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# Angelo State University

## NSSE 2019 Major Field Report, Part II

### Comparisons to Other Institutions

# Biology

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*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 'Biology' includes the following majors: Biochemistry or biophysics; Biology (general); Biomedical science; Botany; Cell and molecular biology; Environmental science/studies; Marine science; Microbiology or bacteriology; Natural science; Neuroscience; Other biological sciences; Physiology and developmental biology; Zoology.*

*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: Biology.

#### 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<sup>a</sup> 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 Biology

#### Seniors in Biology

Theme	Engagement Indicator	First-Year Students in Biology			Seniors in Biology		
		Your first-year students compared with Southwest Public	Your first-year students compared with Carnegie Class	Your first-year students compared with SACSCOC Peers	Your seniors compared with Southwest Public	Your seniors compared with Carnegie Class	Your seniors compared with 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: Biology

### Angelo State University

#### First-year students<sup>a</sup> in Biology

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Academic Challenge</b>												
<b>Higher-Order Learning</b>												
ASU (N = 23)	43.7	11.3	2.36	25	40	45	50	60				
Southwest Public	39.1	13.5	.33	20	30	40	50	60	1,711	4.6		.343
Carnegie Class	39.7	12.8	.20	20	30	40	50	60	4,028	4.0		.314
SACSCOC Peers	40.2	13.4	.82	20	30	40	50	60	291	3.5		.263
<b>Reflective &amp; Integrative Learning</b>												
ASU (N = 23)	35.5	7.9	1.65	23	31	37	40	49				
Southwest Public	34.6	11.6	.28	17	26	34	43	57	23	1.0		.084
Carnegie Class	35.6	11.8	.19	17	29	34	43	57	23	.0		-.004
SACSCOC Peers	35.7	12.2	.74	17	29	34	43	57	32	-.1		-.012
<b>Learning Strategies</b>												
ASU (N = 23)	39.7	12.5	2.60	20	27	40	53	53				
Southwest Public	38.2	14.0	.34	13	27	40	47	60	1,713	1.5		.105
Carnegie Class	40.0	13.4	.21	20	33	40	53	60	4,026	-.3		-.024
SACSCOC Peers	40.7	13.7	.84	13	33	40	53	60	291	-1.0		-.074
<b>Quantitative Reasoning</b>												
ASU (N = 23)	33.6	12.9	2.70	7	27	33	40	53				
Southwest Public	29.5	15.3	.37	7	20	27	40	60	1,699	4.1		.270
Carnegie Class	30.3	14.9	.24	7	20	27	40	60	4,013	3.3		.219
SACSCOC Peers	30.6	15.9	.96	7	20	27	40	60	293	3.0		.192
<b>Learning with Peers</b>												
<b>Collaborative Learning</b>												
ASU (N = 23)	35.9	11.1	2.32	20	25	35	40	55				
Southwest Public	36.1	13.9	.34	15	25	35	45	60	1,726	-.3		-.019
Carnegie Class	35.7	14.0	.22	15	25	35	45	60	4,050	.2		.013
SACSCOC Peers	37.8	14.0	.85	15	30	40	50	60	292	-1.9		-.138
<b>Discussions with Diverse Others</b>												
ASU (N = 23)	38.9	15.7	3.27	15	30	40	50	60				
Southwest Public	40.5	16.1	.39	15	30	40	60	60	1,717	-1.6		-.098
Carnegie Class	39.9	15.4	.24	15	30	40	55	60	4,017	-1.0		-.064

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

## Engagement Indicators: Biology

### Angelo State University

#### First-year students<sup>a</sup> in Biology

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
SACSCOC Peers	39.6	16.6	1.01	15	25	40	55	60	291	-.7		-.043
<b>Experiences with Faculty</b>												
<b>Student-Faculty Interaction</b>												
ASU (N = 23)	29.3	14.1	2.94	10	15	30	45	50				
Southwest Public	20.7	14.8	.36	0	10	20	30	50	1,708	8.6	**	.581
Carnegie Class	23.2	14.6	.23	0	10	20	30	50	4,021	6.1	*	.419
SACSCOC Peers	22.8	16.0	.97	0	10	20	35	55	292	6.6		.415
<b>Effective Teaching Practices</b>												
ASU (N = 23)	41.2	9.9	2.07	28	32	40	48	60				
Southwest Public	37.6	13.2	.32	16	28	40	48	60	1,725	3.6		.275
Carnegie Class	39.1	12.9	.20	20	32	40	48	60	4,064	2.1		.166
SACSCOC Peers	38.3	13.6	.82	16	28	40	48	60	295	2.9		.215
<b>Campus Environment</b>												
<b>Quality of Interactions</b>												
ASU (N = 23)	45.3	9.4	1.96	30	40	48	52	56				
Southwest Public	41.1	12.7	.31	16	34	42	50	60	23	4.2	*	.329
Carnegie Class	42.6	11.8	.19	22	36	44	50	60	3,909	2.7		.225
SACSCOC Peers	41.4	12.4	.77	16	34	42	50	60	285	3.9		.320
<b>Supportive Environment</b>												
ASU (N = 23)	35.4	10.4	2.16	18	25	38	45	48				
Southwest Public	37.2	13.4	.33	15	28	38	48	60	1,717	-1.8		-.136
Carnegie Class	37.6	13.4	.21	15	28	38	48	60	4,037	-2.2		-.165
SACSCOC Peers	37.4	12.8	.78	18	30	38	45	60	292	-2.0		-.155

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

## Engagement Indicators: Biology

### Angelo State University

#### First-year students<sup>a</sup> in Biology

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



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

## Engagement Indicators: Biology

### Angelo State University

## Seniors<sup>a</sup> in Biology

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
<b>Academic Challenge</b>												
<b>Higher-Order Learning</b>												
ASU (N = 20)	39.8	8.2	1.83	25	35	40	45	55				
Southwest Public	38.9	13.9	.31	15	30	40	50	60	20	.8		.058
Carnegie Class	40.6	13.2	.21	20	30	40	50	60	19	-.9		-.065
SACSCOC Peers	39.9	14.0	.84	20	30	40	50	60	28	-.2		-.012
<b>Reflective &amp; Integrative Learning</b>												
ASU (N = 20)	37.9	8.7	1.95	24	31	37	46	53				
Southwest Public	36.1	12.2	.27	17	29	37	43	60	1,994	1.8		.146
Carnegie Class	36.9	11.9	.19	17	29	37	46	57	4,085	.9		.079
SACSCOC Peers	35.1	11.3	.68	17	29	34	43	54	297	2.8		.250
<b>Learning Strategies</b>												
ASU (N = 20)	40.3	12.7	2.84	20	30	40	47	60				
Southwest Public	39.8	14.1	.32	20	27	40	53	60	1,974	.5		.039
Carnegie Class	40.9	13.8	.22	20	33	40	53	60	4,057	-.6		-.043
SACSCOC Peers	39.9	13.8	.83	20	33	40	53	60	296	.5		.033
<b>Quantitative Reasoning</b>												
ASU (N = 20)	32.7	15.3	3.42	10	20	30	40	60				
Southwest Public	31.5	15.1	.34	7	20	33	40	60	1,966	1.2		.078
Carnegie Class	34.2	15.2	.24	7	20	33	40	60	4,044	-1.5		-.100
SACSCOC Peers	31.9	15.8	.95	7	20	33	40	60	293	.8		.048
<b>Learning with Peers</b>												
<b>Collaborative Learning</b>												
ASU (N = 20)	36.3	12.7	2.83	18	25	35	45	55				
Southwest Public	35.4	14.6	.33	15	25	35	45	60	1,989	.9		.058
Carnegie Class	36.4	14.1	.22	15	25	35	45	60	4,068	-.1		-.009
SACSCOC Peers	35.9	13.7	.82	15	25	35	45	60	297	.3		.023
<b>Discussions with Diverse Others</b>												
ASU (N = 20)	42.0	13.6	3.04	18	35	40	53	60				
Southwest Public	42.0	16.0	.36	15	30	40	60	60	1,965	.0		-.001
Carnegie Class	41.5	15.3	.24	15	30	40	55	60	4,034	.5		.033

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

## Engagement Indicators: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

	Mean statistics			Percentile <sup>d</sup> scores					Comparison results			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	5th	25th	50th	75th	95th	Deg. of freedom <sup>e</sup>	Mean diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
SACSCOC Peers	40.6	17.0	1.02	10	30	40	60	60	295	1.4		.080
<b>Experiences with Faculty</b>												
<b>Student-Faculty Interaction</b>												
ASU (N = 20)	29.0	16.2	3.62	8	18	25	38	60				
Southwest Public	24.0	16.2	.37	0	10	20	35	55	1,972	5.0		.308
Carnegie Class	28.6	16.2	.25	5	15	25	40	60	4,044	.4		.022
SACSCOC Peers	26.1	15.8	.96	0	15	25	40	55	292	2.9		.180
<b>Effective Teaching Practices</b>												
ASU (N = 20)	41.0	12.8	2.87	18	30	42	50	60				
Southwest Public	38.4	13.4	.30	16	28	40	48	60	1,993	2.6		.196
Carnegie Class	40.7	13.1	.21	16	32	40	52	60	4,080	.3		.022
SACSCOC Peers	39.2	13.5	.81	16	32	40	48	60	297	1.8		.135
<b>Campus Environment</b>												
<b>Quality of Interactions</b>												
ASU (N = 19)	47.3	10.8	2.48	18	42	48	58	60				
Southwest Public	41.1	12.2	.28	18	34	42	50	60	1,899	6.2	*	.506
Carnegie Class	42.4	11.5	.18	22	36	44	50	60	3,940	4.9		.427
SACSCOC Peers	41.9	12.7	.78	16	34	44	50	60	280	5.4		.432
<b>Supportive Environment</b>												
ASU (N = 20)	35.4	12.9	2.88	11	28	36	45	53				
Southwest Public	33.4	14.2	.32	10	23	33	43	60	1,979	2.0		.141
Carnegie Class	33.7	13.9	.22	10	23	33	43	60	4,055	1.7		.124
SACSCOC Peers	32.2	14.5	.87	8	20	33	43	60	294	3.2		.223

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

## Engagement Indicators: Biology

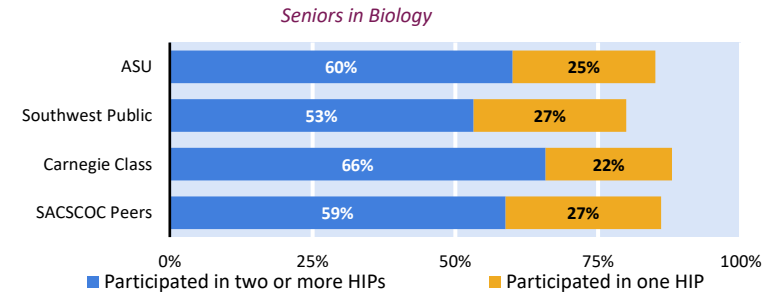
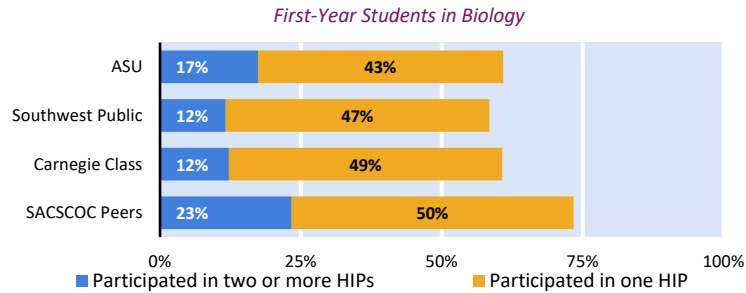
### Angelo State University

#### Seniors<sup>a</sup> in Biology

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

### Overall HIP Participation<sup>a,h</sup>

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 <sup>i</sup>	ES <sup>j</sup>	Difference <sup>i</sup>	ES <sup>j</sup>	Difference <sup>i</sup>	ES <sup>j</sup>	
<i>First-Year Students in Biology</i>								
12. Service-Learning	61	+9	.18	+7	.14	-5	-.10	
11c. Learning Community	13	-1	-.02	-1	-.02	-15	-.37	
11e. Research with Faculty	9	+2	.09	+2	.08	+3	.11	
<b>Participated in at least one</b>	61	+2	.05	+0	.00	-12	-.27	
<b>Participated in two or more</b>	17	+6	.16	+5	.15	-6	-.15	
<i>Seniors in Biology</i>								
12. Service-Learning	55	+6	.12	-3	-.07	-5	-.11	
11c. Learning Community	30	+8	.19	+5	.11	+4	.10	
11e. Research with Faculty	45	+8	.17	+1	.02	+10	.21	
11a. Internship or Field Exp.	40	+1	.02	-7	-.14	-1	-.01	
11d. Study Abroad	15	+2	.06	+0	.00	+5	.14	
11f. Culminating Senior Exp.	40	+7	.15	-8	-.16	+12	.25	
<b>Participated in at least one</b>	85	+5	.13	-3	-.08	-1	-.03	

