
Angelo State University

NSSE 2019 Major Field Report, Part II

Comparisons to Other Institutions

Engineering

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 'Engineering' includes the following majors: Aero-, astronautical engineering; Bioengineering; Biomedical engineering; Chemical engineering; Civil engineering; Computer engineering and technology; Electrical or electronic engineering; Engineering (general); Industrial engineering; Materials engineering; Mechanical engineering; Other engineering; Petroleum engineering; Software engineering.

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: Engineering.

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.

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

Item wording or description				Frequency Distributions								Statistical Comparisons ^k											
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers					
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ				
1. During the current school year, about how often have you done the following?				Your first-year students compared with																			
a. Asked questions or contributed to course discussions in other ways				askquest		1 Never		2 Sometimes		3 Often		4 Very often		Total									
				0	0	71	6	68	4	5	3												
				0	0	518	41	673	37	58	30												
				6	86	440	35	702	38	92	47												
				1	14	222	18	384	21	39	20												
				7	100	1,251	100	1,827	100	194	100												
b. Prepared two or more drafts of a paper or assignment before turning it in				drafts		1 Never		2 Sometimes		3 Often		4 Very often		Total									
				1	14	246	20	286	16	31	16												
				2	29	477	38	698	38	82	42												
				3	43	341	27	539	30	48	25												
				1	14	189	15	301	17	33	17												
				7	100	1,253	100	1,824	100	194	100												
c. Come to class without completing readings or assignments				unpreparedr (Reverse-coded version of unprepared created by NSSE.)		1 Very often		2 Often		3 Sometimes		4 Never		Total									
				1	14	57	5	71	4	6	3												
				0	0	171	14	196	11	15	8												
				3	43	732	58	1,043	57	119	61												
				3	43	292	23	521	28	54	28												
				7	100	1,252	100	1,831	100	194	100												
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)				attendart		1 Never		2 Sometimes		3 Often		4 Very often		Total									
				5	71	580	46	861	47	87	45												
				1	14	461	37	666	36	81	42												
				1	14	146	12	207	11	16	8												
				0	0	65	5	96	5	11	6												
				7	100	1,252	100	1,830	100	195	100												
e. Asked another student to help you understand course material				CLaskhelp		1 Never		2 Sometimes		3 Often		4 Very often		Total									
				0	0	89	7	151	8	15	8												
				2	29	406	32	655	36	67	34												
				2	29	470	37	668	36	75	38												
				3	43	289	23	360	20	38	19												
				7	100	1,254	100	1,834	100	195	100												
f. Explained course material to one or more students				CLexplain		1 Never		2 Sometimes		3 Often		4 Very often		Total									
				0	0	40	3	100	5	6	3												
				2	29	388	31	617	34	64	33												
				2	29	508	40	714	39	80	41												
				3	43	319	25	402	22	45	23												
				7	100	1,255	100	1,833	100	195	100												

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Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	0	0	155	12	257	14	20	10								
		2	Sometimes	2	29	374	30	614	33	59	30								
		3	Often	2	29	439	35	588	32	69	36								
		4	Very often	3	43	288	23	375	20	46	24								
			Total	7	100	1,256	100	1,834	100	194	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	0	0	50	4	139	8	12	6								
		2	Sometimes	2	29	391	31	563	31	61	31								
		3	Often	2	29	529	42	734	40	80	41								
		4	Very often	3	43	283	23	391	21	42	22								
			Total	7	100	1,253	100	1,827	100	195	100								
i. Given a course presentation	present	1	Never	0	0	263	21	349	19	33	17								
		2	Sometimes	4	57	601	48	832	45	94	48								
		3	Often	0	0	288	23	455	25	46	24								
		4	Very often	3	43	105	8	198	11	22	11								
			Total	7	100	1,257	100	1,834	100	195	100								
2. During the current school year, about how often have you done the following?																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	0	0	113	9	149	8	18	9								
		2	Sometimes	1	14	494	39	755	41	79	41								
		3	Often	3	43	481	38	677	37	76	39								
		4	Very often	3	43	165	13	249	14	22	11								
			Total	7	100	1,253	100	1,830	100	195	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	1	14	200	16	278	15	27	14								
		2	Sometimes	2	29	562	45	775	42	87	45								
		3	Often	2	29	361	29	570	31	58	30								
		4	Very often	2	29	128	10	206	11	22	11								
			Total	7	100	1,251	100	1,829	100	194	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	1	14	217	17	295	16	29	15								
		2	Sometimes	2	29	532	43	754	41	98	51								
		3	Often	4	57	338	27	573	31	38	20								
		4	Very often	0	0	159	13	209	11	28	15								
			Total	7	100	1,246	100	1,831	100	193	100								

