	29	1,018	31	75	37								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

		Frequency Distributions								Statistical Comparisons ^k								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
			Total	33	100	1,488	100	3,291	100	205	100							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k						
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	8	24	281	19	535	16	37	18	2.4	2.5	-.08	2.6	-.14	2.5	-.12
		2	Some	10	30	480	32	1,055	32	62	30							
		3	Quite a bit	8	24	427	29	1,008	31	64	31							
		4	Very much	7	21	301	20	689	21	43	21							
		Total		33	100	1,489	100	3,287	100	206	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	2	6	168	11	306	9	20	10	3.1	2.7 *	.36	2.8	.33	2.8	.26
		2	Some	5	15	410	27	964	29	55	27							
		3	Quite a bit	15	45	573	38	1,231	37	75	36							
		4	Very much	11	33	340	23	785	24	57	28							
		Total		33	100	1,491	100	3,286	100	207	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	2	6	194	13	406	12	21	10	3.1	2.6 **	.45	2.7 *	.40	2.8	.30
		2	Some	5	15	466	31	966	29	65	32							
		3	Quite a bit	15	45	522	35	1,180	36	61	30							
		4	Very much	11	33	308	21	734	22	59	29							
		Total		33	100	1,490	100	3,286	100	206	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	10	31	520	35	1,096	33	62	30	2.3	2.0	.27	2.1	.24	2.1	.17
		2	Some	8	25	546	37	1,220	37	78	38							
		3	Quite a bit	9	28	300	20	653	20	48	23							
		4	Very much	5	16	126	8	312	10	19	9							
		Total		32	100	1,492	100	3,281	100	207	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	1	3	219	15	584	18	25	12	3.2	2.6 ***	.62	2.5 ***	.72	2.7 **	.51
		2	Some	6	18	500	34	1,139	35	64	31							
		3	Quite a bit	13	39	494	33	1,031	31	69	34							
		4	Very much	13	39	279	19	528	16	47	23							
		Total		33	100	1,492	100	3,282	100	205	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	8	24	360	24	807	25	42	21	2.6	2.2 *	.38	2.2 *	.35	2.3	.27
		2	Some	5	15	604	40	1,226	37	81	40							
		3	Quite a bit	13	39	366	25	875	27	54	27							
		4	Very much	7	21	162	11	370	11	26	13							
		Total		33	100	1,492	100	3,278	100	203	100							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