*Participated in two or more*



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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	<i>Your first-year students compared with</i>															
<b>1. During the current school year, about how often have you done the following?</b>																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	1	4	105	6	116	3	8	3	<b>2.8</b>	2.7	.13	2.9	-.10	2.8	-.04	
		2	Sometimes	6	26	696	40	1,385	34	101	37								
		3	Often	13	57	579	34	1,478	36	99	36								
		4	Very often	3	13	340	20	1,072	26	67	24								
		Total		23	100	1,720	100	4,051	100	275	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	2	9	329	19	583	14	48	18	<b>2.9</b>	2.4 *	.48	2.6	.37	2.5 *	.46	
		2	Sometimes	5	22	594	35	1,424	35	93	34								
		3	Often	9	39	493	29	1,262	31	89	32								
		4	Very often	7	30	295	17	783	19	44	16								
		Total		23	100	1,711	100	4,052	100	274	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	0	0	77	4	152	4	9	3	<b>3.4</b>	3.0 **	.55	3.1	.40	3.1 *	.54	
		2	Often	1	4	208	12	437	11	35	13								
		3	Sometimes	11	48	1,015	59	2,177	54	160	59								
		4	Never	11	48	412	24	1,282	32	67	25								
		Total		23	100	1,712	100	4,048	100	271	100								
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendant	1	Never	7	30	737	43	1,579	39	96	35	<b>2.0</b>	1.8	.23	1.9	.15	2.0	.01	
		2	Sometimes	11	48	668	39	1,678	41	103	38								
		3	Often	3	13	227	13	550	14	53	19								
		4	Very often	2	9	84	5	249	6	20	7								
		Total		23	100	1,716	100	4,056	100	272	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	1	4	104	6	244	6	12	4	<b>2.9</b>	2.8	.07	2.8	.10	2.9	-.07	
		2	Sometimes	8	35	541	31	1,369	34	75	27								
		3	Often	7	30	656	38	1,489	37	108	39								
		4	Very often	7	30	419	24	956	24	79	29								
		Total		23	100	1,720	100	4,058	100	274	100								
f. Explained course material to one or more students	CLexplain	1	Never	0	0	58	3	139	3	7	3	<b>3.1</b>	2.9 *	.31	2.9 *	.31	3.0	.22	
		2	Sometimes	2	9	505	29	1,234	30	73	27								
		3	Often	16	70	741	43	1,666	41	118	43								
		4	Very often	5	22	410	24	1,017	25	75	27								
		Total		23	100	1,714	100	4,056	100	273	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Mean		Mean		Effect size <sup>n</sup>	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	4	17	180	10	455	11	28	10	2.5	2.7	-.27	2.7	-.24	2.7	-.27	
		2	Sometimes	8	35	534	31	1,294	32	87	32								
		3	Often	7	30	552	32	1,281	32	87	32								
		4	Very often	4	17	451	26	1,029	25	72	26								
		Total		23	100	1,717	100	4,059	100	274	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	0	0	81	5	231	6	12	4	2.7	2.8	-.13	2.8	-.10	2.9	-.28	
		2	Sometimes	11	48	569	33	1,352	33	76	28								
		3	Often	8	35	675	39	1,557	38	104	38								
		4	Very often	4	17	395	23	913	23	83	30								
		Total		23	100	1,720	100	4,053	100	275	100								
i. Given a course presentation	present	1	Never	3	13	343	20	742	18	40	15	2.3	2.2	.08	2.3	.01	2.4	-.15	
		2	Sometimes	13	57	800	47	1,825	45	109	40								
		3	Often	4	17	403	23	1,032	25	86	32								
		4	Very often	3	13	170	10	451	11	37	14								
		Total		23	100	1,716	100	4,050	100	272	100								
<b>2. During the current school year, about how often have you done the following?</b>																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	2	9	184	11	306	8	28	10	2.6	2.5	.09	2.6	-.01	2.6	.03	
		2	Sometimes	7	30	675	39	1,555	38	99	36								
		3	Often	12	52	621	36	1,555	38	105	38								
		4	Very often	2	9	234	14	631	16	41	15								
		Total		23	100	1,714	100	4,047	100	273	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	2	9	204	12	395	10	37	14	2.5	2.5	-.03	2.6	-.13	2.5	-.05	
		2	Sometimes	9	41	693	41	1,578	39	102	37								
		3	Often	10	45	600	35	1,461	36	97	35								
		4	Very often	1	5	213	12	617	15	38	14								
		Total		22	100	1,710	100	4,051	100	274	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	2	9	212	12	453	11	33	12	2.3	2.5	-.21	2.5	-.27	2.6	-.28	
		2	Sometimes	13	57	690	40	1,600	39	103	38								
		3	Often	7	30	560	33	1,318	33	87	32								
		4	Very often	1	4	246	14	680	17	49	18								
		Total		23	100	1,708	100	4,051	100	272	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Your first-year students compared with															
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	2	9	95	6	190	5	11	4	2.8	2.7	.04	2.8	-.01	2.8	-.05	
		2	Sometimes	5	23	555	32	1,270	31	85	31								
		3	Often	11	50	760	44	1,840	45	120	44								
		4	Very often	4	18	298	17	750	19	56	21								
		Total		22	100	1,708	100	4,050	100	272	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	1	4	45	3	106	3	5	2	2.9	3.0	-.11	3.0	-.11	3.0	-.21	
		2	Sometimes	6	26	418	24	1,022	25	63	23								
		3	Often	11	48	813	48	1,869	46	121	45								
		4	Very often	5	22	433	25	1,055	26	82	30								
		Total		23	100	1,709	100	4,052	100	271	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	0	0	41	2	90	2	6	2	3.2	2.9	.39	2.9	.35	2.9	.32	
		2	Sometimes	2	9	487	29	1,158	29	78	28								
		3	Often	15	65	814	48	1,847	46	120	44								
		4	Very often	6	26	364	21	941	23	70	26								
		Total		23	100	1,706	100	4,036	100	274	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	0	0	18	1	47	1	3	1	3.2	3.0	.25	3.1	.18	3.1	.19	
		2	Sometimes	4	17	368	22	782	19	59	22								
		3	Often	10	43	859	50	1,997	49	126	46								
		4	Very often	9	39	461	27	1,212	30	86	31								
		Total		23	100	1,706	100	4,038	100	274	100								
<b>3. During the current school year, about how often have you done the following?</b>																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	0	0	339	20	597	15	48	18	2.7	2.3 *	.47	2.4	.31	2.4 *	.40	
		2	Sometimes	9	39	751	44	1,691	42	123	45								
		3	Often	11	48	390	23	1,105	27	59	22								
		4	Very often	3	13	230	13	650	16	44	16								
		Total		23	100	1,710	100	4,043	100	274	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	6	26	802	47	1,786	44	107	39	2.3	1.8 *	.51	1.9 *	.45	2.0	.36	
		2	Sometimes	7	30	533	31	1,302	32	98	36								
		3	Often	7	30	244	14	618	15	42	15								
		4	Very often	3	13	127	7	327	8	26	10								
		Total		23	100	1,706	100	4,033	100	273	100								



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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Your first-year students compared with															
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	4	17	591	35	1,118	28	92	34	2.3	2.0	.37	2.1	.21	2.0	.27	
		2	Sometimes	10	43	690	41	1,694	42	103	38								
		3	Often	7	30	296	17	877	22	51	19								
		4	Very often	2	9	123	7	351	9	27	10								
		Total		23	100	1,700	100	4,040	100	273	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	4	17	496	29	877	22	74	27	2.5	2.1 *	.50	2.2	.33	2.2	.32	
		2	Sometimes	7	30	727	43	1,773	44	103	38								
		3	Often	8	35	343	20	1,007	25	62	23								
		4	Very often	4	17	139	8	389	10	34	12								
		Total		23	100	1,705	100	4,046	100	273	100								
<b>4. During the current school year, how much has your coursework emphasized the following?</b>																			
a. Memorizing course material	memorize	1	Very little	0	0	44	3	80	2	8	3	3.2	3.1	.13	3.1	.07	3.0	.18	
		2	Some	3	13	337	20	765	19	59	22								
		3	Quite a bit	13	57	777	45	1,805	45	124	45								
		4	Very much	7	30	550	32	1,394	34	83	30								
		Total		23	100	1,708	100	4,044	100	274	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	0	0	58	3	89	2	5	2	3.2	3.0	.19	3.1	.16	3.0	.23	
		2	Some	4	17	381	22	842	21	76	28								
		3	Quite a bit	11	48	734	43	1,876	46	109	40								
		4	Very much	8	35	532	31	1,234	31	84	31								
		Total		23	100	1,705	100	4,041	100	274	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	0	0	51	3	106	3	5	2	3.5	3.0 **	.67	3.0 **	.64	3.0 **	.69	
		2	Some	2	9	407	24	923	23	69	25								
		3	Quite a bit	7	30	771	45	1,820	45	123	45								
		4	Very much	14	61	481	28	1,185	29	77	28								
		Total		23	100	1,710	100	4,034	100	274	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	2	9	77	5	129	3	8	3	3.0	2.9	.09	2.9	.03	3.0	-.06	
		2	Some	4	17	470	28	1,055	26	66	24								
		3	Quite a bit	10	43	725	43	1,816	45	113	42								
		4	Very much	7	30	426	25	1,036	26	84	31								
		Total		23	100	1,698	100	4,036	100	271	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>		
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Your first-year students compared with															
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	1	4	69	4	126	3	5	2	3.1	2.9	.21	2.9	.19	3.0	.06	
		2	Some	2	9	436	26	1,038	26	64	23								
		3	Quite a bit	14	61	771	45	1,843	46	120	44								
		4	Very much	6	26	430	25	1,039	26	84	31								
		Total		23	100	1,706	100	4,046	100	273	100								
<b>5. During the current school year, to what extent have your instructors done the following?</b>																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	0	0	39	2	89	2	4	1	3.3	3.1	.32	3.1	.28	3.1	.30	
		2	Some	2	9	357	21	765	19	58	21								
		3	Quite a bit	12	52	772	45	1,898	47	124	45								
		4	Very much	9	39	534	31	1,290	32	88	32								
		Total		23	100	1,702	100	4,042	100	274	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	0	0	67	4	139	3	13	5	3.2	3.0	.32	3.0	.25	3.0	.28	
		2	Some	4	17	425	25	876	22	58	21								
		3	Quite a bit	10	43	728	43	1,812	45	123	45								
		4	Very much	9	39	483	28	1,205	30	80	29								
		Total		23	100	1,703	100	4,032	100	274	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	1	4	54	3	108	3	4	1	3.3	3.1	.25	3.1	.20	3.1	.20	
		2	Some	1	4	363	21	777	19	62	23								
		3	Quite a bit	12	52	716	42	1,747	43	109	40								
		4	Very much	9	39	562	33	1,398	35	97	36								
		Total		23	100	1,695	100	4,030	100	272	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	2	9	169	10	302	7	23	8	2.8	2.7	.08	2.8	-.06	2.7	.06	
		2	Some	8	35	540	32	1,119	28	92	34								
		3	Quite a bit	6	26	617	36	1,564	39	96	35								
		4	Very much	7	30	375	22	1,052	26	63	23								
		Total		23	100	1,701	100	4,037	100	274	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	1	4	197	12	327	8	31	11	2.7	2.6	.12	2.7	.01	2.7	.04	
		2	Some	9	39	562	33	1,287	32	82	30								
		3	Quite a bit	8	35	621	37	1,545	38	97	36								
		4	Very much	5	22	321	19	870	22	63	23								
		Total		23	100	1,701	100	4,029	100	273	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Your first-year students compared with															
<b>6. During the current school year, about how often have you done the following?</b>																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	1	4	125	7	245	6	18	7	2.9	2.7	.19	2.8	.14	2.7	.21	
		2	Sometimes	6	26	562	33	1,270	31	103	38								
		3	Often	11	48	687	41	1,738	43	97	36								
		4	Very often	5	22	320	19	779	19	55	20								
		Total		23	100	1,694	100	4,032	100	273	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	2	9	352	21	744	18	43	16	2.6	2.3	.27	2.4	.26	2.5	.16	
		2	Sometimes	8	35	623	37	1,575	39	105	39								
		3	Often	10	43	498	29	1,172	29	80	29								
		4	Very often	3	13	222	13	532	13	44	16								
		Total		23	100	1,695	100	4,023	100	272	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	3	13	277	16	618	15	43	16	2.6	2.4	.22	2.4	.16	2.4	.14	
		2	Sometimes	8	35	708	42	1,582	39	108	39								
		3	Often	8	35	518	31	1,313	33	84	31								
		4	Very often	4	17	192	11	502	13	39	14								
		Total		23	100	1,695	100	4,015	100	274	100								
<b>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.)</b>																			
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	3	13	153	9	235	6	27	10	5.6	5.6	-.01	6.6	-.18	5.2	.08	
		1.5	1-2	4	17	400	24	811	20	73	27								
		4	3-5	9	39	584	34	1,287	32	91	33								
		8	6-10	4	17	315	19	911	23	48	18								
		13	11-15	1	4	138	8	429	11	20	7								
		18	16-20	1	4	52	3	151	4	6	2								
		23	More than 20	1	4	58	3	205	5	8	3								
Total		23	100	1,700	100	4,029	100	273	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	13	57	765	45	1,425	35	125	46	1.2	2.0	-.26	2.4	-.35	1.8	-.24	
		1.5	1-2	7	30	544	32	1,471	37	90	33								
		4	3-5	2	9	236	14	687	17	33	12								
		8	6-10	1	4	101	6	290	7	18	7								
		13	11-15	0	0	38	2	89	2	5	2								
		18	16-20	0	0	5	0	28	1	1	0								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

		Frequency Distributions								Statistical Comparisons <sup>k</sup>								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count		Count		Count		Count		Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
					%		%		%		%							
		23	More than 20	0	0	7	0	31	1	0	0							
			Total	23	100	1,696	100	4,021	100	272	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

Item wording or description				Frequency Distributions								Statistical Comparisons <sup>k</sup>																			
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers													
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>												
<i>Estimated number of assigned pages of student writing.</i>												<i>Your first-year students compared with</i>																			
c. 11 pages or more												<b>1.3</b>		.8		.18		.9		.11		.8		.16							
wrlongnum 0 None				19 83		1,371 81		3,060 76		221 82																					
<i>(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)</i>																															
1.5 1-2				2 9		201 12		648 16		31 11																					
4 3-5				0 0		58 3		143 4		8 3																					
8 6-10				1 4		31 2		72 2		4 1																					
13 11-15				0 0		31 2		57 1		5 2																					
18 16-20				1 4		3 0		18 0		1 0																					
23 More than 20				0 0		5 0		26 1		1 0																					
Total				23 100		1,700 100		4,024 100		271 100																					
wrpages												<b>44.8</b>		44.1		.01		52.7		-.11		40.4		.07							
<i>(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)</i>																															
<b>8. During the current school year, about how often have you had discussions with people from the following groups?</b>																															
a. People of a race or ethnicity other than your own												<b>2.9</b>		3.1		-.22		3.1		-.16		3.1		-.17							
DDrace 1 Never				1 4		92 5		186 5		20 7																					
2 Sometimes				7 30		356 21		975 24		53 20																					
3 Often				8 35		526 31		1,288 32		85 31																					
4 Very often				7 30		730 43		1,582 39		113 42																					
Total				23 100		1,704 100		4,031 100		271 100																					
b. People from an economic background other than your own												<b>3.1</b>		3.1		.09		3.0		.10		3.0		.11							
DDeconomic 1 Never				1 4		79 5		179 4		13 5																					
2 Sometimes				5 22		405 24		935 23		64 23																					
3 Often				7 30		570 33		1,447 36		98 36																					
4 Very often				10 43		650 38		1,461 36		98 36																					
Total				23 100		1,704 100		4,022 100		273 100																					
c. People with religious beliefs other than your own												<b>2.8</b>		3.0		-.21		3.0		-.15		2.9		-.12							
DDreligion 1 Never				4 17		108 6		222 6		22 8																					
2 Sometimes				3 13		410 24		1,098 27		72 26																					
3 Often				9 39		527 31		1,329 33		76 28																					
4 Very often				7 30		659 39		1,378 34		102 38																					
Total				23 100		1,704 100		4,027 100		272 100																					
d. People with political views other than your own												<b>2.9</b>		2.9		.00		2.9		.00		2.9		.02							
DDpolitical 1 Never				2 9		116 7		269 7		23 8																					
2 Sometimes				5 22		478 28		1,116 28		81 30																					
3 Often				9 39		545 32		1,328 33		72 26																					