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Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
				<i>Your first-year students compared with</i>															
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	Values ^m	Response options																
		1	Never	0	0	68	5	116	6	10	5								
		2	Sometimes	0	0	397	32	548	30	69	36								
		3	Often	5	71	557	45	828	45	78	41								
		4	Very often	2	29	224	18	334	18	35	18								
			Total	7	100	1,246	100	1,826	100	192	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	Values ^m	Response options																
		1	Never	0	0	45	4	57	3	12	6								
		2	Sometimes	1	14	329	26	511	28	52	27								
		3	Often	4	57	595	48	843	46	91	47								
		4	Very often	2	29	277	22	417	23	39	20								
			Total	7	100	1,246	100	1,828	100	194	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	Values ^m	Response options																
		1	Never	0	0	51	4	57	3	9	5								
		2	Sometimes	3	43	411	33	567	31	76	39								
		3	Often	3	43	540	43	840	46	73	38								
		4	Very often	1	14	242	19	363	20	36	19								
			Total	7	100	1,244	100	1,827	100	194	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	Values ^m	Response options																
		1	Never	0	0	16	1	23	1	1	1								
		2	Sometimes	2	29	303	24	399	22	48	25								
		3	Often	2	29	646	52	898	49	96	50								
		4	Very often	3	43	282	23	500	27	47	24								
			Total	7	100	1,247	100	1,820	100	192	100								
3. During the current school year, about how often have you done the following?																			
a. Talked about career plans with a faculty member	SFcareer	Values ^m	Response options																
		1	Never	2	29	307	25	435	24	42	22								
		2	Sometimes	2	29	533	43	803	44	86	45								
		3	Often	1	14	278	22	366	20	39	20								
		4	Very often	2	29	128	10	222	12	25	13								
			Total	7	100	1,246	100	1,826	100	192	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	Values ^m	Response options																
		1	Never	2	29	595	48	892	49	83	43								
		2	Sometimes	3	43	417	33	543	30	66	34								
		3	Often	2	29	162	13	260	14	25	13								
		4	Very often	0	0	75	6	126	7	18	9								
			Total	7	100	1,249	100	1,821	100	192	100								