		Frequency Distributions										Statistical Comparisons ^k						
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
15. About how many hours do you spend in a typical 7-day week doing the following?																		
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmprephrs	0	0 hrs	0	0	12	1	14	0	2	1	16.3	16.2	.02	16.2	.01	15.1	.13
	(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	15	174	12	361	11	31	15							
		8	6-10 hrs	9	27	303	20	678	21	43	21							
		13	11-15 hrs	5	15	294	20	648	20	43	21							
		18	16-20 hrs	3	9	263	18	599	18	32	16							
		23	21-25 hrs	2	6	168	11	388	12	22	11							
		28	26-30 hrs	2	6	97	6	219	7	13	6							
		33	More than 30 hrs	7	21	184	12	381	12	20	10							
	Total			33	100	1,495	100	3,288	100	206	100							
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	13	39	724	48	1,510	46	78	38	4.1	3.9	.03	4.3	-.04	4.3	-.03
	(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	13	39	408	27	946	29	68	33							
		8	6-10 hrs	2	6	185	12	382	12	38	19							
		13	11-15 hrs	4	12	88	6	181	6	8	4							
		18	16-20 hrs	0	0	39	3	120	4	9	4							
		23	21-25 hrs	0	0	28	2	71	2	3	1							
		28	26-30 hrs	1	3	9	1	29	1	0	0							
		33	More than 30 hrs	0	0	12	1	42	1	1	0							
	Total			33	100	1,493	100	3,281	100	205	100							
c. Working for pay on campus	tmworkonhrs	0	0 hrs	17	52	1,034	69	2,106	64	127	61	7.4	4.6 *	.35	4.6	.36	6.2	.14
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	3	47	3	192	6	5	2							
		8	6-10 hrs	3	9	82	5	318	10	6	3							
		13	11-15 hrs	3	9	105	7	245	7	22	11							
		18	16-20 hrs	7	21	152	10	282	9	39	19							
		23	21-25 hrs	1	3	43	3	67	2	4	2							
		28	26-30 hrs	1	3	6	0	28	1	0	0							
		33	More than 30 hrs	0	0	23	2	43	1	4	2							
	Total			33	100	1,492	100	3,281	100	207	100							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	16	48	738	49	1,460	44	127	61	9.7	10.5	-.06	11.8	-.16	7.4	.21	
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	3	69	5	153	5	4	2								
	8	6-10 hrs	4	12	78	5	197	6	15	7									
	13	11-15 hrs	0	0	93	6	225	7	17	8									
	18	16-20 hrs	3	9	117	8	303	9	10	5									
	23	21-25 hrs	6	18	119	8	228	7	9	4									
	28	26-30 hrs	1	3	69	5	137	4	6	3									
	33	More than 30 hrs	2	6	209	14	590	18	19	9									
	Total			33	100	1,492	100	3,293	100	207	100								
Estimated number of hours working for pay	tmworkhrs											17.1	15.1	.15	16.4	.05	13.6	.29	
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	21	64	930	62	2,060	63	119	58	2.8	2.3	.09	2.2	.12	2.7	.00	
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	6	18	377	25	873	27	57	28								
	8	6-10 hrs	4	12	99	7	184	6	16	8									
	13	11-15 hrs	0	0	37	2	72	2	4	2									
	18	16-20 hrs	1	3	23	2	52	2	6	3									
	23	21-25 hrs	1	3	13	1	24	1	2	1									
	28	26-30 hrs	0	0	5	0	4	0	1	0									
	33	More than 30 hrs	0	0	6	0	19	1	1	0									
	Total			33	100	1,490	100	3,288	100	206	100								
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	0	0	55	4	112	3	6	3	13.2	11.3	.21	11.4	.20	11.2	.22	
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	15	385	26	842	26	58	28								
	8	6-10 hrs	11	33	404	27	933	28	52	25									
	13	11-15 hrs	6	18	267	18	566	17	32	15									
	18	16-20 hrs	6	18	167	11	369	11	36	17									
	23	21-25 hrs	2	6	87	6	157	5	5	2									
	28	26-30 hrs	0	0	31	2	72	2	7	3									
	33	More than 30 hrs	3	9	96	6	236	7	11	5									
	Total			33	100	1,492	100	3,287	100	207	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options	Your seniors compared with															
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	27	82	1,000	67	2,160	66	139	68	2.7	4.7	-0.22	5.2	-0.25	4.9	-0.22	
	(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	3	9	185	12	378	12	25	12								
	8	6-10 hrs	0	0	69	5	175	5	9	4									
	13	11-15 hrs	1	3	49	3	106	3	2	1									
	18	16-20 hrs	0	0	38	3	100	3	6	3									
	23	21-25 hrs	0	0	26	2	50	2	1	0									
	28	26-30 hrs	0	0	18	1	33	1	1	0									
	33	More than 30 hrs	2	6	107	7	280	9	20	10									
	Total			33	100	1,492	100	3,282	100	203	100								
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	4	12	138	9	715	22	29	14	4.3	6.2 **	-0.31	5.1	-0.13	6.0 *	-0.27	
	(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	20	61	773	52	1,569	48	104	50								
	8	6-10 hrs	7	21	353	24	599	18	39	19									
	13	11-15 hrs	2	6	128	9	235	7	21	10									
	18	16-20 hrs	0	0	40	3	72	2	4	2									
	23	21-25 hrs	0	0	21	1	29	1	3	1									
	28	26-30 hrs	0	0	11	1	16	0	2	1									
	33	More than 30 hrs	0	0	28	2	52	2	4	2									
	Total			33	100	1,492	100	3,287	100	206	100								
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
reading	1	Very little	17	52	419	28	734	22	74	36	1.8	2.3 *	-0.39	2.4 **	-0.51	2.1	-0.25		
	2	Some	9	27	532	36	1,184	36	64	31									
	3	About half	4	12	316	21	807	24	45	22									
	4	Most	1	3	166	11	407	12	17	8									
	5	Almost all	2	6	61	4	162	5	7	3									
		Total			33	100	1,494	100	3,294	100								207	100
tmreadinghrs																			
(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)																			
				4.5		5.7		-0.21		6.2		-0.29		4.8		-0.04			

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions						Statistical Comparisons ^k									
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
	treadinghrscol	1	0 hrs	0	0	12	1	14	0	2	1								
	(Collapsed version of treadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	26	79	898	60	1,838	56	133	65								
		3	More than 5, up to 10 hrs	2	6	349	23	842	26	52	25								
		4	More than 10, up to 15 hrs	3	9	102	7	257	8	8	4								
		5	More than 15, up to 20 hrs	1	3	75	5	183	6	6	3								
		6	More than 20, up to 25 hrs	0	0	41	3	111	3	4	2								
		7	More than 25 hrs	1	3	15	1	37	1	1	0								
			Total	33	100	1,492	100	3,282	100	206	100								

17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

a. Writing clearly and effectively	pgwrite	1	Very little	1	3	186	12	294	9	20	10	2.8	2.7	.05	2.8	-.05	2.8	-.09
		2	Some	14	42	425	29	916	28	58	28							
		3	Quite a bit	10	30	518	35	1,206	37	64	31							
		4	Very much	8	24	361	24	867	26	65	31							
			Total	33	100	1,490	100	3,283	100	207	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	1	3	209	14	380	12	17	8	2.6	2.6	-.01	2.7	-.10	2.8	-.19
		2	Some	15	45	441	30	939	29	63	30							
		3	Quite a bit	12	36	509	34	1,149	35	69	33							
		4	Very much	5	15	335	22	822	25	58	28							
			Total	33	100	1,494	100	3,290	100	207	100							
c. Thinking critically and analytically	pgthink	1	Very little	0	0	57	4	103	3	7	3	3.4	3.2	.17	3.3	.12	3.3	.09
		2	Some	4	12	227	15	475	14	27	13							
		3	Quite a bit	13	39	542	36	1,155	35	72	35							
		4	Very much	16	48	669	45	1,555	47	101	49							
			Total	33	100	1,495	100	3,288	100	207	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	0	0	73	5	147	4	5	2	3.4	3.2	.22	3.2	.20	3.3	.10
		2	Some	5	15	249	17	556	17	30	15							
		3	Quite a bit	10	30	482	32	1,012	31	67	33							
		4	Very much	18	55	689	46	1,575	48	104	50							
			Total	33	100	1,495	100	3,288	100	207	100							