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

		Frequency Distributions								Statistical Comparisons <sup>k</sup>									
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers			
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count		Count		Count		Count		Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
					%		%		%		%								
		4	Very often	7	30	566	33	1,319	33	97	36								
			Total	23	100	1,705	100	4,032	100	273	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
<b>9. During the current school year, about how often have you done the following?</b>																			
a. Identified key information from reading assignments	LSreading	1	Never	0	0	37	2	62	2	5	2	<b>3.1</b>	3.0	.15	3.0	.05	3.0	.09	
		2	Sometimes	4	17	404	24	851	21	67	24								
		3	Often	13	57	837	49	1,943	48	121	44								
		4	Very often	6	26	427	25	1,176	29	81	30								
		Total		23	100	1,705	100	4,032	100	274	100								
b. Reviewed your notes after class	LSnotes	1	Never	0	0	78	5	140	3	6	2	<b>3.0</b>	2.9	.07	3.1	-.06	3.1	-.15	
		2	Sometimes	9	39	497	29	975	24	63	23								
		3	Often	5	22	580	34	1,454	36	93	34								
		4	Very often	9	39	544	32	1,458	36	110	40								
		Total		23	100	1,699	100	4,027	100	272	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	0	0	125	7	190	5	17	6	<b>2.9</b>	2.8	.05	2.9	-.04	3.0	-.11	
		2	Sometimes	10	43	489	29	1,162	29	65	24								
		3	Often	6	26	643	38	1,515	38	99	36								
		4	Very often	7	30	444	26	1,155	29	91	33								
		Total		23	100	1,701	100	4,022	100	272	100								
<b>10. During the current school year, to what extent have your courses challenged you to do your best work?</b>																			
challenge		1	Not at all	0	0	20	1	24	1	2	1	<b>5.5</b>	5.4	.08	5.6	-.07	5.5	.03	
		2		0	0	20	1	31	1	4	1								
		3		0	0	86	5	149	4	12	4								
		4		3	13	205	12	420	10	26	10								
		5		9	39	547	32	1,215	30	93	34								
		6		7	30	407	24	1,028	26	69	25								
		7	Very much	4	17	413	24	1,156	29	67	25								
		Total		23	100	1,698	100	4,023	100	273	100								
<b>11. Which of the following have you done or do you plan to do before you graduate?<sup>o</sup></b>																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern		Have not decided	3	13	196	12	402	10	21	8	<b>4%</b>	8%	-.17	8%	-.14	11%	-.24	
			Do not plan to do	0	0	67	4	155	4	9	3								
			Plan to do	19	83	1,295	76	3,173	79	215	78								
			Done or in progress	1	4	142	8	303	8	29	11								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

Item wording or description	Variable name <sup>l</sup>  progress.")	Values <sup>m</sup>	Response options	Frequency Distributions								Statistical Comparisons <sup>k</sup>						
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with						
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers			
			Total	23	100	1,700	100	4,033	100	274	100	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>



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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
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	4	17	427	25	1,049	26	68	25	<b>22%</b>	10%	.34	11%	.28	14%	.21	
			Do not plan to do	2	9	331	19	831	21	56	21								
			Plan to do	12	52	781	46	1,689	42	111	41								
			Done or in progress	5	22	163	10	460	11	38	14								
			Total	23	100	1,702	100	4,029	100	273	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	43	517	30	1,295	32	74	27	<b>13%</b>	14%	-.02	14%	-.02	28%	-.37	
			Do not plan to do	3	13	360	21	919	23	40	15								
			Plan to do	7	30	592	35	1,248	31	83	30								
			Done or in progress	3	13	231	14	556	14	76	28								
			Total	23	100	1,700	100	4,018	100	273	100								
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	8	36	472	28	1,157	29	87	32	<b>0%</b>	3%	-.32	3%	-.35	3%	-.34	
			Do not plan to do	4	18	421	25	913	23	52	19								
			Plan to do	10	45	763	45	1,830	45	127	46								
			Done or in progress	0	0	44	3	122	3	8	3								
			Total	22	100	1,700	100	4,022	100	274	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	5	22	518	30	1,129	28	94	34	<b>9%</b>	6%	.09	7%	.08	6%	.11	
			Do not plan to do	1	4	257	15	443	11	38	14								
			Plan to do	15	65	816	48	2,188	54	126	46								
			Done or in progress	2	9	108	6	269	7	16	6								
			Total	23	100	1,699	100	4,029	100	274	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	6	27	531	31	1,173	29	88	32	<b>5%</b>	2%	.12	2%	.18	3%	.11	
			Do not plan to do	0	0	182	11	310	8	18	7								
			Plan to do	15	68	947	56	2,481	62	160	59								
			Done or in progress	1	5	40	2	62	2	7	3								
			Total	22	100	1,700	100	4,026	100	273	100								
<b>12. About how many of your courses at this institution have included a community-based project (service-learning)?</b>																			
	servcourse	1	None	9	39	818	48	1,842	46	94	34	<b>1.7</b>	1.6	.08	1.7	.05	1.8	-.19	
			2	Some	12	52	704	41	1,790	45	139								51
			3	Most	2	9	152	9	309	8	32								12

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Frequency Distributions								Statistical Comparisons <sup>k</sup>									
				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 <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean
		4	All	0	0	25	1	81	2	9	3										
			Total	23	100	1,699	100	4,022	100	274	100										

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>								
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>		
<b>13. Indicate the quality of your interactions with the following people at your institution.</b>																				
a. Students	QIstudent	1 2 3 4 5 6 7 —	Poor	1	4	27	2	62	2	6	2	<b>5.4</b>	5.4	.01	5.4	-.02	5.4	-.03		
				0	0	39	2	73	2	4	1									
				1	4	96	6	210	5	16	6									
				3	13	214	13	515	13	29	11									
				7	30	469	28	1,082	27	80	29									
				4	17	435	26	1,023	25	57	21									
				7	30	414	24	1,032	26	80	29									
				—	Not applicable	0	0	6	0	29	1								1	0
				Total		23	100	1,700	100	4,026	100								273	100
b. Academic advisors	QIadvisor	1 2 3 4 5 6 7 —	Poor	0	0	64	4	128	3	19	7	<b>5.4</b>	5.1	.22	5.3	.10	5.0	.25		
				0	0	83	5	146	4	11	4									
				4	17	157	9	309	8	25	9									
				3	13	262	15	547	14	41	15									
				5	22	343	20	821	20	46	17									
				1	4	323	19	811	20	57	21									
				7	30	439	26	1,172	29	69	25									
				—	Not applicable	0	0	30	2	91	2								5	2
				Total		23	100	1,701	100	4,025	100								273	100
c. Faculty	QIfaculty	1 2 3 4 5 6 7 —	Poor	0	0	39	2	64	2	5	2	<b>6.0</b>	5.1 **	.61	5.4 *	.45	5.2 *	.56		
				1	4	69	4	105	3	10	4									
				0	0	120	7	245	6	19	7									
				1	4	276	16	509	13	33	12									
				5	13	447	26	981	24	79	29									
				6	39	415	24	1,126	28	71	26									
				7	30	314	18	960	24	53	19									
				—	Not applicable	0	0	18	1	32	1								3	1
				Total		23	100	1,698	100	4,022	100								273	100

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Your first-year students compared with															
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	0	0	67	4	127	3	14	5	5.5	5.1	.25	5.2	.20	5.1	.20	
		2		2	9	68	4	121	3	11	4								
		3		1	4	120	7	301	7	13	5								
		4		2	9	229	14	550	14	33	12								
		5		4	17	372	22	836	21	60	22								
		6		7	30	351	21	867	22	65	24								
		7	Excellent	7	30	348	21	869	22	60	22								
		—	Not applicable	0	0	141	8	351	9	16	6								
	Total			23	100	1,696	100	4,022	100	272	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	0	0	77	5	155	4	14	5	5.3	4.9	.26	5.1	.16	4.8	.31	
		2		2	9	76	4	167	4	11	4								
		3		0	0	158	9	291	7	33	12								
		4		4	17	274	16	557	14	40	15								
		5		5	22	357	21	885	22	64	23								
		6		6	26	321	19	824	21	47	17								
		7	Excellent	6	26	334	20	891	22	52	19								
		—	Not applicable	0	0	103	6	249	6	12	4								
	Total			23	100	1,700	100	4,019	100	273	100								
<b>14. How much does your institution emphasize the following?</b>																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	0	0	36	2	55	1	7	3	3.1	3.1	-.02	3.2	-.09	3.1	.06	
		2	Some	5	22	257	15	596	15	51	19								
		3	Quite a bit	10	43	836	49	1,878	47	127	47								
		4	Very much	8	35	571	34	1,490	37	87	32								
			Total			23	100	1,700	100	4,019	100								272
b. Providing support to help students succeed academically	SEacademic	1	Very little	1	4	49	3	106	3	8	3	3.1	3.1	-.02	3.1	-.08	3.1	.00	
		2	Some	3	13	330	19	706	18	53	20								
		3	Quite a bit	12	52	718	42	1,688	42	117	43								
		4	Very much	7	30	598	35	1,513	38	93	34								
			Total			23	100	1,695	100	4,013	100								271
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	1	4	66	4	154	4	8	3	3.3	3.2	.09	3.2	.07	3.3	.06	
		2	Some	3	13	238	14	552	14	40	15								
		3	Quite a bit	7	30	632	37	1,472	37	98	36								
		4	Very much	12	52	758	45	1,837	46	126	46								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

		Frequency Distributions								Statistical Comparisons <sup>k</sup>								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
			Total	23	100	1,694	100	4,015	100	272	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				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 <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	2	9	164	10	402	10	26	10	<b>2.6</b>	2.8	-.26	2.8	-.25	2.8	-.21	
		2	Some	8	35	455	27	1,096	27	81	30								
		3	Quite a bit	11	48	602	36	1,400	35	97	36								
		4	Very much	2	9	471	28	1,112	28	68	25								
		Total		23	100	1,692	100	4,010	100	272	100								
e. Providing opportunities to be involved socially	SEsocial	1	Very little	2	9	102	6	204	5	10	4	<b>2.8</b>	3.0	-.21	3.0	-.22	3.0	-.22	
		2	Some	5	22	336	20	857	21	67	25								
		3	Quite a bit	11	48	702	42	1,607	40	105	39								
		4	Very much	5	22	551	33	1,342	33	90	33								
		Total		23	100	1,691	100	4,010	100	272	100								
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	3	13	110	6	222	6	16	6	<b>3.0</b>	3.0	.08	3.0	.05	3.0	.09	
		2	Some	1	4	378	22	898	22	64	24								
		3	Quite a bit	11	48	659	39	1,559	39	104	38								
		4	Very much	8	35	550	32	1,335	33	87	32								
		Total		23	100	1,697	100	4,014	100	271	100								
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	8	35	359	21	805	20	55	20	<b>2.2</b>	2.4	-.16	2.4	-.21	2.3	-.13	
		2	Some	5	22	593	35	1,395	35	108	40								
		3	Quite a bit	7	30	483	29	1,131	28	68	25								
		4	Very much	3	13	255	15	682	17	40	15								
		Total		23	100	1,690	100	4,013	100	271	100								
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	1	4	145	9	334	8	18	7	<b>2.9</b>	2.9	.01	2.9	.00	2.9	-.08	
		2	Some	7	30	413	24	989	25	61	22								
		3	Quite a bit	9	39	670	39	1,569	39	112	41								
		4	Very much	6	26	469	28	1,121	28	81	30								
		Total		23	100	1,697	100	4,013	100	272	100								
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	6	26	251	15	609	15	34	12	<b>2.3</b>	2.5	-.29	2.6	-.31	2.6	-.35	
		2	Some	7	30	590	35	1,315	33	96	35								
		3	Quite a bit	8	35	558	33	1,332	33	91	33								
		4	Very much	2	9	298	18	762	19	52	19								
		Total		23	100	1,697	100	4,018	100	273	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												<i>Your first-year students compared with</i>							
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
<b>15. About how many hours do you spend in a typical 7-day week doing the following?</b>																			
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	6	0	12	0	2	1	<b>14.5</b>	15.3	-.10	15.7	-.15	14.2	.03	
		3	1-5 hrs	1	4	200	12	424	11	45	17								
		8	6-10 hrs	7	30	330	20	775	19	51	19								
		13	11-15 hrs	7	30	390	23	853	21	57	21								
		18	16-20 hrs	3	13	333	20	859	21	64	24								
		23	21-25 hrs	3	13	216	13	541	13	23	9								
		28	26-30 hrs	1	4	85	5	278	7	9	3								
		33	More than 30 hrs	1	4	129	8	268	7	19	7								
			Total	23	100	1,689	100	4,010	100	270	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	3	13	553	33	1,263	31	84	31	<b>8.0</b>	5.4	.39	5.8	.32	5.9	.30	
		3	1-5 hrs	5	22	575	34	1,389	35	82	30								
		8	6-10 hrs	8	35	259	15	588	15	51	19								
		13	11-15 hrs	6	26	162	10	328	8	30	11								
		18	16-20 hrs	0	0	71	4	220	5	13	5								
		23	21-25 hrs	0	0	33	2	120	3	3	1								
		28	26-30 hrs	1	4	12	1	43	1	1	0								
		33	More than 30 hrs	0	0	25	1	63	2	7	3								
			Total	23	100	1,690	100	4,014	100	271	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	17	74	1,422	84	3,248	81	227	84	<b>2.3</b>	2.3	.01	2.1	.04	2.2	.01	
		3	1-5 hrs	2	9	29	2	167	4	7	3								
		8	6-10 hrs	2	9	43	3	244	6	8	3								
		13	11-15 hrs	1	4	91	5	170	4	11	4								
		18	16-20 hrs	1	4	67	4	123	3	12	4								
		23	21-25 hrs	0	0	25	1	38	1	4	1								
		28	26-30 hrs	0	0	8	0	8	0	0	0								
		33	More than 30 hrs	0	0	6	0	14	0	2	1								
			Total	23	100	1,691	100	4,012	100	271	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Your first-year students compared with															
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	17	74	1,140	67	2,697	67	189	69	<b>5.8</b>	5.5	.03	5.4	.04	5.3	.05	
	<i>(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	0	0	78	5	187	5	14	5								
		8	6-10 hrs	0	0	88	5	210	5	12	4								
		13	11-15 hrs	1	4	89	5	259	6	9	3								
		18	16-20 hrs	1	4	109	6	233	6	15	6								
		23	21-25 hrs	3	13	81	5	179	4	12	4								
		28	26-30 hrs	0	0	45	3	101	3	9	3								
		33	More than 30 hrs	1	4	63	4	150	4	12	4								
			Total	23	100	1,693	100	4,016	100	272	100								
Estimated number of hours working for pay	tmworkhrs											<b>8.1</b>	7.7	.04	7.5	.06	7.5	.05	
	<i>(Continuous variable created by NSSE)</i>																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	10	43	819	48	2,189	55	131	48	<b>2.6</b>	3.2	-.13	2.7	-.02	2.9	-.07	
	<i>(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	11	48	562	33	1,284	32	96	35								
		8	6-10 hrs	1	4	170	10	278	7	29	11								
		13	11-15 hrs	0	0	73	4	129	3	8	3								
		18	16-20 hrs	1	4	29	2	70	2	4	1								
		23	21-25 hrs	0	0	21	1	30	1	2	1								
		28	26-30 hrs	0	0	4	0	9	0	0	0								
		33	More than 30 hrs	0	0	11	1	22	1	1	0								
			Total	23	100	1,689	100	4,011	100	271	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	48	3	93	2	7	3	<b>14.5</b>	11.3	.40	11.6	.35	11.1	.40	
	<i>(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	6	26	421	25	957	24	75	27								
		8	6-10 hrs	4	17	470	28	1,105	28	78	29								
		13	11-15 hrs	3	13	341	20	817	20	45	16								
		18	16-20 hrs	4	17	201	12	489	12	34	12								
		23	21-25 hrs	2	9	92	5	227	6	14	5								
		28	26-30 hrs	1	4	31	2	107	3	2	1								
		33	More than 30 hrs	3	13	92	5	221	6	18	7								
			Total	23	100	1,696	100	4,016	100	273	100								