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First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
				<i>Your first-year students compared with</i>															
<i>Item wording or description</i>	<i>Variable name^j</i>	<i>Values^m</i>	<i>Response options</i>																
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	3	43	439	35	576	32	65	34								
		2	Sometimes	1	14	508	41	755	41	71	37								
		3	Often	1	14	222	18	371	20	39	20								
		4	Very often	2	29	77	6	120	7	17	9								
		Total		7	100	1,246	100	1,822	100	192	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	1	14	362	29	489	27	50	26								
		2	Sometimes	4	57	581	47	806	44	97	50								
		3	Often	1	14	225	18	376	21	34	18								
		4	Very often	1	14	78	6	149	8	12	6								
		Total		7	100	1,246	100	1,820	100	193	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	1	14	50	4	63	3	6	3								
		2	Some	0	0	345	28	506	28	51	27								
		3	Quite a bit	2	29	584	47	888	49	99	52								
		4	Very much	4	57	271	22	371	20	36	19								
		Total		7	100	1,250	100	1,828	100	192	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	0	0	29	2	41	2	7	4								
		2	Some	1	14	279	22	402	22	40	21								
		3	Quite a bit	1	14	583	47	893	49	97	51								
		4	Very much	5	71	352	28	493	27	47	25								
		Total		7	100	1,243	100	1,829	100	191	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	1	14	53	4	47	3	8	4								
		2	Some	1	14	306	24	468	26	48	25								
		3	Quite a bit	0	0	553	44	854	47	97	50								
		4	Very much	5	71	338	27	454	25	40	21								
		Total		7	100	1,250	100	1,823	100	193	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	1	14	69	6	100	5	9	5								
		2	Some	1	14	386	31	554	30	63	33								
		3	Quite a bit	1	14	531	43	789	43	83	43								
		4	Very much	4	57	258	21	380	21	37	19								
		Total		7	100	1,244	100	1,823	100	192	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Mean		Mean		Effect size ⁿ	
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	0	0	64	5	86	5	9	5								
		2	Some	1	14	345	28	496	27	59	31								
		3	Quite a bit	2	29	567	45	857	47	89	46								
		4	Very much	4	57	272	22	387	21	36	19								
		Total		7	100	1,248	100	1,826	100	193	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	0	0	36	3	43	2	7	4								
		2	Some	1	14	298	24	407	22	42	22								
		3	Quite a bit	2	29	586	47	828	45	92	48								
		4	Very much	4	57	330	26	546	30	52	27								
		Total		7	100	1,250	100	1,824	100	193	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	0	0	57	5	58	3	9	5								
		2	Some	0	0	329	26	415	23	54	28								
		3	Quite a bit	2	29	545	44	822	45	82	42								
		4	Very much	5	71	319	26	523	29	48	25								
		Total		7	100	1,250	100	1,818	100	193	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	0	0	44	4	62	3	6	3								
		2	Some	0	0	310	25	402	22	54	28								
		3	Quite a bit	2	29	536	43	787	43	80	41								
		4	Very much	5	71	358	29	569	31	53	27								
		Total		7	100	1,248	100	1,820	100	193	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	0	0	114	9	154	8	13	7								
		2	Some	2	29	424	34	558	31	61	32								
		3	Quite a bit	2	29	445	36	713	39	76	40								
		4	Very much	3	43	266	21	399	22	42	22								
		Total		7	100	1,249	100	1,824	100	192	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	0	0	112	9	133	7	15	8								
		2	Some	2	29	457	37	546	30	60	31								
		3	Quite a bit	2	29	461	37	759	41	86	45								
		4	Very much	3	43	221	18	391	21	32	17								
		Total		7	100	1,251	100	1,829	100	193	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Mean		Mean		Mean	
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
6. During the current school year, about how often have you done the following?																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	0	0	64	5	104	6	10	5								
		2	Sometimes	1	14	372	30	501	28	57	30								
		3	Often	3	43	549	44	835	46	84	44								
		4	Very often	3	43	262	21	380	21	41	21								
			Total	7	100	1,247	100	1,820	100	192	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	1	14	228	18	341	19	39	20								
		2	Sometimes	2	29	482	39	697	38	75	39								
		3	Often	3	43	369	30	567	31	55	28								
		4	Very often	1	14	163	13	214	12	24	12								
			Total	7	100	1,242	100	1,819	100	193	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	1	14	178	14	271	15	25	13								
		2	Sometimes	4	57	500	40	753	41	86	45								
		3	Often	1	14	419	34	602	33	56	29								
		4	Very often	1	14	145	12	196	11	25	13								
			Total	7	100	1,242	100	1,822	100	192	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.)																			
a. Up to 5 pages	wrshortnum	0	None	0	0	115	9	133	7	20	10								
	(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	2	29	270	22	400	22	49	25								
		4	3-5	3	43	430	34	594	33	63	33								
		8	6-10	2	29	239	19	405	22	35	18								
		13	11-15	0	0	121	10	159	9	17	9								
		18	16-20	0	0	34	3	53	3	3	2								
		23	More than 20	0	0	39	3	76	4	6	3								
			Total	7	100	1,248	100	1,820	100	193	100								
b. Between 6 and 10 pages	wrmednum	0	None	2	29	552	44	719	40	104	54								
	(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	3	43	368	30	629	35	51	27								
		4	3-5	2	29	193	16	298	16	23	12								
		8	6-10	0	0	87	7	127	7	10	5								
		13	11-15	0	0	33	3	25	1	2	1								
		18	16-20	0	0	5	0	8	0	0	0								