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
			Total	33	100	1,493	100	3,290	100	206	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	5	15	205	14	307	9	16	8	2.7	2.7	.01	2.9	-.16	2.9	-.20	
		2	Some	7	21	422	28	841	26	52	25								
		3	Quite a bit	13	39	463	31	1,063	32	72	35								
		4	Very much	8	24	403	27	1,077	33	67	32								
		Total		33	100	1,493	100	3,288	100	207	100								
f. Working effectively with others	pgothers	1	Very little	1	3	127	9	267	8	16	8	2.8	2.8	.01	2.9	-.05	3.0	-.17	
		2	Some	11	33	393	26	800	24	44	21								
		3	Quite a bit	13	39	566	38	1,233	37	68	33								
		4	Very much	8	24	408	27	992	30	78	38								
		Total		33	100	1,494	100	3,292	100	206	100								
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	6	18	295	20	556	17	25	12	2.5	2.5	.00	2.6	-.10	2.7	-.22	
		2	Some	12	36	440	29	957	29	60	29								
		3	Quite a bit	7	21	457	31	973	30	66	32								
		4	Very much	8	24	301	20	802	24	56	27								
		Total		33	100	1,493	100	3,288	100	207	100								
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	5	15	262	18	557	17	31	15	2.6	2.6	.06	2.6	.05	2.7	-.03	
		2	Some	10	30	465	31	1,010	31	63	31								
		3	Quite a bit	10	30	413	28	968	29	55	27								
		4	Very much	8	24	355	24	756	23	57	28								
		Total		33	100	1,495	100	3,291	100	206	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	3	9	185	12	371	11	16	8	2.6	2.7	-.11	2.8	-.18	2.9	-.30	
		2	Some	14	42	455	30	925	28	58	28								
		3	Quite a bit	9	27	455	30	1,057	32	66	32								
		4	Very much	7	21	403	27	941	29	67	32								
		Total		33	100	1,498	100	3,294	100	207	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	4	12	351	23	665	20	28	14	2.5	2.4	.08	2.5	.00	2.5	-.10	
		2	Some	14	42	499	33	1,112	34	82	40								
		3	Quite a bit	11	33	386	26	867	26	53	26								
		4	Very much	4	12	262	17	649	20	44	21								
		Total		33	100	1,498	100	3,293	100	207	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Phys Sci, Math, CS

Angelo State University

Seniors^a in Phys Sci, Math, CS

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ	Mean	Effect size ⁿ
														Effect size ⁿ	Effect size ⁿ				
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	0	0	65	4	122	4	4	2	3.2	3.1	.19	3.1	.08	3.2	-.03	
		2	Fair	7	21	262	18	472	14	26	13								
		3	Good	12	36	686	46	1,501	45	95	46								
		4	Excellent	14	42	483	32	1,210	37	82	40								
		Total		33	100	1,496	100	3,305	100	207	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	1	3	98	7	191	6	7	3	3.2	3.1	.12	3.1	.09	3.3	-.07	
		2	Probably no	5	15	213	14	497	15	23	11								
		3	Probably yes	14	41	629	42	1,322	40	86	41								
		4	Definitely yes	14	41	560	37	1,292	39	92	44								
		Total		34	100	1,500	100	3,302	100	208	100								