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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				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 <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	19	83	1,260	75	3,050	76	209	77	<b>1.2</b>	2.5	-.22	2.5	-.20	2.3	-.19	
	<i>(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	2	9	184	11	431	11	31	11								
	8	6-10 hrs	1	4	92	5	184	5	10	4									
	13	11-15 hrs	1	4	68	4	136	3	10	4									
	18	16-20 hrs	0	0	29	2	68	2	4	1									
	23	21-25 hrs	0	0	15	1	41	1	0	0									
	28	26-30 hrs	0	0	6	0	17	0	1	0									
	33	More than 30 hrs	0	0	33	2	81	2	7	3									
	Total				23	100	1,687	100	4,008	100	272								100
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	6	26	451	27	1,689	42	90	33	<b>4.0</b>	5.6	-.24	4.4	-.06	5.0	-.15	
	<i>(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	12	52	651	38	1,298	32	104	38								
	8	6-10 hrs	3	13	320	19	521	13	41	15									
	13	11-15 hrs	1	4	139	8	249	6	21	8									
	18	16-20 hrs	1	4	53	3	110	3	6	2									
	23	21-25 hrs	0	0	34	2	54	1	3	1									
	28	26-30 hrs	0	0	10	1	20	0	0	0									
	33	More than 30 hrs	0	0	35	2	76	2	8	3									
	Total				23	100	1,693	100	4,017	100	273								100
<b>16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?</b>																			
reading	1	Very little	7	30	245	14	512	13	42	15	<b>2.5</b>	2.5	-.06	2.6	-.14	2.6	-.12		
	2	Some	4	17	657	39	1,524	38	98	36									
	3	About half	6	26	487	29	1,137	28	71	26									
	4	Most	6	26	234	14	639	16	43	16									
	5	Almost all	0	0	69	4	201	5	17	6									
	Total				23	100	1,692	100	4,013	100								271	100
tmreadinghrs																			
<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>												<b>5.8</b>							
												6.2							
												-.07							
												6.7							
												-.15							
												6.1							
												-.04							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				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 <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
	treadinghrscol	1	0 hrs	0	0	6	0	12	0	2	1								
	<i>(Collapsed version of treadinghrs created by NSSE.)</i>	2	More than zero, up to 5 hrs	11	48	903	54	2,025	51	159	59								
		3	More than 5, up to 10 hrs	10	43	490	29	1,140	29	63	24								
		4	More than 10, up to 15 hrs	1	4	142	8	428	11	19	7								
		5	More than 15, up to 20 hrs	1	4	77	5	227	6	12	4								
		6	More than 20, up to 25 hrs	0	0	48	3	123	3	10	4								
		7	More than 25 hrs	0	0	14	1	41	1	3	1								
			Total		23	100	1,680	100	3,996	100	268	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	4	149	9	261	7	22	8	<b>2.9</b>	2.7	.14	2.8	.05	2.8	.12
		2	Some	6	26	484	29	1,081	27	74	27							
		3	Quite a bit	11	48	710	42	1,742	44	121	45							
		4	Very much	5	22	350	21	919	23	54	20							
		Total		23	100	1,693	100	4,003	100	271	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	2	9	215	13	405	10	19	7	<b>2.8</b>	2.6	.19	2.7	.10	2.8	.01
		2	Some	7	30	537	32	1,265	32	84	31							
		3	Quite a bit	8	35	638	38	1,520	38	109	40							
		4	Very much	6	26	306	18	824	21	60	22							
		Total		23	100	1,696	100	4,014	100	272	100							
c. Thinking critically and analytically	pgthink	1	Very little	0	0	53	3	88	2	2	1	<b>3.3</b>	3.1	.30	3.1	.21	3.1	.21
		2	Some	4	17	337	20	680	17	53	19							
		3	Quite a bit	8	35	758	45	1,811	45	121	44							
		4	Very much	11	48	547	32	1,438	36	97	36							
		Total		23	100	1,695	100	4,017	100	273	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	1	4	109	6	248	6	11	4	<b>3.0</b>	2.9	.09	2.9	.10	2.9	.06
		2	Some	5	22	447	26	1,091	27	78	29							
		3	Quite a bit	11	48	679	40	1,634	41	110	40							
		4	Very much	6	26	460	27	1,046	26	74	27							
		Total		23	100	1,695	100	4,017	100	273	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

		Frequency Distributions								Statistical Comparisons <sup>k</sup>								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
			Total	23	100	1,695	100	4,019	100	273	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				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 <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	3	13	289	17	596	15	32	12	2.6	2.5	.11	2.5	.03	2.6	-.06	
		2	Some	10	43	595	35	1,390	35	93	34								
		3	Quite a bit	4	17	551	33	1,292	32	92	34								
		4	Very much	6	26	260	15	737	18	54	20								
		Total		23	100	1,695	100	4,015	100	271	100								
f. Working effectively with others	pgothers	1	Very little	3	13	109	6	224	6	10	4	2.7	2.9	-.14	2.9	-.19	2.9	-.24	
		2	Some	5	22	449	27	1,035	26	75	28								
		3	Quite a bit	10	43	704	42	1,650	41	103	38								
		4	Very much	5	22	430	25	1,098	27	81	30								
		Total		23	100	1,692	100	4,007	100	269	100								
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	4	17	196	12	405	10	21	8	2.6	2.7	-.13	2.7	-.19	2.7	-.18	
		2	Some	8	35	481	28	1,159	29	92	34								
		3	Quite a bit	5	22	679	40	1,528	38	100	37								
		4	Very much	6	26	335	20	921	23	59	22								
		Total		23	100	1,691	100	4,013	100	272	100								
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	5	22	147	9	390	10	22	8	2.7	2.8	-.19	2.8	-.14	2.8	-.12	
		2	Some	6	26	450	27	1,122	28	88	33								
		3	Quite a bit	4	17	643	38	1,475	37	90	33								
		4	Very much	8	35	452	27	1,025	26	69	26								
		Total		23	100	1,692	100	4,012	100	269	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	3	13	212	13	488	12	25	9	2.6	2.6	.00	2.7	-.05	2.7	-.11	
		2	Some	6	26	562	33	1,253	31	81	30								
		3	Quite a bit	11	48	587	35	1,439	36	112	42								
		4	Very much	3	13	331	20	831	21	51	19								
		Total		23	100	1,692	100	4,011	100	269	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	4	17	206	12	503	13	27	10	2.7	2.6	.02	2.6	.01	2.6	.01	
		2	Some	7	30	546	32	1,291	32	93	34								
		3	Quite a bit	5	22	607	36	1,366	34	101	37								
		4	Very much	7	30	337	20	854	21	51	19								
		Total		23	100	1,696	100	4,014	100	272	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### First-Year Students<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
<b>18. How would you evaluate your entire educational experience at this institution?</b>																			
	evalexp	1	Poor	0	0	25	1	58	1	4	1	<b>3.3</b>	3.1	.30	3.2	.24	3.1	.29	
		2	Fair	2	9	263	15	585	15	40	15								
		3	Good	11	48	875	51	1,988	49	141	52								
		4	Excellent	10	43	540	32	1,392	35	87	32								
		Total		23	100	1,703	100	4,023	100	272	100								
<b>19. If you could start over again, would you go to the same institution you are now attending?</b>																			
	sameinst	1	Definitely no	0	0	56	3	153	4	7	3	<b>3.5</b>	3.1	.41	3.2	.38	3.2	.36	
		2	Probably no	3	14	260	15	596	15	45	16								
		3	Probably yes	6	27	799	47	1,773	44	116	42								
		4	Definitely yes	13	59	597	35	1,514	38	105	38								
		Total		22	100	1,712	100	4,036	100	273	100								
<b>20. Do you intend to return to this institution next year?<sup>f</sup></b>																			
	returnexp		No	0	0	82	5	175	4	22	8	<b>91%</b>	87%	.14	88%	.12	84%	.24	
			Yes	21	91	1,489	87	3,535	88	228	84								
			Not sure	2	9	139	8	327	8	23	8								
			Total	23	100	1,710	100	4,037	100	273	100								
			(Means indicate the percentage who responded "Yes.")																

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

## Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>		Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
														ASU	Southwest Public				
<b>1. During the current school year, about how often have you done the following?</b>																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	3	15	105	5	107	3	11	4	<b>2.9</b>	2.8	.02	3.1	-.26	2.9	-.08	
		2	Sometimes	5	25	695	35	1,060	26	93	33								
		3	Often	4	20	603	31	1,317	32	84	30								
		4	Very often	8	40	571	29	1,584	39	93	33								
		Total		20	100	1,974	100	4,068	100	281	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	1	5	467	24	787	19	78	28	<b>2.5</b>	2.3	.14	2.4	.05	2.2	.23	
		2	Sometimes	9	45	717	36	1,527	38	101	36								
		3	Often	10	50	486	25	1,068	26	64	23								
		4	Very often	0	0	301	15	682	17	38	14								
		Total		20	100	1,971	100	4,064	100	281	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	10	131	7	173	4	9	3	<b>3.1</b>	2.9	.16	3.0	.01	3.0	.08	
		2	Often	1	5	330	17	544	13	50	18								
		3	Sometimes	11	55	1,088	55	2,280	56	157	56								
		4	Never	6	30	430	22	1,070	26	65	23								
		Total		20	100	1,979	100	4,067	100	281	100								
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	10	50	938	47	1,847	45	130	46	<b>1.7</b>	1.7	-.03	1.8	-.07	1.7	-.03	
		2	Sometimes	7	35	730	37	1,582	39	105	38								
		3	Often	2	10	217	11	439	11	38	14								
		4	Very often	1	5	92	5	205	5	7	3								
		Total		20	100	1,977	100	4,073	100	280	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	1	5	179	9	320	8	29	10	<b>2.6</b>	2.7	-.11	2.7	-.14	2.6	-.09	
		2	Sometimes	11	55	764	39	1,518	37	98	35								
		3	Often	4	20	607	31	1,425	35	103	37								
		4	Very often	4	20	431	22	813	20	51	18								
		Total		20	100	1,981	100	4,076	100	281	100								
f. Explained course material to one or more students	CLexplain	1	Never	0	0	66	3	109	3	5	2	<b>3.0</b>	2.9	.08	3.0	.02	2.9	.08	
		2	Sometimes	5	25	578	29	1,078	26	82	29								
		3	Often	10	50	759	38	1,666	41	120	43								
		4	Very often	5	25	578	29	1,221	30	74	26								
		Total		20	100	1,981	100	4,074	100	281	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

## Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>						
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with				
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	2	10	229	12	434	11	37	13	2.8	2.7	.11	2.7	.08	2.7	.09
		2	Sometimes	5	25	658	33	1,302	32	77	28							
		3	Often	8	40	592	30	1,284	32	95	34							
		4	Very often	5	25	499	25	1,050	26	70	25							
		Total		20	100	1,978	100	4,070	100	279	100							
h. Worked with other students on course projects or assignments	CLproject	1	Never	0	0	147	7	200	5	11	4	2.9	2.8	.10	2.9	.00	2.9	-.03
		2	Sometimes	7	35	583	29	1,133	28	76	27							
		3	Often	8	40	750	38	1,614	40	117	42							
		4	Very often	5	25	498	25	1,126	28	76	27							
		Total		20	100	1,978	100	4,073	100	280	100							
i. Given a course presentation	present	1	Never	4	20	295	15	309	8	29	10	2.7	2.5	.20	2.8	-.10	2.7	-.03
		2	Sometimes	3	15	757	38	1,295	32	85	30							
		3	Often	8	40	546	28	1,403	34	98	35							
		4	Very often	5	25	379	19	1,064	26	67	24							
		Total		20	100	1,977	100	4,071	100	279	100							
<b>2. During the current school year, about how often have you done the following?</b>																		
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	1	5	83	4	137	3	11	4	3.1	2.9	.16	2.9	.13	2.9	.15
		2	Sometimes	3	15	542	27	1,106	27	76	27							
		3	Often	10	50	818	41	1,670	41	116	41							
		4	Very often	6	30	535	27	1,147	28	77	28							
		Total		20	100	1,978	100	4,060	100	280	100							
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	2	10	199	10	271	7	28	10	2.8	2.6	.16	2.7	.06	2.6	.22
		2	Sometimes	6	30	752	38	1,508	37	107	38							
		3	Often	7	35	651	33	1,464	36	104	37							
		4	Very often	5	25	376	19	825	20	40	14							
		Total		20	100	1,978	100	4,068	100	279	100							
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	3	15	421	21	648	16	67	24	2.5	2.3	.20	2.4	.10	2.2	.35
		2	Sometimes	7	35	785	40	1,713	42	121	43							
		3	Often	7	35	512	26	1,106	27	64	23							
		4	Very often	3	15	258	13	598	15	27	10							
		Total		20	100	1,976	100	4,065	100	279	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>		Mean	Effect size <sup>n</sup>		
														Mean	Effect size <sup>n</sup>		Mean	Effect size <sup>n</sup>	
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	0	0	142	7	214	5	21	8	2.9	2.7	.22	2.8	.18	2.6 *	▲	.37
		2	Sometimes	4	20	656	33	1,339	33	101	36								
		3	Often	14	70	799	41	1,742	43	122	44								
		4	Very often	2	10	373	19	767	19	34	12								
		Total		20	100	1,970	100	4,062	100	278	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	1	5	77	4	122	3	8	3	2.9	3.0	-.14	2.9	-.11	2.9	-	-.05
		2	Sometimes	5	25	462	23	1,049	26	80	29								
		3	Often	10	50	890	45	1,842	45	125	45								
		4	Very often	4	20	545	28	1,050	26	65	23								
		Total		20	100	1,974	100	4,063	100	278	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	0	0	43	2	69	2	9	3	3.0	3.0	.06	3.0	.03	2.9	-	.09
		2	Sometimes	4	20	517	26	1,050	26	69	25								
		3	Often	12	60	909	46	1,839	45	132	48								
		4	Very often	4	20	505	26	1,107	27	67	24								
		Total		20	100	1,974	100	4,065	100	277	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	0	0	23	1	25	1	3	1	3.2	3.2	.04	3.2	.00	3.2	-	.03
		2	Sometimes	2	10	310	16	621	15	43	15								
		3	Often	12	60	936	48	1,940	48	134	48								
		4	Very often	6	30	696	35	1,472	36	99	35								
		Total		20	100	1,965	100	4,058	100	279	100								
<b>3. During the current school year, about how often have you done the following?</b>																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	1	5	381	19	442	11	42	15	2.9	2.4 *	▲	.49	2.7	.22	2.5	.38
		2	Sometimes	6	30	769	39	1,436	35	107	38								
		3	Often	7	35	459	23	1,154	28	69	25								
		4	Very often	6	30	367	19	1,031	25	60	22								
		Total		20	100	1,976	100	4,063	100	278	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	5	25	777	39	1,248	31	96	34	2.4	2.1	.28	2.3	.09	2.1	-	.20
		2	Sometimes	7	35	581	29	1,261	31	89	32								
		3	Often	4	20	344	17	851	21	55	20								
		4	Very often	4	20	273	14	707	17	40	14								
		Total		20	100	1,975	100	4,067	100	280	100								