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Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k									
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with									
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
		23	More than 20	0	0	7	1	13	1	2	1										
			Total	7	100	1,245	100	1,819	100	192	100										

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				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
c. 11 pages or more	wrlongnum	0	None	5	71	958	77	1,379	76	156	81	Your first-year students compared with							
	<i>(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)</i>	1.5	1-2	1	14	146	12	293	16	18	9								
		4	3-5	1	14	62	5	70	4	10	5								
		8	6-10	0	0	33	3	34	2	3	2								
		13	11-15	0	0	33	3	24	1	3	2								
		18	16-20	0	0	7	1	5	0	0	0								
		23	More than 20	0	0	6	0	15	1	2	1								
	Total			7	100	1,245	100	1,820	100	192	100								
Estimated number of assigned pages of student writing.	wrpages																		
	<i>(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)</i>																		

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	65	5	107	6	11	6						
		2	Sometimes	1	14	293	23	471	26	55	29						
		3	Often	2	29	393	32	612	34	64	33						
		4	Very often	4	57	496	40	629	35	62	32						
	Total			7	100	1,247	100	1,819	100	192	100						
b. People from an economic background other than your own	DDeconomic	1	Never	0	0	62	5	100	5	11	6						
		2	Sometimes	1	14	274	22	410	23	44	23						
		3	Often	3	43	442	35	684	38	77	40						
		4	Very often	3	43	469	38	625	34	61	32						
	Total			7	100	1,247	100	1,819	100	193	100						
c. People with religious beliefs other than your own	DDreligion	1	Never	0	0	87	7	126	7	15	8						
		2	Sometimes	1	14	333	27	479	26	57	30						
		3	Often	4	57	382	31	638	35	64	33						
		4	Very often	2	29	445	36	579	32	57	30						
	Total			7	100	1,247	100	1,822	100	193	100						
d. People with political views other than your own	DDpolitical	1	Never	0	0	87	7	145	8	13	7						
		2	Sometimes	2	29	349	28	449	25	55	29						
		3	Often	2	29	387	31	662	36	70	36						

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

		Frequency Distributions								Statistical Comparisons ^k								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
					%		%		%		%							
	4	Very often	3	43	422	34	568	31	54	28								
		Total	7	100	1,245	100	1,824	100	192	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