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a								
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
21a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One	21	72	800	76	2,143	76	100	64	25	74	1,177	79	2,514	76	153	73	
		More than one	8	28	250	24	688	24	56	36	9	26	321	21	782	24	57	27	
		Total	29	100	1,050	100	2,831	100	156	100	34	100	1,498	100	3,296	100	210	100	
First major or expected first major, in NSSE's default related-major categories. (This does not reflect any customization made for the Major Field Report.)	MAJfirstcol <i>(Recoded from MAJfirst.)</i>	Arts & Humanities	0	0	7	1	21	1	0	0	0	0	10	1	25	1	0	0	
		Biological Sci., Agriculture, & Natural Resources	1	3	25	2	67	2	10	6	2	6	24	2	74	2	7	3	
		Physical Sci., Mathematics, & Computer Science	23	79	879	83	2,155	76	127	81	30	88	1,274	84	2,616	79	172	82	
		Social Sciences	0	0	0	0	15	1	0	0	0	0	13	1	31	1	1	0	
		Business	2	7	5	0	40	1	1	1	0	0	19	1	34	1	1	0	
		Communications, Media, & Public Relations	0	0	0	0	3	0	0	0	0	0	1	0	2	0	0	0	
		Education	0	0	4	0	25	1	0	0	0	0	3	0	35	1	0	0	
		Engineering	1	3	38	4	31	1	10	6	2	6	51	3	48	1	18	9	
		Health Professions	0	0	11	1	14	0	4	3	0	0	6	0	18	1	2	1	
		Social Service Professions	0	0	5	0	22	1	1	1	0	0	4	0	19	1	0	0	
		All Other	2	7	83	8	449	16	3	2	0	0	103	7	418	13	9	4	
		Undecided, Undeclared	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	29	100	1,057	100	2,842	100	156	100	34	100	1,508	100	3,320	100	210	100	
Second major or expected second major, in NSSE's default related-major categories. (This does not reflect any customization made for the Major Field Report.)	MAJsecondcol <i>(Recoded from MAJsecond.)</i>	Arts & Humanities	0	0	14	6	55	8	4	7	0	0	17	5	47	6	1	2	
		Biological Sci., Agriculture, & Natural Resources	1	13	11	4	32	5	2	4	0	0	13	4	37	5	4	7	
		Physical Sci., Mathematics, & Computer Science	5	63	149	60	332	48	39	70	9	100	195	61	398	51	48	84	
		Social Sciences	0	0	3	1	17	2	0	0	0	0	17	5	42	5	0	0	
		Business	1	13	12	5	40	6	1	2	0	0	13	4	40	5	1	2	
		Communications, Media, & Public Relations	0	0	2	1	5	1	0	0	0	0	2	1	6	1	1	2	
		Education	0	0	8	3	33	5	0	0	0	0	4	1	47	6	0	0	
		Engineering	1	13	16	6	37	5	1	2	0	0	12	4	24	3	2	4	
		Health Professions	0	0	6	2	13	2	1	2	0	0	2	1	7	1	0	0	
		Social Service Professions	0	0	8	3	20	3	2	4	0	0	15	5	26	3	0	0	
		All Other	0	0	14	6	84	12	2	4	0	0	28	9	94	12	0	0	
		Undecided, Undeclared	0	0	5	2	19	3	4	7	0	0	2	1	12	2	0	0	
		Total	8	100	248	100	687	100	56	100	9	100	320	100	780	100	57	100	
22. What is your class level?	class	Freshman/First-year	23	79	885	85	2,411	86	125	80	2	6	2	0	10	0	1	0	
		Sophomore	6	21	134	13	298	11	28	18	0	0	26	2	31	1	4	2	
		Junior	0	0	21	2	56	2	3	2	2	6	149	10	298	9	11	5	
		Senior	0	0	1	0	7	0	0	0	28	85	1,287	86	2,866	87	192	92	
		Unclassified	0	0	2	0	42	1	0	0	1	3	33	2	81	2	1	0	
		Total	29	100	1,043	100	2,814	100	156	100	33	100	1,497	100	3,286	100	209	100	

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
23. Thinking about this current academic term, are you a full-time student?	fulltime	No	3	10	40	4	145	5	8	5	4	12	374	25	613	19	26	13
		Yes	26	90	998	96	2,652	95	147	95	29	88	1,115	75	2,661	81	180	87
		Total	29	100	1,038	100	2,797	100	155	100	33	100	1,489	100	3,274	100	206	100
24a. How many courses are you taking for credit this current academic term?	coursenum	0	1	3	3	0	19	1	1	1	0	0	29	2	80	2	2	1
		1	0	0	0	0	30	1	0	0	0	0	53	4	127	4	6	3
		2	2	7	17	2	44	2	6	4	1	3	120	8	299	9	6	3
		3	0	0	51	5	130	5	6	4	3	9	215	14	416	13	19	9
		4	7	24	308	30	778	28	39	25	10	30	484	32	929	28	73	35
		5	14	48	414	40	1,133	40	66	42	12	36	343	23	820	25	53	25
		6	3	10	153	15	389	14	21	13	5	15	150	10	322	10	32	15
		7 or more	2	7	97	9	292	10	17	11	2	6	101	7	295	9	17	8
		Total	29	100	1,043	100	2,815	100	156	100	33	100	1,495	100	3,288	100	208	100
b. Of these, how many are entirely online?	onlinenum	0	22	76	788	76	2,170	78	127	81	19	58	1,064	71	2,290	70	152	73
		1	7	24	181	17	301	11	20	13	6	18	281	19	485	15	44	21
		2	0	0	44	4	78	3	6	4	4	12	86	6	234	7	7	3
		3	0	0	16	2	36	1	2	1	4	12	32	2	111	3	3	1
		4	0	0	6	1	129	5	0	0	0	0	19	1	65	2	1	0
		5	0	0	1	0	30	1	0	0	0	0	2	0	19	1	0	0
		6	0	0	0	0	23	1	0	0	0	0	4	0	17	1	0	0
		7 or more	0	0	1	0	31	1	1	1	0	0	4	0	52	2	1	0
		Total	29	100	1,037	100	2,798	100	156	100	33	100	1,492	100	3,273	100	208	100
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum.)	onlinecscol	No courses taken online	22	76	788	76	2,170	78	127	81	19	58	1,064	71	2,290	70	152	73
		Some courses taken online	7	24	237	23	357	13	28	18	14	42	371	25	605	18	52	25
		All courses taken online	0	0	12	1	271	10	1	1	0	0	57	4	378	12	4	2
		Total	29	100	1,037	100	2,798	100	156	100	33	100	1,492	100	3,273	100	208	100
25. What have most of your grades been up to now at this institution?	grades	C- or lower	0	0	25	2	56	2	4	3	0	0	16	1	15	0	1	0
		C	0	0	27	3	65	2	2	1	1	3	43	3	90	3	5	2
		C+	1	3	49	5	107	4	4	3	1	3	96	6	143	4	8	4
		B-	2	7	57	5	155	6	9	6	2	6	128	9	194	6	15	7
		B	7	24	167	16	444	16	27	17	4	12	327	22	589	18	50	24
		B+	6	21	171	16	538	19	21	13	5	15	229	15	541	17	30	14
		A-	3	10	212	20	564	20	25	16	4	12	212	14	585	18	31	15
		A	10	34	333	32	878	31	64	41	16	48	444	30	1,120	34	68	33
		Total	29	100	1,041	100	2,807	100	156	100	33	100	1,495	100	3,277	100	208	100
26. Did you begin college at this institution or elsewhere?	begincol	Started here	26	90	938	90	2,471	88	131	84	23	70	651	44	1,648	50	110	53
		Started elsewhere	3	10	100	10	335	12	25	16	10	30	838	56	1,620	50	97	47
		Total	29	100	1,038	100	2,806	100	156	100	33	100	1,489	100	3,268	100	207	100