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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

## Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	4	20	529	27	731	18	54	20	2.2	2.2	.04	2.4	-.21	2.3	-.09	
		2	Sometimes	11	55	817	41	1,630	40	120	43								
		3	Often	2	10	399	20	1,046	26	71	26								
		4	Very often	3	15	225	11	648	16	31	11								
		Total		20	100	1,970	100	4,055	100	276	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	4	20	473	24	650	16	59	21	2.4	2.2	.19	2.4	-.05	2.3	.08	
		2	Sometimes	10	50	868	44	1,753	43	118	42								
		3	Often	1	5	436	22	1,041	26	69	25								
		4	Very often	5	25	197	10	615	15	33	12								
		Total		20	100	1,974	100	4,059	100	279	100								
<b>4. During the current school year, how much has your coursework emphasized the following?</b>																			
a. Memorizing course material	memorize	1	Very little	0	0	53	3	99	2	7	3	3.0	3.2	-.19	3.1	-.17	3.2	-.27	
		2	Some	5	25	329	17	749	18	41	15								
		3	Quite a bit	10	50	857	43	1,729	43	117	42								
		4	Very much	5	25	736	37	1,491	37	114	41								
		Total		20	100	1,975	100	4,068	100	279	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	0	0	57	3	95	2	8	3	3.0	3.1	-.09	3.2	-.20	3.1	-.11	
		2	Some	5	25	392	20	653	16	50	18								
		3	Quite a bit	10	50	887	45	1,854	46	133	48								
		4	Very much	5	25	642	32	1,464	36	89	32								
		Total		20	100	1,978	100	4,066	100	280	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	0	0	76	4	127	3	10	4	3.0	3.0	.00	3.1	-.11	3.0	-.03	
		2	Some	4	20	461	23	766	19	57	21								
		3	Quite a bit	12	60	831	42	1,777	44	127	46								
		4	Very much	4	20	608	31	1,389	34	84	30								
		Total		20	100	1,976	100	4,059	100	278	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	0	0	147	7	197	5	18	6	3.1	2.8	.25	2.9	.16	2.9	.15	
		2	Some	3	15	542	28	1,062	26	62	22								
		3	Quite a bit	13	65	787	40	1,701	42	120	43								
		4	Very much	4	20	494	25	1,100	27	77	28								
		Total		20	100	1,970	100	4,060	100	277	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

## Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	0	0	112	6	166	4	16	6	<b>2.9</b>	2.9	.01	3.0	-.08	3.0	-.07	
		2	Some	4	20	514	26	941	23	56	20								
		3	Quite a bit	14	70	822	42	1,820	45	131	47								
		4	Very much	2	10	525	27	1,132	28	76	27								
		Total		20	100	1,973	100	4,059	100	279	100								
<b>5. During the current school year, to what extent have your instructors done the following?</b>																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	1	5	39	2	73	2	5	2	<b>3.3</b>	3.1	.14	3.2	.08	3.1	.19	
		2	Some	1	5	350	18	622	15	57	21								
		3	Quite a bit	10	50	878	45	1,817	45	120	43								
		4	Very much	8	40	706	36	1,546	38	96	35								
		Total		20	100	1,973	100	4,058	100	278	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	0	0	84	4	135	3	14	5	<b>3.1</b>	3.0	.09	3.1	.01	3.1	.04	
		2	Some	5	25	397	20	736	18	47	17								
		3	Quite a bit	8	40	874	44	1,809	45	125	45								
		4	Very much	7	35	613	31	1,381	34	93	33								
		Total		20	100	1,968	100	4,061	100	279	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	0	0	60	3	81	2	7	3	<b>3.4</b>	3.2	.23	3.2	.14	3.2	.15	
		2	Some	2	10	333	17	574	14	38	14								
		3	Quite a bit	9	45	806	41	1,690	42	116	42								
		4	Very much	9	45	775	39	1,716	42	117	42								
		Total		20	100	1,974	100	4,061	100	278	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	4	20	313	16	366	9	40	14	<b>2.8</b>	2.6	.17	2.8	-.08	2.6	.11	
		2	Some	2	10	597	30	1,116	28	79	29								
		3	Quite a bit	9	45	648	33	1,446	36	97	35								
		4	Very much	5	25	408	21	1,125	28	60	22								
		Total		20	100	1,966	100	4,053	100	276	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	1	5	199	10	292	7	28	10	<b>2.8</b>	2.7	.13	2.8	-.04	2.8	.05	
		2	Some	6	30	626	32	1,117	28	80	29								
		3	Quite a bit	9	45	746	38	1,628	40	103	37								
		4	Very much	4	20	400	20	1,021	25	67	24								
		Total		20	100	1,971	100	4,058	100	278	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>		Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
														ASU	Southwest Public				
<b>6. During the current school year, about how often have you done the following?</b>																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	2	10	115	6	166	4	17	6	2.6	2.8	-.22	2.9	-.38	2.8	-.25	
		2	Sometimes	7	35	592	30	1,083	27	79	28								
		3	Often	8	40	860	44	1,723	42	121	44								
		4	Very often	3	15	401	20	1,088	27	61	22								
		Total		20	100	1,968	100	4,060	100	278	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	2	10	355	18	572	14	51	18	2.6	2.4	.14	2.6	-.01	2.4	.11	
		2	Sometimes	9	45	733	37	1,412	35	100	36								
		3	Often	5	25	583	30	1,305	32	79	28								
		4	Very often	4	20	297	15	760	19	48	17								
		Total		20	100	1,968	100	4,049	100	278	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	1	5	256	13	381	9	40	14	2.8	2.5	.25	2.7	.11	2.5	.23	
		2	Sometimes	7	35	728	37	1,414	35	97	35								
		3	Often	8	40	678	35	1,477	37	92	33								
		4	Very often	4	20	300	15	773	19	48	17								
		Total		20	100	1,962	100	4,045	100	277	100								
<b>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.)</b>																			
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	1	5	184	9	223	6	37	13	7.4	6.5	.14	7.3	.00	6.7	.11	
		1.5	1-2	4	20	427	22	755	19	60	22								
		4	3-5	6	30	573	29	1,220	30	66	24								
		8	6-10	4	20	386	20	903	22	54	19								
		13	11-15	1	5	190	10	427	11	29	10								
		18	16-20	4	20	85	4	207	5	13	5								
		23	More than 20	0	0	118	6	313	8	20	7								
Total		20	100	1,963	100	4,048	100	279	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	5	25	599	31	906	22	82	30	2.9	3.1	-.06	3.5	-.14	3.2	-.08	
		1.5	1-2	8	40	672	34	1,484	37	95	34								
		4	3-5	4	20	366	19	926	23	53	19								
		8	6-10	2	10	203	10	458	11	27	10								
		13	11-15	1	5	66	3	161	4	11	4								
		18	16-20	0	0	29	1	56	1	6	2								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Frequency Distributions								Statistical Comparisons <sup>k</sup>				
				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 <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
		23	More than 20	0	0	28	1	55	1	3	1					
			Total	20	100	1,963	100	4,046	100	277	100					

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
c. 11 pages or more	wrlongnum	0	None	11	55	1,110	56	1,979	49	162	59	<b>1.3</b>	1.8	-.14	1.7	-.15	1.8	-.13	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	8	40	537	27	1,392	34	72	26								
		4	3-5	0	0	148	8	389	10	18	7								
		8	6-10	0	0	88	4	154	4	9	3								
		13	11-15	1	5	41	2	74	2	7	3								
		18	16-20	0	0	16	1	28	1	3	1								
		23	More than 20	0	0	27	1	31	1	4	1								
		Total			20	100	1,967	100	4,047	100	275	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.)									<b>63.6</b>	70.9	-.08	75.6	-.14	73.0	-.09	

#### 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	0	0	94	5	177	4	17	6	<b>3.2</b>	3.2	.00	3.1	.06	3.1	.12
		2	Sometimes	3	15	366	19	821	20	67	24							
		3	Often	10	50	552	28	1,286	32	71	25							
		4	Very often	7	35	956	49	1,773	44	124	44							
			Total	20	100	1,968	100	4,057	100	279	100							
b. People from an economic background other than your own	DDeconomic	1	Never	1	5	84	4	152	4	16	6	<b>3.1</b>	3.2	-.11	3.1	-.09	3.1	-.03
		2	Sometimes	2	10	375	19	815	20	58	21							
		3	Often	12	60	668	34	1,443	36	93	33							
		4	Very often	5	25	838	43	1,632	40	111	40							
			Total	20	100	1,965	100	4,042	100	278	100							
c. People with religious beliefs other than your own	DDreligion	1	Never	2	10	122	6	206	5	21	8	<b>3.2</b>	3.1	.10	3.1	.14	3.0	.21
		2	Sometimes	2	10	402	20	895	22	70	25							
		3	Often	6	30	592	30	1,357	34	75	27							
		4	Very often	10	50	850	43	1,589	39	111	40							
			Total	20	100	1,966	100	4,047	100	277	100							
d. People with political views other than your own	DDpolitical	1	Never	1	5	153	8	252	6	21	8	<b>3.0</b>	2.9	.02	3.0	-.01	3.0	-.03
		2	Sometimes	5	25	520	26	1,059	26	68	24							
		3	Often	8	40	594	30	1,353	33	86	31							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

		Frequency Distributions								Statistical Comparisons <sup>k</sup>								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count		Count		Count		Count		Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
					%		%		%		%							
		4	Very often	6	30	698	36	1,386	34	103	37							
			Total	20	100	1,965	100	4,050	100	278	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
<b>9. During the current school year, about how often have you done the following?</b>																			
a. Identified key information from reading assignments	LSreading	1	Never	0	0	40	2	75	2	9	3	<b>3.1</b>	3.1	-.02	3.2	-.08	3.1	.04	
		2	Sometimes	5	25	378	19	678	17	52	19								
		3	Often	8	40	862	44	1,813	45	128	46								
		4	Very often	7	35	689	35	1,492	37	89	32								
		Total		20	100	1,969	100	4,058	100	278	100								
b. Reviewed your notes after class	LSnotes	1	Never	1	5	107	5	191	5	14	5	<b>2.9</b>	3.0	-.12	3.0	-.18	3.0	-.17	
		2	Sometimes	6	30	525	27	1,067	26	70	25								
		3	Often	8	40	680	35	1,306	32	94	34								
		4	Very often	5	25	655	33	1,493	37	100	36								
		Total		20	100	1,967	100	4,057	100	278	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	0	0	126	6	211	5	19	7	<b>3.1</b>	2.9	.23	3.0	.16	2.9	.21	
		2	Sometimes	5	25	541	28	1,056	26	73	26								
		3	Often	8	40	723	37	1,470	36	102	37								
		4	Very often	7	35	574	29	1,320	33	85	30								
		Total		20	100	1,964	100	4,057	100	279	100								
<b>10. During the current school year, to what extent have your courses challenged you to do your best work?</b>																			
challenge		1	Not at all	0	0	23	1	37	1	3	1	<b>5.5</b>	5.5	-.02	5.7	-.14	5.8	-.20	
		2		0	0	29	1	48	1	4	1								
		3		1	5	81	4	137	3	5	2								
		4		3	15	231	12	356	9	33	12								
		5		6	30	561	29	1,110	28	60	22								
		6		5	25	464	24	1,069	26	67	24								
		7	Very much	5	25	576	29	1,279	32	105	38								
		Total		20	100	1,965	100	4,036	100	277	100								
<b>11. Which of the following have you done or do you plan to do before you graduate?<sup>o</sup></b>																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		3	15	242	12	410	10	37	13	<b>40%</b>	39%	.02	47%	-.14	41%	-.01	
		Do not plan to do		5	25	302	15	643	16	44	16								
		Plan to do		4	20	657	33	1,091	27	85	30								
		Done or in progress		8	40	768	39	1,912	47	113	41								
		<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: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

<i>Item wording or description</i>	<i>Variable name<sup>l</sup></i>	<i>Values<sup>m</sup></i>	<i>Response options</i>	Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Mean</i>	<i>Mean</i>	<i>Effect size<sup>n</sup></i>	<i>Mean</i>	<i>Effect size<sup>n</sup></i>	<i>Mean</i>	<i>Effect size<sup>n</sup></i>	
	<i>progress.")</i>		Total	20	100	1,969	100	4,056	100	279	100								