Item wording or description				Frequency Distributions				Statistical Comparisons ^k											
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with							
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers				
Variable name ^l				Values ^m				Response options				Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
9. During the current school year, about how often have you done the following?																			
a. Identified key information from reading assignments				LSreading	1	Never	0	0	36	3	42	2	3	2					
					2	Sometimes	1	14	341	27	525	29	67	35					
					3	Often	3	43	616	49	878	48	90	47					
					4	Very often	3	43	253	20	372	20	32	17					
					Total		7	100	1,246	100	1,817	100	192	100					
b. Reviewed your notes after class				LSnotes	1	Never	0	0	67	5	97	5	7	4					
					2	Sometimes	2	29	375	30	552	30	58	30					
					3	Often	1	14	473	38	719	40	68	35					
					4	Very often	4	57	328	26	452	25	59	31					
					Total		7	100	1,243	100	1,820	100	192	100					
c. Summarized what you learned in class or from course materials				LSsummary	1	Never	1	14	89	7	128	7	7	4					
					2	Sometimes	2	29	422	34	625	34	75	39					
					3	Often	1	14	484	39	691	38	75	39					
					4	Very often	3	43	250	20	377	21	35	18					
					Total		7	100	1,245	100	1,821	100	192	100					
10. During the current school year, to what extent have your courses challenged you to do your best work?																			
				challenge	1	Not at all	0	0	16	1	17	1	2	1					
					2		0	0	19	2	24	1	4	2					
					3		0	0	79	6	76	4	5	3					
					4		0	0	143	12	221	12	26	14					
					5		1	14	404	33	614	34	68	35					
					6		5	71	301	24	461	25	49	26					
					7	Very much	1	14	277	22	407	22	38	20					
					Total		7	100	1,239	100	1,820	100	192	100					
11. Which of the following have you done or do you plan to do before you graduate?^o																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement				intern	Have not decided	1	14	139	11	226	12	21	11						
				(Means indicate the percentage who responded "Done or in progress)	Do not plan to do	0	0	53	4	125	7	7	4						
					Plan to do	5	71	967	78	1,357	74	150	78						
					Done or in progress	1	14	83	7	114	6	15	8						

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

<i>Item wording or description</i>	<i>Variable name^l progress.")</i>	<i>Values^m</i>	<i>Response options</i>	Frequency Distributions								Statistical Comparisons ^k								
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		<i>Your first-year students compared with</i>								
				<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>Count</i>	<i>%</i>	<i>ASU</i>	<i>Southwest Public</i>	<i>Carnegie Class</i>	<i>SACSCOC Peers</i>	<i>Mean</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>
			Total	7	100	1,242	100	1,822	100	193	100									

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k								
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
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	1	14	314	25	504	28	45	23									
			Do not plan to do	2	29	259	21	506	28	44	23									
			Plan to do	3	43	551	44	653	36	82	42									
			Done or in progress	1	14	119	10	162	9	22	11									
			Total	7	100	1,243	100	1,825	100	193	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	2	29	379	31	588	32	58	30									
			Do not plan to do	2	29	265	21	506	28	40	21									
			Plan to do	3	43	439	35	534	29	60	31									
			Done or in progress	0	0	159	13	190	10	34	18									
			Total	7	100	1,242	100	1,818	100	192	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	29	330	27	540	30	53	28									
			Do not plan to do	3	43	365	29	651	36	67	35									
			Plan to do	2	29	499	40	590	32	65	34									
			Done or in progress	0	0	45	4	43	2	7	4									
			Total	7	100	1,239	100	1,824	100	192	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	0	0	432	35	683	37	78	40									
			Do not plan to do	4	57	178	14	346	19	32	17									
			Plan to do	3	43	563	45	712	39	65	34									
			Done or in progress	0	0	65	5	83	5	18	9									
			Total	7	100	1,238	100	1,824	100	193	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	0	0	330	27	465	26	58	30									
			Do not plan to do	1	14	97	8	202	11	15	8									
			Plan to do	6	86	794	64	1,123	62	115	60									
			Done or in progress	0	0	20	2	30	2	5	3									
			Total	7	100	1,241	100	1,820	100	193	100									
12. About how many of your courses at this institution have included a community-based project (service-learning)?																				
servcourse			None	1	14	616	50	824	45	87	45									
			Some	2	71	496	40	797	44	88	46									
			Most	3	14	92	7	152	8	16	8									

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k									
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your first-year students compared with									
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
		4	All	0	0	35	3	42	2	2	1										
			Total	7	100	1,239	100	1,815	100	193	100										