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
27. Since graduating from high school, which of the following types of schools have you attended <i>other than</i> the one you are now attending? (Select all that apply.)	attend_voc	Vocational or technical school	0	0	29	3	133	5	6	4	1	3	86	6	247	8	11	5
	attend_com	Community or junior college	2	7	137	13	308	11	26	17	8	24	844	57	1,454	45	97	47
	attend_col	4-year college or university other than this one	2	7	80	8	293	10	11	7	7	21	472	32	912	28	59	29
	attend_none	None	24	83	785	76	2,097	75	111	71	18	55	419	28	1,230	38	76	37
	attend_other	Other	0	0	36	3	119	4	5	3	2	6	49	3	144	4	5	2
28. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree	2	7	77	7	238	8	14	9	3	9	107	7	226	7	15	7
		Bachelor's degree (B.A., B.S., etc.)	13	45	390	38	1,069	38	52	34	8	24	557	37	1,178	36	60	29
		Master's degree (M.A., M.S., etc.)	8	28	317	31	948	34	47	30	9	27	468	31	1,092	33	64	31
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	6	21	254	24	550	20	42	27	13	39	357	24	772	24	68	33
		Total	29	100	1,038	100	2,805	100	155	100	33	100	1,489	100	3,268	100	207	100
29. What is the highest level of education completed by either of your parents (or those who raised you)?	parented	Did not finish high school	1	3	76	7	195	7	12	8	3	9	133	9	236	7	19	9
		High school diploma or G.E.D.	5	17	190	18	528	19	29	19	8	24	245	17	604	19	32	16
		Attended college, but did not complete degree	2	7	118	11	314	11	24	15	5	15	172	12	360	11	27	13
		Associate's degree (A.A., A.S., etc.)	5	17	76	7	249	9	16	10	0	0	107	7	335	10	20	10
		Bachelor's degree (B.A., B.S., etc.)	8	28	313	30	821	29	38	25	4	12	433	29	960	29	52	25
		Master's degree (M.A., M.S., etc.)	6	21	179	17	511	18	29	19	9	27	254	17	569	17	37	18
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	2	7	78	8	180	6	7	5	4	12	138	9	198	6	19	9
		Total	29	100	1,030	100	2,798	100	155	100	33	100	1,482	100	3,262	100	206	100
First-generation status (Neither parent holds a bachelor's degree.)	firstgen (Recorded from parented.)	Not first-generation	16	55	570	55	1,512	54	74	48	17	52	825	56	1,727	53	108	52
		First-generation	13	45	460	45	1,286	46	81	52	16	48	657	44	1,535	47	98	48
		Total	29	100	1,030	100	2,798	100	155	100	33	100	1,482	100	3,262	100	206	100
30. What is your gender identity?	genderid	Man	18	62	607	58	1,657	59	90	58	21	64	855	57	1,892	58	103	50
		Woman	9	31	397	38	1,053	38	60	38	10	30	586	39	1,230	38	96	46
		Another gender identity	2	7	18	2	44	2	4	3	0	0	17	1	57	2	4	2
		I prefer not to respond	0	0	16	2	50	2	2	1	2	6	31	2	86	3	4	2
		Total	29	100	1,038	100	2,804	100	156	100	33	100	1,489	100	3,265	100	207	100
31. Enter your year of birth (e.g., 1994):	agecat (Recorded from the information entered in birthyear.)	19 or younger	23	79	929	90	2,306	83	130	84	2	6	30	2	34	1	7	3
		20-23	6	21	73	7	200	7	14	9	24	75	818	55	1,858	57	130	63
		24-29	0	0	16	2	111	4	6	4	4	13	412	28	727	22	47	23
		30-39	0	0	7	1	97	3	4	3	1	3	154	10	394	12	15	7
		40-55	0	0	4	0	63	2	0	0	1	3	56	4	199	6	6	3
		Over 55	0	0	1	0	9	0	0	0	0	0	9	1	23	1	1	0
		Total	29	100	1,030	100	2,786	100	154	100	32	100	1,478	100	3,255	100	206	100