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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
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	3	15	238	12	419	10	33	12	<b>55%</b>	39%	.33	42%	.26	42%	.25	
			Do not plan to do	6	30	739	38	1,585	39	96	34								
			Plan to do	0	0	230	12	341	8	32	11								
			Done or in progress	11	55	761	39	1,715	42	118	42								
			Total	20	100	1,968	100	4,060	100	279	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	6	30	331	17	586	14	49	18	<b>30%</b>	22%	.19	25%	.11	26%	.10	
			Do not plan to do	8	40	975	50	2,050	51	127	46								
			Plan to do	0	0	233	12	397	10	31	11								
			Done or in progress	6	30	422	22	1,012	25	71	26								
			Total	20	100	1,961	100	4,045	100	278	100								
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	2	10	299	15	501	12	50	18	<b>15%</b>	13%	.06	15%	.00	10%	.14	
			Do not plan to do	15	75	1,189	61	2,602	64	163	58								
			Plan to do	0	0	217	11	342	8	37	13								
			Done or in progress	3	15	254	13	600	15	29	10								
			Total	20	100	1,959	100	4,045	100	279	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	2	10	287	15	506	12	43	15	<b>45%</b>	37%	.17	44%	.02	35%	.21	
			Do not plan to do	5	25	535	27	1,171	29	84	30								
			Plan to do	4	20	420	21	595	15	55	20								
			Done or in progress	9	45	724	37	1,782	44	96	35								
			Total	20	100	1,966	100	4,054	100	278	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	3	15	287	15	399	10	41	15	<b>40%</b>	33%	.15	48%	-.16	28%	.25	
			Do not plan to do	3	15	530	27	799	20	73	26								
			Plan to do	6	30	498	25	910	22	86	31								
			Done or in progress	8	40	647	33	1,943	48	78	28								
			Total	20	100	1,962	100	4,051	100	278	100								
<b>12. About how many of your courses at this institution have included a community-based project (service-learning)?</b>																			
	servcourse	1	None	9	45	996	51	1,691	42	111	40	<b>1.7</b>	1.6	.11	1.7	-.03	1.7	-.13	
		2	Some	10	50	821	42	2,047	51	135	48								
		3	Most	0	0	120	6	271	7	27	10								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
		4	All	1	5	25	1	39	1	6	2								
			Total	20	100	1,962	100	4,048	100	279	100								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>									
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers			
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>		Effect size <sup>n</sup>		Effect size <sup>n</sup>			
														Mean	Mean	Mean	Mean	Mean	Mean		
<b>13. Indicate the quality of your interactions with the following people at your institution.</b>																					
a. Students	QIstudent	1	Poor	0	0	21	1	41	1	1	0	5.6	5.6	.00	5.6	-.05	5.6	-.05			
		2		0	0	42	2	54	1	7	3										
		3		1	5	78	4	145	4	12	4										
		4		4	20	222	11	408	10	28	10										
		5		3	15	501	25	1,089	27	68	24										
		6		7	35	515	26	1,107	27	73	26										
		7	Excellent	5	25	578	29	1,201	30	88	32										
		—	Not applicable	0	0	12	1	14	0	2	1										
			Total	20	100	1,969	100	4,059	100	279	100										
b. Academic advisors	QIadvisor	1	Poor	0	0	138	7	213	5	15	5	6.1	4.9 **	.60	5.2 **	.50	5.0 **	.56			
		2		1	5	132	7	190	5	17	6										
		3		0	0	170	9	306	8	24	9										
		4		1	5	262	13	510	13	41	15										
		5		3	15	368	19	755	19	45	16										
		6		5	25	347	18	824	20	47	17										
		7	Excellent	10	50	531	27	1,220	30	83	30										
		—	Not applicable	0	0	18	1	42	1	6	2										
			Total	20	100	1,966	100	4,060	100	278	100										
c. Faculty	QIfaculty	1	Poor	0	0	38	2	50	1	5	2	5.9	5.3	.40	5.6	.26	5.4	.34			
		2		0	0	58	3	71	2	11	4										
		3		1	5	114	6	190	5	17	6										
		4		1	5	277	14	440	11	37	13										
		5		6	30	471	24	935	23	49	18										
		6		3	15	529	27	1,219	30	78	28										
		7	Excellent	9	45	465	24	1,139	28	77	28										
		—	Not applicable	0	0	12	1	13	0	3	1										
			Total	20	100	1,964	100	4,057	100	277	100										

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	1	5	100	5	177	4	16	6	5.1	4.9	.14	4.9	.13	5.0	.10	
		2		0	0	76	4	182	4	13	5								
		3		3	15	148	8	332	8	17	6								
		4		2	10	277	14	547	13	39	14								
		5		1	5	361	18	813	20	47	17								
		6		4	20	363	18	727	18	56	20								
		7	Excellent	5	25	328	17	703	17	54	19								
		—	Not applicable	4	20	316	16	579	14	37	13								
	Total			20	100	1,969	100	4,060	100	279	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	0	0	119	6	212	5	22	8	5.9	4.8 ***	.66	4.9 ***	.63	4.9 ***	.61	
		2		0	0	98	5	214	5	13	5								
		3		0	0	163	8	355	9	19	7								
		4		1	5	323	16	622	15	40	14								
		5		6	30	413	21	930	23	55	20								
		6		5	25	391	20	788	19	56	20								
		7	Excellent	7	35	346	18	782	19	57	21								
		—	Not applicable	1	5	116	6	156	4	15	5								
	Total			20	100	1,969	100	4,059	100	277	100								
<b>14. How much does your institution emphasize the following?</b>																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	0	0	41	2	67	2	4	1	3.1	3.1	-.06	3.2	-.16	3.1	-.02	
		2	Some	5	25	326	17	590	15	53	19								
		3	Quite a bit	8	40	899	46	1,776	44	127	46								
		4	Very much	7	35	697	36	1,616	40	94	34								
			Total			20	100	1,963	100	4,049	100								278
b. Providing support to help students succeed academically	SEacademic	1	Very little	0	0	91	5	177	4	9	3	3.2	3.0	.22	3.0	.15	2.9	.29	
		2	Some	5	25	457	23	870	21	74	27								
		3	Quite a bit	7	35	844	43	1,704	42	125	45								
		4	Very much	8	40	574	29	1,303	32	70	25								
			Total			20	100	1,966	100	4,054	100								278
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	2	10	111	6	229	6	18	6	3.0	3.0	-.09	3.0	-.09	2.9	.06	
		2	Some	4	20	420	21	842	21	74	27								
		3	Quite a bit	7	35	741	38	1,543	38	104	37								
		4	Very much	7	35	693	35	1,432	35	82	29								

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

		Frequency Distributions								Statistical Comparisons <sup>k</sup>								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
			Total	20	100	1,965	100	4,046	100	278	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>						
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with				
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	3	15	317	16	541	13	52	19	2.6	2.6	-.03	2.7	-.07	2.5	.07
		2	Some	5	25	574	29	1,254	31	89	32							
		3	Quite a bit	9	45	597	30	1,263	31	76	27							
		4	Very much	3	15	478	24	986	24	61	22							
		Total		20	100	1,966	100	4,044	100	278	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	4	20	160	8	276	7	23	8	2.8	2.8	-.05	2.9	-.08	2.8	-.01
		2	Some	1	5	512	26	1,070	27	81	29							
		3	Quite a bit	10	50	752	38	1,594	39	98	35							
		4	Very much	5	25	537	27	1,097	27	75	27							
		Total		20	100	1,961	100	4,037	100	277	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	2	10	219	11	417	10	21	8	3.1	2.8	.33	2.8	.32	2.8	.36
		2	Some	3	15	529	27	1,053	26	93	33							
		3	Quite a bit	6	30	689	35	1,489	37	93	33							
		4	Very much	9	45	530	27	1,078	27	71	26							
		Total		20	100	1,967	100	4,037	100	278	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	4	20	683	35	1,363	34	108	39	2.1	2.1	.03	2.1	.01	2.0	.12
		2	Some	11	55	690	35	1,417	35	94	34							
		3	Quite a bit	4	20	358	18	810	20	46	17							
		4	Very much	1	5	229	12	454	11	29	10							
		Total		20	100	1,960	100	4,044	100	277	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	0	0	246	13	578	14	43	15	3.0	2.7	.26	2.6 *	.36	2.6	.31
		2	Some	5	25	583	30	1,257	31	84	30							
		3	Quite a bit	11	55	665	34	1,390	34	82	29							
		4	Very much	4	20	472	24	815	20	69	25							
		Total		20	100	1,966	100	4,040	100	278	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	1	5	435	22	793	20	59	21	2.5	2.3	.18	2.4	.12	2.3	.20
		2	Some	10	50	731	37	1,507	37	111	40							
		3	Quite a bit	7	35	520	26	1,145	28	71	26							
		4	Very much	2	10	278	14	592	15	37	13							
		Total		20	100	1,964	100	4,037	100	278	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
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	7	0	7	0	1	0	<b>12.3</b>	16.1	-.43	17.0 *	-.54	15.9	-.41	
		(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	25	211	11	313	8	33								12
			8	6-10 hrs	5	25	410	21	786	19	57								20
			13	11-15 hrs	3	15	391	20	811	20	56								20
			18	16-20 hrs	3	15	368	19	834	21	48								17
			23	21-25 hrs	3	15	237	12	533	13	42								15
			28	26-30 hrs	1	5	140	7	335	8	15								5
			33	More than 30 hrs	0	0	201	10	436	11	27								10
			Total	20	100	1,965	100	4,055	100	279	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	4	20	722	37	1,430	35	93	33	<b>7.2</b>	5.2	.30	5.6	.21	5.4	.26	
		(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	7	35	599	31	1,287	32	93								33
			8	6-10 hrs	3	15	309	16	582	14	44								16
			13	11-15 hrs	3	15	155	8	305	8	21								8
			18	16-20 hrs	2	10	98	5	194	5	15								5
			23	21-25 hrs	1	5	41	2	118	3	8								3
			28	26-30 hrs	0	0	17	1	53	1	3								1
			33	More than 30 hrs	0	0	20	1	78	2	2								1
			Total	20	100	1,961	100	4,047	100	279	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	12	60	1,373	70	2,598	64	188	67	<b>4.7</b>	4.4	.04	4.1	.08	4.8	-.01	
		(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	3	15	48	2	296	7	5								2
			8	6-10 hrs	0	0	133	7	431	11	23								8
			13	11-15 hrs	3	15	138	7	345	9	18								6
			18	16-20 hrs	1	5	183	9	255	6	34								12
			23	21-25 hrs	0	0	59	3	63	2	8								3
			28	26-30 hrs	1	5	8	0	26	1	0								0
			33	More than 30 hrs	0	0	23	1	33	1	3								1
			Total	20	100	1,965	100	4,047	100	279	100								

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

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				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	10	50	940	48	1,793	44	127	46	<b>7.0</b>	10.6	-.29	10.8	-.32	11.2 *	-0.35	
	<i>(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	1	5	81	4	200	5	10	4								
		8	6-10 hrs	2	10	112	6	304	8	16	6								
		13	11-15 hrs	3	15	143	7	304	8	21	8								
		18	16-20 hrs	2	10	167	9	457	11	27	10								
		23	21-25 hrs	2	10	171	9	311	8	27	10								
		28	26-30 hrs	0	0	104	5	231	6	18	6								
		33	More than 30 hrs	0	0	243	12	450	11	33	12								
		Total			20	100	1,961	100	4,050	100	279	100							
Estimated number of hours working for pay	tmworkhrs											<b>11.7</b>	15.0	-.26	14.9	-.26	16.0	-.33	
	<i>(Continuous variable created by NSSE)</i>																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	6	30	771	39	1,758	43	113	41	<b>4.6</b>	3.9	.13	3.5	.21	3.6	.19	
	<i>(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	6	30	749	38	1,515	37	111	40								
		8	6-10 hrs	7	35	245	13	422	10	29	10								
		13	11-15 hrs	0	0	104	5	179	4	10	4								
		18	16-20 hrs	1	5	51	3	89	2	6	2								
		23	21-25 hrs	0	0	17	1	34	1	6	2								
		28	26-30 hrs	0	0	6	0	18	0	1	0								
		33	More than 30 hrs	0	0	17	1	27	1	1	0								
		Total			20	100	1,960	100	4,042	100	277	100							
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	1	5	50	3	110	3	10	4	<b>7.1</b>	10.3 *	-.41	10.2 *	-.41	9.9 *	-.37	
	<i>(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	8	40	575	29	1,208	30	89	32								
		8	6-10 hrs	7	35	597	30	1,159	29	80	29								
		13	11-15 hrs	2	10	330	17	737	18	38	14								
		18	16-20 hrs	2	10	208	11	425	10	30	11								
		23	21-25 hrs	0	0	84	4	200	5	16	6								
		28	26-30 hrs	0	0	29	1	69	2	8	3								
		33	More than 30 hrs	0	0	87	4	144	4	7	3								
		Total			20	100	1,960	100	4,052	100	278	100							



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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	16	80	1,284	66	2,773	69	185	67	<b>3.9</b>	4.6	-0.08	4.3	-0.05	5.2	-0.13	
	<i>(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	1	5	257	13	504	12	29	10								
	8	6-10 hrs	0	0	116	6	210	5	14	5									
	13	11-15 hrs	0	0	76	4	120	3	11	4									
	18	16-20 hrs	1	5	58	3	89	2	10	4									
	23	21-25 hrs	1	5	24	1	49	1	2	1									
	28	26-30 hrs	0	0	18	1	35	1	3	1									
	33	More than 30 hrs	1	5	125	6	266	7	24	9									
Total				20	100	1,958	100	4,046	100	278	100								
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	1	5	173	9	722	18	38	14	<b>4.1</b>	6.4 *	-0.36	5.5	-0.23	6.1 *	-0.28	
	<i>(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	16	80	1,004	51	2,012	50	154	56								
	8	6-10 hrs	2	10	452	23	772	19	42	15									
	13	11-15 hrs	0	0	189	10	292	7	17	6									
	18	16-20 hrs	1	5	62	3	92	2	10	4									
	23	21-25 hrs	0	0	25	1	58	1	3	1									
	28	26-30 hrs	0	0	17	1	25	1	3	1									
	33	More than 30 hrs	0	0	41	2	84	2	10	4									
Total				20	100	1,963	100	4,057	100	277	100								
<b>16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?</b>																			
reading	1	Very little	4	20	360	18	666	16	60	22	<b>2.6</b>	2.6	.03	2.6	.00	2.5	.12		
	2	Some	6	30	687	35	1,396	34	97	35									
	3	About half	5	25	494	25	1,113	27	64	23									
	4	Most	4	20	298	15	648	16	40	14									
	5	Almost all	1	5	124	6	232	6	15	5									
	Total			20	100	1,963	100	4,055	100	276								100	
tmreadinghrs																			
<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>												<b>5.7</b>	6.8	-0.17	7.2	-0.24	6.3	-0.10	

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

		Frequency Distributions										Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name <sup>j</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
	treadinghrscol	1	0 hrs	0	0	7	0	7	0	1	0								
	(Collapsed version of treadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	13	65	1,028	53	1,965	49	140	51								
		3	More than 5, up to 10 hrs	3	15	523	27	1,172	29	88	32								
		4	More than 10, up to 15 hrs	2	10	181	9	432	11	23	8								
		5	More than 15, up to 20 hrs	1	5	103	5	229	6	12	4								
		6	More than 20, up to 25 hrs	1	5	65	3	171	4	7	3								
		7	More than 25 hrs	0	0	51	3	71	2	5	2								
			Total	20	100	1,958	100	4,047	100	276	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	2	10	152	8	190	5	22	8	<b>2.6</b>	2.9	-.37	3.0 *	-.57	2.9	-.41
		2	Some	7	35	476	24	814	20	64	23							
		3	Quite a bit	9	45	761	39	1,687	42	104	38							
		4	Very much	2	10	568	29	1,348	33	87	31							
			Total	20	100	1,957	100	4,039	100	277	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	2	10	197	10	253	6	21	8	<b>3.0</b>	2.8	.15	3.0	.00	2.9	.10
		2	Some	1	5	524	27	978	24	84	30							
		3	Quite a bit	13	65	698	36	1,525	38	87	31							
		4	Very much	4	20	542	28	1,293	32	87	31							
			Total	20	100	1,961	100	4,049	100	279	100							
c. Thinking critically and analytically	pgthink	1	Very little	1	5	44	2	65	2	7	3	<b>3.3</b>	3.2	.01	3.4	-.14	3.2	.01
		2	Some	1	5	297	15	451	11	49	18							
		3	Quite a bit	10	50	753	38	1,519	38	92	33							
		4	Very much	8	40	865	44	2,013	50	131	47							
			Total	20	100	1,959	100	4,048	100	279	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	1	5	93	5	116	3	12	4	<b>3.1</b>	3.1	.00	3.2	-.15	3.0	.04
		2	Some	3	15	416	21	721	18	69	25							
		3	Quite a bit	10	50	743	38	1,571	39	99	36							
		4	Very much	6	30	708	36	1,641	41	98	35							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Frequency Distributions								Statistical Comparisons <sup>k</sup>					
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		<i>Your seniors compared with</i>					
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers		
										Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	
		Total		20	100	1,960	100	4,049	100	278	100						