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options	<i>Your first-year students compared with</i>															
13. Indicate the quality of your interactions with the following people at your institution.																			
a. Students	Q1student	1	Poor	0	0	23	2	25	1	3	2								
		2		0	0	23	2	38	2	2	1								
		3		0	0	61	5	76	4	8	4								
		4		0	0	159	13	235	13	24	13								
		5		1	14	355	29	470	26	42	22								
		6		4	57	290	23	461	25	59	31								
		7	Excellent	2	29	326	26	492	27	54	28								
		—	Not applicable	0	0	6	0	27	1	0	0								
			Total	7	100	1,243	100	1,824	100	192	100								
b. Academic advisors	Q1advisor	1	Poor	0	0	47	4	44	2	7	4								
		2		0	0	48	4	83	5	6	3								
		3		0	0	95	8	124	7	11	6								
		4		0	0	181	15	241	13	25	13								
		5		2	29	223	18	357	20	41	21								
		6		1	14	249	20	395	22	38	20								
		7	Excellent	4	57	375	30	504	28	60	31								
		—	Not applicable	0	0	23	2	71	4	4	2								
			Total	7	100	1,241	100	1,819	100	192	100								
c. Faculty	Q1faculty	1	Poor	0	0	21	2	34	2	4	2								
		2		0	0	38	3	49	3	4	2								
		3		0	0	80	6	103	6	9	5								
		4		0	0	197	16	258	14	23	12								
		5		0	0	328	26	452	25	58	30								
		6		3	43	296	24	477	26	38	20								
		7	Excellent	4	57	267	21	409	22	54	28								
		—	Not applicable	0	0	16	1	42	2	2	1								
			Total	7	100	1,243	100	1,824	100	192	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Mean		Mean		Mean	
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	0	0	37	3	57	3	5	3								
		2		0	0	53	4	61	3	4	2								
		3		1	14	73	6	106	6	12	6								
		4		0	0	174	14	228	13	20	10								
		5		1	14	266	21	328	18	41	21								
		6		1	14	252	20	390	21	42	22								
		7	Excellent	3	43	270	22	390	21	52	27								
		—	Not applicable	1	14	115	9	262	14	15	8								
	Total	7	100	1,240	100	1,822	100	191	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	0	0	36	3	47	3	7	4								
		2		0	0	49	4	61	3	9	5								
		3		1	14	84	7	126	7	13	7								
		4		0	0	191	15	243	13	23	12								
		5		1	14	276	22	387	21	52	27								
		6		3	43	260	21	427	23	32	17								
		7	Excellent	2	29	261	21	403	22	50	26								
		—	Not applicable	0	0	86	7	126	7	6	3								
	Total	7	100	1,243	100	1,820	100	192	100										
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	0	0	20	2	36	2	4	2								
		2	Some	1	14	206	17	330	18	32	17								
		3	Quite a bit	3	43	630	51	895	49	118	62								
		4	Very much	3	43	383	31	557	31	37	19								
			Total	7	100	1,239	100	1,818	100	191	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	0	0	34	3	58	3	6	3								
		2	Some	1	14	262	21	342	19	45	24								
		3	Quite a bit	3	43	516	42	822	45	81	42								
		4	Very much	3	43	427	34	600	33	59	31								
			Total	7	100	1,239	100	1,822	100	191	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	0	0	47	4	72	4	10	5								
		2	Some	2	29	202	16	310	17	31	16								
		3	Quite a bit	1	14	457	37	743	41	77	40								
		4	Very much	4	57	527	43	690	38	73	38								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

		Frequency Distributions								Statistical Comparisons ^k								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
			Total	7	100	1,233	100	1,815	100	191	100							