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a								
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
32a. Are you an international student? [If answered "yes"] Country of citizenship, collapsed into regions by NSSE. Responses to country are in the data file.	internat	No	19	66	963	94	2,633	94	150	96	32	97	1,381	93	3,106	95	186	90	
		Yes	10	34	65	6	163	6	6	4	1	3	104	7	150	5	21	10	
		Total	29	100	1,028	100	2,796	100	156	100	33	100	1,485	100	3,256	100	207	100	
	countrycol <i>(Recoded from country.)</i>	Africa Sub-Saharan	0	0	7	13	21	14	1	17	0	0	12	13	10	8	1	6	
		Asia	10	100	34	62	90	60	4	67	1	100	48	51	69	55	3	19	
		Canada	0	0	2	4	2	1	0	0	0	0	2	2	1	1	0	0	
		Europe	0	0	3	5	15	10	0	0	0	0	7	7	13	10	0	0	
		Latin America and Caribbean	0	0	7	13	16	11	1	17	0	0	19	20	25	20	12	75	
		Middle East and North Africa	0	0	2	4	5	3	0	0	0	0	6	6	7	6	0	0	
		Oceania	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	
Unknown region/uncoded		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	10	100	55	100	150	100	6	100	1	100	94	100	126	100	16	100			
33. How would you describe yourself? (Select all that apply.)	re_amin	American Indian or Alaska Native	2	7	34	3	62	2	7	5	0	0	53	4	68	2	2	1	
	re_asian	Asian	10	34	172	17	327	12	15	10	2	6	231	16	348	11	18	9	
	re_black	Black or African American	0	0	110	11	333	12	30	20	1	3	122	8	249	8	32	16	
	re_latino	Hispanic or Latina/o	10	34	309	30	478	17	30	20	9	27	383	26	474	15	45	22	
	re_mena	Middle Eastern or N. African (2019)	0	0	12	2	21	1	0	0	0	0	11	1	30	2	0	0	
	re_pacific	Native Hawaiian/Other Pac. Islander	0	0	13	1	27	1	1	1	0	0	15	1	24	1	3	1	
	re_white	White	11	38	520	51	1,743	62	92	60	22	67	790	53	2,130	66	125	61	
	re_another	Another race or ethnicity (2019)	1	3	8	1	26	2	1	1	0	0	14	2	35	2	2	2	
	re_other	Other (2018)	0	0	13	3	34	3	4	5	0	0	12	2	40	3	3	3	
	re_pnr	I prefer not to respond	0	0	22	2	86	3	3	2	1	3	57	4	173	5	6	3	
	Racial or ethnic identification	re_all19	American Indian or Alaska Native	0	0	9	1	12	0	1	1	0	0	21	1	16	0	0	0
		<i>(Items re_amin to re_pnr recoded where each student is represented only once)</i>	Asian	10	34	136	13	261	9	10	7	2	6	194	13	283	9	12	6
			Black or African American	0	0	87	8	258	9	24	16	1	3	99	7	195	6	27	13
Hispanic or Latina/o			7	24	216	21	334	12	18	12	7	21	272	18	333	10	28	14	
Middle Eastern or N. African (2019)			0	0	7	1	10	0	0	0	0	0	6	0	20	1	0	0	
Native Hawaiian/Other Pac. Islander			0	0	0	0	4	0	0	0	0	0	5	0	3	0	0	0	
White			7	24	373	36	1,515	54	72	47	20	61	624	42	1,908	59	102	50	
Another race or ethnicity (2019)			0	0	2	0	12	0	0	0	0	0	8	1	20	1	2	1	
Other (2018)			0	0	6	1	16	1	0	0	0	0	4	0	22	1	1	0	
Multiracial			5	17	169	16	284	10	25	16	2	6	191	13	276	8	28	14	
I prefer not to respond	0	0	22	2	86	3	3	2	1	3	57	4	173	5	6	3			
Total	29	100	1,027	100	2,792	100	153	100	33	100	1,481	100	3,249	100	206	100			
34. Are you a member of a social fraternity or sorority?	greek	No	29	100	982	95	2,660	95	144	94	30	91	1,386	93	3,043	93	181	87	
		Yes	0	0	52	5	134	5	10	6	3	9	101	7	225	7	26	13	
		Total	29	100	1,034	100	2,794	100	154	100	33	100	1,487	100	3,268	100	207	100	