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>						
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with				
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	3	15	291	15	442	11	35	13	2.7	2.7	-.03	2.8	-.13	2.8	-.12
		2	Some	6	30	546	28	1,130	28	75	27							
		3	Quite a bit	6	30	626	32	1,389	34	88	32							
		4	Very much	5	25	497	25	1,092	27	80	29							
		Total		20	100	1,960	100	4,053	100	278	100							
f. Working effectively with others	pgothers	1	Very little	1	5	121	6	169	4	13	5	2.8	3.0	-.23	3.0	-.35	3.1	-.40
		2	Some	7	35	467	24	852	21	52	19							
		3	Quite a bit	8	40	756	39	1,650	41	110	39							
		4	Very much	4	20	619	32	1,382	34	104	37							
		Total		20	100	1,963	100	4,053	100	279	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	2	10	276	14	449	11	34	12	2.5	2.7	-.18	2.8	-.31	2.8	-.26
		2	Some	9	45	566	29	1,051	26	78	28							
		3	Quite a bit	6	30	635	32	1,419	35	88	32							
		4	Very much	3	15	488	25	1,128	28	79	28							
		Total		20	100	1,965	100	4,047	100	279	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	3	15	235	12	424	10	30	11	2.7	2.7	-.04	2.8	-.10	2.8	-.07
		2	Some	3	15	572	29	1,107	27	87	31							
		3	Quite a bit	11	55	611	31	1,369	34	78	28							
		4	Very much	3	15	539	28	1,148	28	82	30							
		Total		20	100	1,957	100	4,048	100	277	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	1	5	226	12	393	10	38	14	2.8	2.7	.10	2.8	.02	2.7	.13
		2	Some	4	20	602	31	1,166	29	77	28							
		3	Quite a bit	13	65	661	34	1,431	35	100	36							
		4	Very much	2	10	470	24	1,064	26	62	22							
		Total		20	100	1,959	100	4,054	100	277	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	3	15	300	15	527	13	40	14	2.7	2.6	.08	2.7	-.03	2.6	.02
		2	Some	5	25	643	33	1,227	30	85	31							
		3	Quite a bit	8	40	618	31	1,297	32	90	32							
		4	Very much	4	20	402	20	1,000	25	62	22							
		Total		20	100	1,963	100	4,051	100	277	100							

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

## Frequencies and Statistical Comparisons: Biology

### Angelo State University

#### Seniors<sup>a</sup> in Biology

				Frequency Distributions								Statistical Comparisons <sup>k</sup>							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name <sup>l</sup>	Values <sup>m</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>n</sup>		Mean	Effect size <sup>n</sup>	Mean	Effect size <sup>n</sup>
														Effect size <sup>n</sup>	Effect size <sup>n</sup>				
<b>18. How would you evaluate your entire educational experience at this institution?</b>																			
	evalexp	1	Poor	0	0	51	3	83	2	12	4	<b>3.4</b>	3.1	.34	3.2	.24	3.1	.32	
		2	Fair	2	10	311	16	553	14	40	14								
		3	Good	8	40	917	47	1,822	45	124	44								
		4	Excellent	10	50	691	35	1,606	40	103	37								
		Total		20	100	1,970	100	4,064	100	279	100								
<b>19. If you could start over again, would you go to the same institution you are now attending?</b>																			
	sameinst	1	Definitely no	1	5	111	6	215	5	22	8	<b>3.5</b>	3.2	.34	3.1	.36	3.2	.30	
		2	Probably no	2	10	258	13	616	15	30	11								
		3	Probably yes	4	20	816	41	1,626	40	105	38								
		4	Definitely yes	13	65	790	40	1,613	40	123	44								
		Total		20	100	1,975	100	4,070	100	280	100								

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

## Respondent Profile: Biology

### Angelo State University

#### Biology

#### First-Year Students<sup>a</sup>

#### Seniors<sup>a</sup>

Item wording or description	Variable name	Response options	First-Year Students <sup>a</sup>								Seniors <sup>a</sup>							
			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	18	78	1,433	84	3,457	85	227	83	16	80	1,688	85	3,439	85	250	89
		More than one	5	22	280	16	589	15	47	17	4	20	291	15	627	15	30	11
		Total	23	100	1,713	100	4,046	100	274	100	20	100	1,979	100	4,066	100	280	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 (Recoded from MAJfirst.)	Arts & Humanities	0	0	4	0	14	0	0	0	0	0	9	0	12	0	0	0
		Biological Sci., Agriculture, & Natural Resources	21	91	1,656	96	3,912	96	262	95	20	100	1,911	96	3,900	96	266	95
		Physical Sci., Mathematics, & Computer Science	1	4	11	1	31	1	1	0	0	0	13	1	34	1	4	1
		Social Sciences	0	0	9	1	21	1	0	0	0	0	16	1	40	1	3	1
		Business	0	0	4	0	14	0	1	0	0	0	5	0	14	0	1	0
		Communications, Media, & Public Relations	0	0	2	0	2	0	0	0	0	0	0	0	1	0	0	0
		Education	0	0	0	0	10	0	0	0	0	0	1	0	7	0	1	0
		Engineering	0	0	4	0	10	0	2	1	0	0	5	0	5	0	1	0
		Health Professions	1	4	19	1	31	1	7	3	0	0	17	1	35	1	3	1
		Social Service Professions	0	0	13	1	16	0	2	1	0	0	5	0	30	1	2	1
		All Other	0	0	1	0	4	0	0	0	0	0	2	0	4	0	0	0
		Undecided, Undeclared	0	0	0	0	6	0	0	0	0	0	0	0	1	0	0	0
		Total	23	100	1,723	100	4,071	100	275	100	20	100	1,984	100	4,083	100	281	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 (Recoded from MAJsecond.)	Arts & Humanities	0	0	26	9	49	8	3	6	0	0	45	16	72	12	1	3
		Biological Sci., Agriculture, & Natural Resources	2	40	119	43	249	43	19	40	1	25	115	40	277	44	18	60
		Physical Sci., Mathematics, & Computer Science	1	20	25	9	66	11	10	21	2	50	24	8	68	11	7	23
		Social Sciences	0	0	25	9	56	10	1	2	1	25	39	13	62	10	0	0
		Business	0	0	12	4	17	3	1	2	0	0	4	1	11	2	0	0
		Communications, Media, & Public Relations	0	0	3	1	3	1	0	0	0	0	0	0	3	0	0	0
		Education	0	0	6	2	15	3	1	2	0	0	1	0	22	4	0	0
		Engineering	0	0	6	2	6	1	2	4	0	0	6	2	7	1	1	3
		Health Professions	1	20	36	13	79	14	7	15	0	0	41	14	70	11	2	7
		Social Service Professions	1	20	10	4	15	3	1	2	0	0	8	3	12	2	0	0
		All Other	0	0	2	1	3	1	0	0	0	0	4	1	7	1	0	0
		Undecided, Undeclared	0	0	10	4	27	5	2	4	0	0	3	1	14	2	1	3
		Total	5	100	280	100	585	100	47	100	4	100	290	100	625	100	30	100
22. What is your class level?	class	Freshman/First-year	17	74	1,384	82	3,547	89	205	76	0	0	5	0	13	0	1	0
		Sophomore	6	26	256	15	371	9	64	24	0	0	22	1	21	1	0	0
		Junior	0	0	38	2	47	1	0	0	3	15	206	11	301	7	18	7
		Senior	0	0	4	0	11	0	0	0	15	75	1,689	86	3,647	90	252	92
		Unclassified	0	0	6	0	22	1	1	0	2	10	38	2	69	2	3	1
		Total	23	100	1,688	100	3,998	100	270	100	20	100	1,960	100	4,051	100	274	100

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

## Respondent Profile: Biology

### Angelo State University

Biology			First-Year Students <sup>a</sup>								Seniors <sup>a</sup>							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
23. Thinking about this current academic term, are you a full-time student?	fulltime	No	1	5	61	4	113	3	14	5	3	15	345	18	638	16	42	15
		Yes	21	95	1,621	96	3,867	97	256	95	17	85	1,610	82	3,388	84	232	85
		Total	22	100	1,682	100	3,980	100	270	100	20	100	1,955	100	4,026	100	274	100
24a. How many courses are you taking for credit this current academic term?	coursenum	0	0	0	7	0	24	1	4	1	1	5	42	2	99	2	5	2
		1	0	0	9	1	17	0	0	0	1	5	35	2	113	3	4	1
		2	0	0	24	1	49	1	3	1	0	0	94	5	207	5	13	5
		3	2	9	60	4	166	4	15	6	2	10	209	11	471	12	33	12
		4	7	32	393	23	1,019	25	61	23	8	40	574	29	1,196	30	98	36
		5	11	50	569	34	1,338	33	84	31	6	30	542	28	1,010	25	72	26
		6	1	5	392	23	787	20	62	23	1	5	237	12	482	12	25	9
		7 or more	1	5	233	14	599	15	41	15	1	5	229	12	472	12	26	9
Total	22	100	1,687	100	3,999	100	270	100	20	100	1,962	100	4,050	100	276	100		
b. Of these, how many are entirely online?	onlinenum	0	18	86	1,236	74	3,313	83	227	85	14	70	1,305	67	2,899	72	193	71
		1	3	14	298	18	453	11	24	9	4	20	420	21	751	19	51	19
		2	0	0	96	6	117	3	11	4	0	0	125	6	235	6	18	7
		3	0	0	27	2	44	1	2	1	2	10	56	3	75	2	7	3
		4	0	0	9	1	15	0	2	1	0	0	26	1	38	1	1	0
		5	0	0	5	0	15	0	1	0	0	0	6	0	5	0	1	0
		6	0	0	5	0	8	0	0	0	0	0	6	0	13	0	0	0
		7 or more	0	0	2	0	13	0	1	0	0	0	10	1	10	0	1	0
Total	21	100	1,678	100	3,978	100	268	100	20	100	1,954	100	4,026	100	272	100		
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum.)	onlinecscol	No courses taken online	18	86	1,236	74	3,313	83	227	85	14	70	1,305	67	2,899	72	193	71
		Some courses taken online	3	14	405	24	581	15	38	14	6	30	579	30	979	24	74	27
		All courses taken online	0	0	37	2	84	2	3	1	0	0	70	4	148	4	5	2
		Total	21	100	1,678	100	3,978	100	268	100	20	100	1,954	100	4,026	100	272	100
25. What have most of your grades been up to now at this institution?	grades	C- or lower	0	0	22	1	80	2	6	2	0	0	19	1	16	0	3	1
		C	2	9	53	3	121	3	7	3	0	0	57	3	98	2	6	2
		C+	1	4	77	5	193	5	14	5	2	11	138	7	218	5	20	7
		B-	1	4	105	6	299	7	22	8	3	16	147	8	284	7	26	9
		B	2	9	281	17	677	17	53	20	0	0	346	18	750	19	48	17
		B+	5	22	290	17	714	18	53	20	4	21	342	17	742	18	53	19
		A-	3	13	356	21	780	20	41	15	0	0	339	17	767	19	36	13
		A	9	39	504	30	1,128	28	73	27	10	53	570	29	1,165	29	83	30
Total	23	100	1,688	100	3,992	100	269	100	19	100	1,958	100	4,040	100	275	100		
26. Did you begin college at this institution or elsewhere?	begincol	Started here	19	83	1,500	89	3,684	92	231	86	12	60	1,056	54	2,470	61	143	52
		Started elsewhere	4	17	185	11	301	8	38	14	8	40	901	46	1,568	39	130	48
		Total	23	100	1,685	100	3,985	100	269	100	20	100	1,957	100	4,038	100	273	100

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

## Respondent Profile: Biology

### Angelo State University

#### Biology

#### First-Year Students<sup>a</sup>

#### Seniors<sup>a</sup>

Item wording or description	Variable name	Response options	First-Year Students <sup>a</sup>								Seniors <sup>a</sup>							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	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	1	4	46	3	127	3	8	3	0	0	111	6	235	6	11	4
	attend_com	Community or junior college	5	22	233	14	345	9	44	16	5	25	1,058	54	1,542	38	140	51
	attend_col	4-year college or university other than this one	1	4	166	10	318	8	26	10	5	25	522	27	1,002	25	69	25
	attend_none	None	17	74	1,229	73	3,170	80	194	72	10	50	631	32	1,790	44	90	33
	attend_other	Other	0	0	43	3	111	3	8	3	1	5	56	3	130	3	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	1	4	130	8	282	7	32	12	0	0	130	7	228	6	18	7
		Bachelor's degree (B.A., B.S., etc.)	5	22	276	16	672	17	46	17	4	20	322	16	811	20	58	21
		Master's degree (M.A., M.S., etc.)	4	17	261	16	829	21	50	19	5	25	444	23	1,022	25	68	25
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	13	57	1,016	60	2,199	55	142	53	11	55	1,057	54	1,976	49	130	47
		Total	23	100	1,683	100	3,982	100	270	100	20	100	1,953	100	4,037	100	274	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	2	9	149	9	261	7	18	7	1	5	181	9	262	7	26	10
		High school diploma or G.E.D.	6	26	292	17	710	18	50	19	4	20	368	19	742	18	56	21
		Attended college, but did not complete degree	1	4	184	11	448	11	31	11	1	5	195	10	437	11	30	11
		Associate's degree (A.A., A.S., etc.)	0	0	131	8	428	11	29	11	3	15	158	8	428	11	21	8
		Bachelor's degree (B.A., B.S., etc.)	5	22	474	28	1,065	27	80	30	2	10	501	26	1,163	29	69	25
		Master's degree (M.A., M.S., etc.)	8	35	293	17	736	19	49	18	6	30	342	18	686	17	50	18
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	1	4	154	9	315	8	13	5	3	15	203	10	312	8	19	7
		Total	23	100	1,677	100	3,963	100	270	100	20	100	1,948	100	4,030	100	271	100
First-generation status (Neither parent holds a bachelor's degree.)	firstgen (Recorded from parented.)	Not first-generation	14	61	921	55	2,116	53	142	53	11	55	1,046	54	2,161	54	138	51
		First-generation	9	39	756	45	1,847	47	128	47	9	45	902	46	1,869	46	133	49
		Total	23	100	1,677	100	3,963	100	270	100	20	100	1,948	100	4,030	100	271	100
30. What is your gender identity?	genderid	Man	7	30	434	26	946	24	60	22	4	20	615	32	1,168	29	80	30
		Woman	16	70	1,215	72	2,970	75	202	75	16	80	1,302	67	2,784	69	188	70
		Another gender identity	0	0	15	1	31	1	4	1	0	0	9	0	29	1	1	0
		I prefer not to respond	0	0	16	1	35	1	4	1	0	0	18	1	56	1	1	0
		Total	23	100	1,680	100	3,982	100	270	100	20	100	1,944	100	4,037	100	270	100
31. Enter your year of birth (e.g., 1994):	agecat (Recorded from the information entered in birthyear.)	19 or younger	21	91	1,569	94	3,681	93	251	93	0	0	34	2	39	1	3	1
		20-23	2	9	78	5	173	4	13	5	17	85	1,344	69	2,888	72	195	73
		24-29	0	0	18	1	65	2	3	1	2	10	349	18	683	17	36	13
		30-39	0	0	10	1	30	1	2	1	1	5	157	8	286	7	22	8
		40-55	0	0	0	0	13	0	0	0	0	0	46	2	104	3	10	4
		Over 55	0	0	0	0	1	0	0	0	0	0	5	0	6	0	2	1
		Total	23	100	1,675	100	3,963	100	269	100	20	100	1,953	100	4,037	100	271	100