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	2	29	130	10	192	11	14	7								
		2	Some	3	43	326	26	501	28	67	35								
		3	Quite a bit	0	0	441	36	685	38	71	37								
		4	Very much	2	29	342	28	437	24	40	21								
		Total		7	100	1,239	100	1,815	100	192	100								
e. Providing opportunities to be involved socially	SEsocial	1	Very little	1	14	60	5	107	6	6	3								
		2	Some	3	43	297	24	428	24	46	24								
		3	Quite a bit	0	0	513	42	786	43	91	48								
		4	Very much	3	43	365	30	494	27	48	25								
		Total		7	100	1,235	100	1,815	100	191	100								
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	1	14	80	6	124	7	16	8								
		2	Some	3	43	313	25	447	25	53	28								
		3	Quite a bit	1	14	492	40	746	41	68	36								
		4	Very much	2	29	353	29	499	27	53	28								
		Total		7	100	1,238	100	1,816	100	190	100								
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	0	0	260	21	367	20	38	20								
		2	Some	4	57	458	37	637	35	71	38								
		3	Quite a bit	2	29	353	29	568	31	57	30								
		4	Very much	1	14	167	13	245	13	23	12								
		Total		7	100	1,238	100	1,817	100	189	100								
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	0	0	118	9	219	12	13	7								
		2	Some	3	43	344	28	497	27	57	30								
		3	Quite a bit	1	14	478	38	708	39	80	42								
		4	Very much	3	43	303	24	394	22	42	22								
		Total		7	100	1,243	100	1,818	100	192	100								
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	0	0	209	17	321	18	27	14								
		2	Some	3	43	469	38	646	36	85	44								
		3	Quite a bit	3	43	370	30	578	32	53	28								
		4	Very much	1	14	196	16	271	15	27	14								
		Total		7	100	1,244	100	1,816	100	192	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
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	4	0	10	1	0	0								
	<i>(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	0	0	125	10	232	13	19	10								
		8	6-10 hrs	2	29	262	21	383	21	49	26								
		13	11-15 hrs	0	0	283	23	433	24	49	26								
		18	16-20 hrs	2	29	251	20	354	19	42	22								
		23	21-25 hrs	1	14	148	12	193	11	11	6								
		28	26-30 hrs	0	0	86	7	106	6	9	5								
		33	More than 30 hrs	2	29	83	7	109	6	13	7								
			Total	7	100	1,242	100	1,820	100	192	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	2	29	417	34	679	37	56	29								
	<i>(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	1	14	412	33	574	32	64	33								
		8	6-10 hrs	2	29	188	15	269	15	34	18								
		13	11-15 hrs	1	14	115	9	148	8	21	11								
		18	16-20 hrs	0	0	64	5	89	5	11	6								
		23	21-25 hrs	0	0	23	2	23	1	3	2								
		28	26-30 hrs	0	0	10	1	17	1	1	1								
		33	More than 30 hrs	1	14	8	1	19	1	2	1								
			Total	7	100	1,237	100	1,818	100	192	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	5	71	1,041	84	1,521	84	165	86								
	<i>(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	1	14	19	2	58	3	4	2								
		8	6-10 hrs	0	0	38	3	73	4	9	5								
		13	11-15 hrs	1	14	51	4	80	4	1	1								
		18	16-20 hrs	0	0	64	5	68	4	10	5								
		23	21-25 hrs	0	0	20	2	13	1	3	2								
		28	26-30 hrs	0	0	3	0	3	0	0	0								
		33	More than 30 hrs	0	0	3	0	3	0	0	0								
			Total	7	100	1,239	100	1,819	100	192	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Mean		Mean		Mean	
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options																
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	4	57	854	69	1,205	66	133	70								
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	0	0	39	3	78	4	6	3								
		8	6-10 hrs	1	14	74	6	87	5	11	6								
		13	11-15 hrs	1	14	71	6	89	5	12	6								
		18	16-20 hrs	0	0	72	6	117	6	10	5								
		23	21-25 hrs	0	0	51	4	71	4	5	3								
		28	26-30 hrs	0	0	36	3	53	3	7	4								
		33	More than 30 hrs	1	14	43	3	117	6	7	4								
			Total	7	100	1,240	100	1,817	100	191	100								
Estimated number of hours working for pay	tmworkhrs																		
	(Continuous variable created by NSSE)																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	4	57	764	62	1,123	62	104	54								
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	2	29	317	26	474	26	60	31								
		8	6-10 hrs	0	0	80	6	106	6	20	10								
		13	11-15 hrs	0	0	35	3	47	3	3	2								
		18	16-20 hrs	1	14	22	2	28	2	2	1								
		23	21-25 hrs	0	0	15	1	16	1	1	1								
		28	26-30 hrs	0	0	2	0	8	0	1	1								
		33	More than 30 hrs	0	0	5	0	13	1	1	1								
			Total	7	100	1,240	100	1,815	100	192	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	36	3	49	3	4	2								
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	3	43	257	21	388	21	29	15								
		8	6-10 hrs	2	29	323	26	475	26	57	30								
		13	11-15 hrs	0	0	262	21	362	20	48	25								
		18	16-20 hrs	2	29	171	14	249	14	28	15								
		23	21-25 hrs	0	0	84	7	108	6	11	6								
		28	26-30 hrs	0	0	35	3	56	3	3	2								
		33	More than 30 hrs	0	0	73	6	131	7	11	6								
			Total	7	100	1,241	100	1,818	100	191	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	6	86	933	75	1,307	72	149	78								
	<i>(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	0	0	131	11	219	12	21	11								
		8	6-10 hrs	0	0	67	5	111	6	12	6								
		13	11-15 hrs	1	14	42	3	66	4	2	1								
		18	16-20 hrs	0	0	33	3	42	2	4	2								
		23	21-25 hrs	0	0	19	2	13	1	1	1								
		28	26-30 hrs	0	0	2	0	10	1	0	0								
		33	More than 30 hrs	0	0	15	1	43	2	3	2								
	Total			7	100	1,242	100	1,811	100	192	100								
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	2	29	365	29	597	33	70	37								
	<i>(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	3	43	483	39	664	37	74	39								
		8	6-10 hrs	0	0	216	17	321	18	27	14								
		13	11-15 hrs	1	14	79	6	107	6	7	4								
		18	16-20 hrs	1	14	36	3	49	3	5	3								
		23	21-25 hrs	0	0	28	2	23	1	3	2								
		28	26-30 hrs	0	0	14	1	10	1	0	0								
		33	More than 30 hrs	0	0	18	1	44	2	5	3								
	Total			7	100	1,239	100	1,815	100	191	100								
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
	reading	1	Very little	0	0	259	21	324	18	41	21								
		2	Some	3	43	521	42	719	40	78	41								
		3	About half	2	29	286	23	496	27	48	25								
		4	Most	2	29	133	11	237	13	20	10								
		5	Almost all	0	0	38	3	43	2	5	3								
			Total	7	100	1,237	100	1,819	100	192	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>															