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a										Seniors ^a									
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers					
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%				
35. Which of the following best describes where you are living while attending college?	living18	Campus housing (other than a fraternity or sorority house)	23	79	585	57	1,522	55	100	65	4	12	151	10	511	16	48	23				
		Fraternity or sorority house	0	0	3	0	13	0	1	1	0	0	5	0	11	0	1	0				
		House, apartment, or other residence within walking distance to campus	1	3	83	8	220	8	12	8	6	18	283	19	640	20	41	20				
		House, apartment, or other residence farther than walk. dist. to campus	5	17	352	34	795	29	40	26	23	70	1,003	68	1,791	55	114	55				
		Not applicable: No campus, entirely online program, etc.	0	0	5	0	227	8	0	0	0	0	27	2	283	9	1	0				
		Not applicable: Homeless or in transition	0	0	2	0	5	0	1	1	0	0	7	0	22	1	1	0				
		Total	29	100	1,030	100	2,782	100	154	100	33	100	1,476	100	3,258	100	206	100				
36. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No	29	100	997	97	2,567	92	145	94	32	97	1,461	99	3,120	96	205	99				
		Yes	0	0	35	3	218	8	9	6	1	3	18	1	134	4	2	1				
		Total	29	100	1,032	100	2,785	100	154	100	33	100	1,479	100	3,254	100	207	100				
37. Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard?	veteran	No	29	100	1,007	98	2,652	95	147	97	32	97	1,369	93	2,973	91	195	95				
		Yes	0	0	20	2	132	5	4	3	1	3	102	7	280	9	11	5				
		Total	29	100	1,027	100	2,784	100	151	100	33	100	1,471	100	3,253	100	206	100				
38a. Have you been diagnosed with any disability or impairment?	disability	No	26	90	870	84	2,301	82	129	84	26	79	1,243	84	2,674	82	176	85				
		Yes	2	7	121	12	372	13	18	12	5	15	184	12	447	14	25	12				
		I prefer not to respond	1	3	43	4	119	4	7	5	2	6	56	4	136	4	6	3				
		Total	29	100	1,034	100	2,792	100	154	100	33	100	1,483	100	3,257	100	207	100				
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense	A sensory impairment (vision or hearing)	1	50	26	22	62	17	6	33	1	20	23	13	71	16	1	4				
	dis_mobility	A mobility impairment	0	0	7	6	23	6	1	6	1	20	13	7	42	10	3	12				
	dis_learning	A learning disability (e.g., ADHD, dyslexia)	1	50	58	48	202	54	9	50	3	60	82	45	187	43	10	40				
	dis_mental	A mental health disorder	0	0	47	39	159	43	7	39	0	0	95	52	201	46	10	40				
	dis_other	A disability or impairment not listed above	1	50	22	18	63	17	4	22	2	40	36	20	86	20	5	20				
Disability or impairment	disability_all	A sensory impairment	0	0	14	1	31	1	4	3	1	3	7	0	36	1	0	0				
	(Items dis_sense to dis_other recoded where each student is represented only once.)	A mobility impairment	0	0	2	0	8	0	0	0	0	0	6	0	20	1	3	1				
		A learning disability	0	0	32	3	109	4	5	3	2	6	44	3	110	3	7	3				
		A mental health disorder	0	0	23	2	82	3	2	1	0	0	50	3	110	3	6	3				
		A disability or impairment not listed	1	3	13	1	31	1	1	1	1	3	18	1	52	2	5	2				
		More than one disability or impairment	1	3	36	3	110	4	6	4	1	3	56	4	112	3	4	2				
		No disability or impairment	26	90	870	84	2,301	82	129	84	26	79	1,243	84	2,674	82	176	85				
	Prefer not to respond	1	3	43	4	119	4	7	5	2	6	56	4	136	4	6	3					

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
			Total	29	100	1,033	100	2,791	100	154	100	33	100	1,480	100	3,250	100	207

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
			39. Which of the following best describes your sexual orientation?	sexorient17	Straight (heterosexual)	24	83	807	78	2,275	81	132	86	28	85	1,193	80	2,616
		Bisexual	2	7	78	8	188	7	5	3	3	9	79	5	178	5	9	4
		Gay	0	0	22	2	49	2	3	2	0	0	45	3	91	3	3	1
		Lesbian	0	0	12	1	28	1	1	1	0	0	19	1	33	1	2	1
		Queer	0	0	6	1	17	1	2	1	0	0	13	1	22	1	3	1
		Questioning or unsure	0	0	22	2	34	1	2	1	0	0	16	1	30	1	1	0
		Another sexual orientation	2	7	18	2	52	2	2	1	0	0	29	2	64	2	5	2
		I prefer not to respond	1	3	64	6	154	6	7	5	2	6	91	6	226	7	8	4
		Total	29	100	1,029	100	2,797	100	154	100	33	100	1,485	100	3,260	100	208	100

Institution-reported information (Variables provided by your institution in your NSSE population file.)