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

## Respondent Profile: Biology

### Angelo State University

#### Biology

#### First-Year Students<sup>a</sup>

#### Seniors<sup>a</sup>

Item wording or description	Variable name	Response options	First-Year Students <sup>a</sup>								Seniors <sup>a</sup>								
			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	23	100	1,632	97	3,863	97	265	99	19	95	1,876	97	3,915	97	257	95	
		Yes	0	0	47	3	105	3	4	1	1	5	63	3	110	3	13	5	
		Total	23	100	1,679	100	3,968	100	269	100	20	100	1,939	100	4,025	100	270	100	
	countrycol <i>(Recoded from country.)</i>	Africa Sub-Saharan	0	0	12	28	16	17	2	50	0	0	9	15	15	15	1	8	
		Asia	0	0	13	30	29	31	0	0	1	100	21	35	30	30	1	8	
		Canada	0	0	0	0	1	1	0	0	0	0	4	7	10	10	0	0	
		Europe	0	0	5	12	20	21	1	25	0	0	3	5	9	9	0	0	
		Latin America and Caribbean	0	0	9	21	21	22	1	25	0	0	18	30	28	28	10	83	
		Middle East and North Africa	0	0	3	7	6	6	0	0	0	0	4	7	7	7	0	0	
		Oceania	0	0	1	2	2	2	0	0	0	0	1	2	1	1	0	0	
Unknown region/uncoded		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	0	0	43	100	95	100	4	100	1	100	60	100	100	100	12	100			
33. How would you describe yourself? (Select all that apply.)	re_amind	American Indian or Alaska Native	0	0	78	5	112	3	12	4	0	0	71	4	101	3	9	3	
	re_asian	Asian	1	4	273	16	368	9	10	4	3	15	330	17	397	10	15	6	
	re_black	Black or African American	0	0	197	12	521	13	58	22	0	0	182	9	342	8	35	13	
	re_latino	Hispanic or Latina/o	13	57	599	36	844	21	82	31	5	25	564	29	731	18	70	26	
	re_mena	Middle Eastern or N. African (2019)	0	0	22	2	30	1	1	1	0	0	34	3	47	2	3	2	
	re_pacific	Native Hawaiian/Other Pac. Islander	0	0	17	1	56	1	2	1	0	0	15	1	48	1	0	0	
	re_white	White	12	52	726	44	2,382	60	132	49	13	65	937	48	2,583	64	158	58	
	re_another	Another race or ethnicity (2019)	1	4	4	0	26	1	0	0	0	0	21	2	40	2	3	2	
	re_other	Other (2018)	0	0	13	2	36	2	1	1	0	0	24	3	46	3	2	2	
	re_pnr	I prefer not to respond	2	9	39	2	90	2	8	3	0	0	51	3	128	3	8	3	
	Racial or ethnic identification	re_all19	American Indian or Alaska Native	0	0	18	1	20	1	3	1	0	0	18	1	25	1	4	1
		<i>(Items re_amind to re_pnr recoded where each student is represented only once)</i>	Asian	0	0	231	14	271	7	7	3	2	10	288	15	308	8	14	5
			Black or African American	0	0	151	9	387	10	48	18	0	0	136	7	262	7	31	11
			Hispanic or Latina/o	9	39	436	26	626	16	58	22	5	25	417	22	552	14	49	18
Middle Eastern or N. African (2019)			0	0	14	1	14	0	1	0	0	0	23	1	33	1	3	1	
Native Hawaiian/Other Pac. Islander			0	0	4	0	9	0	0	0	0	0	3	0	10	0	0	0	
White			7	30	500	30	2,063	52	105	39	12	60	719	37	2,294	57	131	48	
Another race or ethnicity (2019)			0	0	1	0	11	0	0	0	0	0	9	0	16	0	1	0	
Other (2018)			0	0	7	0	25	1	1	0	0	0	14	1	24	1	1	0	
Multiracial			5	22	267	16	435	11	37	14	1	5	261	13	375	9	29	11	
I prefer not to respond	2	9	39	2	90	2	8	3	0	0	51	3	128	3	8	3			
Total	23	100	1,668	100	3,951	100	268	100	20	100	1,939	100	4,027	100	271	100			
34. Are you a member of a social fraternity or sorority?	greek	No	22	96	1,542	92	3,729	94	238	88	19	95	1,741	90	3,643	90	233	86	
		Yes	1	4	140	8	237	6	31	12	1	5	202	10	390	10	39	14	
		Total	23	100	1,682	100	3,966	100	269	100	20	100	1,943	100	4,033	100	272	100	

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

## Respondent Profile: Biology

### Angelo State University

Biology			First-Year Students <sup>a</sup>								Seniors <sup>a</sup>							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
Item wording or description	Variable name	Response options	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)	17	74	894	54	2,452	62	180	67	2	11	186	10	775	19	54	20
		Fraternity or sorority house	0	0	7	0	9	0	2	1	0	0	14	1	18	0	1	0
		House, apartment, or other residence within walking distance to campus	2	9	117	7	234	6	19	7	5	26	392	20	864	22	42	15
		House, apartment, or other residence farther than walk. dist. to campus	4	17	625	38	1,189	30	62	23	12	63	1,302	67	2,226	56	171	63
		Not applicable: No campus, entirely online program, etc.	0	0	14	1	53	1	2	1	0	0	42	2	117	3	3	1
		Not applicable: Homeless or in transition	0	0	7	0	16	0	2	1	0	0	5	0	10	0	1	0
		Total	23	100	1,664	100	3,953	100	267	100	19	100	1,941	100	4,010	100	272	100
36. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No	18	78	1,621	97	3,524	89	252	94	19	95	1,897	98	3,714	92	264	97
		Yes	5	22	53	3	435	11	17	6	1	5	38	2	309	8	7	3
		Total	23	100	1,674	100	3,959	100	269	100	20	100	1,935	100	4,023	100	271	100
37. Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard?	veteran	No	23	100	1,662	99	3,912	99	266	99	20	100	1,868	96	3,803	94	261	97
		Yes	0	0	12	1	52	1	3	1	0	0	69	4	222	6	9	3
		Total	23	100	1,674	100	3,964	100	269	100	20	100	1,937	100	4,025	100	270	100
38a. Have you been diagnosed with any disability or impairment?	disability	No	22	96	1,449	86	3,379	85	235	88	16	80	1,677	86	3,385	84	230	85
		Yes	0	0	171	10	458	12	27	10	3	15	208	11	514	13	34	13
		I prefer not to respond	1	4	56	3	130	3	5	2	1	5	57	3	135	3	7	3
		Total	23	100	1,676	100	3,967	100	267	100	20	100	1,942	100	4,034	100	271	100
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense	A sensory impairment (vision or hearing)	0	0	33	19	70	15	6	22	1	33	18	9	45	9	3	9
	dis_mobility	A mobility impairment	0	0	10	6	36	8	0	0	0	0	16	8	42	8	4	12
	dis_learning	A learning disability (e.g., ADHD, dyslexia)	0	0	64	38	182	40	11	41	0	0	80	39	194	38	16	47
	dis_mental	A mental health disorder	0	0	72	42	238	52	12	44	1	33	107	52	259	51	13	38
	dis_other	A disability or impairment not listed above	0	0	31	18	67	15	5	19	1	33	40	19	111	22	9	26
Disability or impairment	disability_all	A sensory impairment	0	0	24	1	41	1	3	1	1	5	12	1	25	1	0	0
	(Items dis_sense to dis_other recoded where each student is represented only once.)	A mobility impairment	0	0	4	0	15	0	0	0	0	0	8	0	20	0	1	0
		A learning disability	0	0	42	3	110	3	7	3	0	0	45	2	121	3	11	4
		A mental health disorder	0	0	46	3	145	4	6	2	1	5	65	3	170	4	8	3
		A disability or impairment not listed	0	0	22	1	34	1	4	1	1	5	26	1	65	2	5	2
		More than one disability or impairment	0	0	32	2	112	3	7	3	0	0	50	3	111	3	9	3
		No disability or impairment	22	96	1,449	87	3,379	85	235	88	16	80	1,677	86	3,385	84	230	85
	Prefer not to respond	1	4	56	3	130	3	5	2	1	5	57	3	135	3	7	3	

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

Respondent Profile: **Biology**

**Angelo State University**

<b>Biology</b>			<b>First-Year Students<sup>a</sup></b>								<b>Seniors<sup>a</sup></b>							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
<i>Item wording or description</i>	<i>Variable name</i>	<i>Response options</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>		
		Total	23	100	1,675	100	3,966	100	267	100	20	100	1,940	100	4,032	100	271	100

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

## Respondent Profile: Biology

### Angelo State University

#### Biology

#### First-Year Students<sup>a</sup>

#### Seniors<sup>a</sup>

Item wording or description	Variable name	Response options	First-Year Students <sup>a</sup>								Seniors <sup>a</sup>							
			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)	21	91	1,372	82	3,325	84	217	80	15	79	1,613	83	3,383	84	234	86
		Bisexual	2	9	129	8	269	7	23	9	3	16	132	7	232	6	11	4
		Gay	0	0	20	1	50	1	4	1	0	0	41	2	73	2	3	1
		Lesbian	0	0	19	1	56	1	1	0	0	0	13	1	41	1	1	0
		Queer	0	0	13	1	24	1	2	1	0	0	14	1	30	1	2	1
		Questioning or unsure	0	0	27	2	55	1	3	1	0	0	26	1	43	1	4	1
		Another sexual orientation	0	0	37	2	44	1	7	3	0	0	21	1	53	1	2	1
		I prefer not to respond	0	0	61	4	147	4	13	5	1	5	83	4	178	4	14	5
<b>Total</b>			<b>23</b>	<b>100</b>	<b>1,678</b>	<b>100</b>	<b>3,970</b>	<b>100</b>	<b>270</b>	<b>100</b>	<b>19</b>	<b>100</b>	<b>1,943</b>	<b>100</b>	<b>4,033</b>	<b>100</b>	<b>271</b>	<b>100</b>

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

Institution-reported: Sex	IRsex19	Female	16	70	1,267	73	3,096	76	208	76	16	80	1,351	68	2,856	70	198	70
		Male	7	30	457	27	974	24	67	24	4	20	633	32	1,220	30	83	30
		Another	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Unknown	0	0	0	0	1	0	0	0	0	0	0	0	6	0	0	0
		<b>Total</b>			<b>23</b>	<b>100</b>	<b>1,724</b>	<b>100</b>	<b>4,071</b>	<b>100</b>	<b>275</b>	<b>100</b>	<b>20</b>	<b>100</b>	<b>1,984</b>	<b>100</b>	<b>4,082</b>	<b>100</b>
Institution-reported: Race or ethnicity	IRrace	American Indian or Alaska Native	0	0	16	1	17	0	2	1	0	0	17	1	24	1	1	0
		Asian	0	0	230	14	254	7	7	3	1	5	277	15	280	8	10	4
		Black or African American	0	0	138	8	392	11	46	19	0	0	129	7	229	6	27	11
		Hispanic or Latino	14	61	630	38	702	20	78	32	5	25	549	29	591	16	68	27
		Native Hawaiian/Other Pac. Islander	0	0	4	0	15	0	0	0	0	0	4	0	6	0	0	0
		White	9	39	507	30	1,843	51	101	41	12	60	733	38	2,138	58	130	51
		Other	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
		Foreign or nonresident	0	0	42	3	103	3	1	0	1	5	64	3	101	3	9	4
		Two or more races/ethnicities	0	0	76	5	148	4	7	3	1	5	82	4	134	4	4	2
		<b>Total</b>			<b>23</b>	<b>100</b>	<b>1,676</b>	<b>100</b>	<b>3,592</b>	<b>100</b>	<b>244</b>	<b>100</b>	<b>20</b>	<b>100</b>	<b>1,910</b>	<b>100</b>	<b>3,656</b>	<b>100</b>
Institution-reported: Class level	IRclass	Freshman/First-Year	23	100	1,724	100	4,071	100	275	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	20	100	1,984	100	4,083	100	281	100
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		<b>Total</b>			<b>23</b>	<b>100</b>	<b>1,724</b>	<b>100</b>	<b>4,071</b>	<b>100</b>	<b>275</b>	<b>100</b>	<b>20</b>	<b>100</b>	<b>1,984</b>	<b>100</b>	<b>4,083</b>	<b>100</b>
Institution-reported: First-time first-year (FTFY) student	IRftfy	Not first-time first-year	2	9	172	10	366	9	34	12	20	100	1,965	99	4,052	99	281	100
		First-time first-year	21	91	1,552	90	3,705	91	241	88	0	0	19	1	31	1	0	0
		<b>Total</b>			<b>23</b>	<b>100</b>	<b>1,724</b>	<b>100</b>	<b>4,071</b>	<b>100</b>	<b>275</b>	<b>100</b>	<b>20</b>	<b>100</b>	<b>1,984</b>	<b>100</b>	<b>4,083</b>	<b>100</b>
Institution-reported: Enrollment status	IRenrollment	Not full-time	0	0	81	5	137	3	8	3	3	15	347	17	584	14	44	16
		Full-time	23	100	1,643	95	3,934	97	267	97	17	85	1,637	83	3,499	86	237	84

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

Respondent Profile: Biology

Angelo State University

## Biology

### First-Year Students<sup>a</sup>





### Seniors<sup>a</sup>

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	23	100	1,724	100	4,071	100	275	100	20	100	1,984	100	4,083	100	281

## 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.

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