Institution-reported: Sex	IRsex19	Female	8	28	421	40	1,093	38	63	40	12	35	615	41	1,292	39	100	48
		Male	21	72	636	60	1,748	61	93	60	22	65	893	59	2,019	61	110	52
		Another	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Unknown	0	0	0	0	4	0	0	0	0	0	0	0	7	0	0	0
		Total	29	100	1,057	100	2,845	100	156	100	34	100	1,508	100	3,318	100	210	100
Institution-reported: Race or ethnicity	IRrace	American Indian or Alaska Native	0	0	10	1	10	0	2	2	0	0	22	2	19	1	0	0
		Asian	0	0	111	11	182	7	5	4	1	3	147	10	220	7	6	4
		Black or African American	0	0	73	7	246	9	16	14	1	3	85	6	176	6	13	8
		Hispanic or Latino	10	34	319	32	394	15	28	24	9	26	380	27	417	14	33	21
		Native Hawaiian/Other Pac. Islander	0	0	1	0	4	0	0	0	0	0	2	0	3	0	0	0
		White	9	31	368	36	1,414	54	57	49	20	59	619	43	1,855	61	87	54
		Other	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
		Foreign or nonresident	10	34	57	6	147	6	3	3	2	6	101	7	135	4	17	11
		Two or more races/ethnicities	0	0	57	6	91	3	5	4	1	3	50	3	104	3	3	2
		Unknown	0	0	16	2	127	5	1	1	0	0	26	2	126	4	1	1
		Total	29	100	1,012	100	2,615	100	117	100	34	100	1,432	100	3,059	100	160	100
Institution-reported: Class level	IRclass	Freshman/First-Year	29	100	1,057	100	2,845	100	156	100	0	0	0	0	0	0	0	0
		Sophomore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Senior	0	0	0	0	0	0	0	0	34	100	1,508	100	3,320	100	210	100
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	29	100	1,057	100	2,845	100	156	100	34	100	1,508	100	3,320	100	210	100
Institution-reported: First-time first-year (FTFY) student	IRftfy	Not first-time first-year	5	17	118	11	465	16	26	17	34	100	1,488	99	3,295	99	210	100
		First-time first-year	24	83	939	89	2,380	84	130	83	0	0	20	1	25	1	0	0
		Total	29	100	1,057	100	2,845	100	156	100	34	100	1,508	100	3,320	100	210	100
Institution-reported: Enrollment status	IRenrollment	Not full-time	1	3	54	5	131	5	9	6	2	6	364	24	553	17	23	11
		Full-time	28	97	1,003	95	2,714	95	147	94	32	94	1,144	76	2,767	83	187	89

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Phys Sci, Math, CS

Angelo State University

Phys Sci, Math, CS

First-Year Students^a





Seniors^a

Item wording or description	Variable name	Response options	ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
			Total	29	100	1,057	100	2,845	100	156	100	34	100	1,508	100	3,320	100	210

Endnotes

- a. All results are unweighted.
- 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 is the range of values that is 95% likely to contain the true population mean, equal to the sample mean $\pm 1.96 * SEM$.
- 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 differ from Ns due to 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: $*p < .05$, $**p < .01$, $***p < .001$ (2-tailed).
- g. Cohen's d : The mean difference divided by the pooled standard deviation. 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.
- h. Percentage of students who responded "Done or in progress" except for service-learning which is the percentage who responded that at least "Some" courses included a community-based project.
- i. Percentage point differences (institution – comp. group) rounded to whole numbers. Values less than one may not display a bar and may be shown as +0 or -0.
 $*p < .05$, $**p < .01$, $***p < .001$ (z -test comparing participation rates).
- j. Cohen's h : The standardized difference between two proportions. Effect size indicates the practical importance of an observed difference. NSSE research has found that interpretations vary by HIP: For service-learning, internships, study abroad, and culminating senior experiences, an effect size of about .2 may be considered small, .5 medium, and .8 large. For learning community and research with faculty, an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015).
- k. Means calculated from ordered response options (e.g., Very Often, Often, Sometimes, Never) assume equal intervals and should be interpreted with caution. Unless otherwise noted, statistical comparisons are two-tailed independent t -tests. Exceptions are the dichotomous high-impact practice items (11a to 11f) which are compared using a z -test.
- l. Items that make up the Engagement Indicators include the following two-letter prefixes: CL = Collaborative Learning, DD = Discussions with Diverse Others, ET = Effective Teaching Practices, HO = Higher-Order Learning, LS = Learning Strategies, QI = Quality of Interactions, QR = Quantitative Reasoning, RI = Reflective and Integrative Learning, SE = Supportive Environment, and SF = Student-Faculty Interaction.
- m. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook. For items estimating number of papers and hours per week, the values represent actual units using the midpoints of response option ranges and an estimate for unbounded options.
- n. Effect size for independent t -tests uses Cohen's d ; z -tests use Cohen's h .
- o. Statistical comparison uses z -test to compare the percentage who responded "Done or in progress."

Key to symbols:

-  **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.
-  **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.

Endnotes

Note: It is important to interpret the direction of differences relative to item wording and your institutional context.

Reference: 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.