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

Item wording or description	Variable name ^j	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
	tmreadinghrscol	1	0 hrs	0	0	3	0	9	0	0	0								
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	2	29	736	60	1,064	59	121	63								
		3	More than 5, up to 10 hrs	4	57	334	27	511	28	55	29								
		4	More than 10, up to 15 hrs	0	0	93	8	126	7	7	4								
		5	More than 15, up to 20 hrs	0	0	36	3	63	3	6	3								
		6	More than 20, up to 25 hrs	1	14	23	2	34	2	1	1								
		7	More than 25 hrs	0	0	10	1	7	0	2	1								
		Total		7	100	1,235	100	1,814	100	192	100								

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

a. Writing clearly and effectively	pgwrite	1	Very little	0	0	137	11	131	7	16	8							
		2	Some	3	43	363	29	506	28	52	27							
		3	Quite a bit	2	29	504	41	818	45	94	49							
		4	Very much	2	29	238	19	355	20	30	16							
		Total		7	100	1,242	100	1,810	100	192	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	2	29	181	15	199	11	12	6							
		2	Some	3	43	416	33	549	30	68	36							
		3	Quite a bit	0	0	435	35	720	40	82	43							
		4	Very much	2	29	211	17	351	19	29	15							
		Total		7	100	1,243	100	1,819	100	191	100							
c. Thinking critically and analytically	pgthink	1	Very little	0	0	48	4	61	3	4	2							
		2	Some	1	14	227	18	320	18	25	13							
		3	Quite a bit	3	43	550	44	832	46	100	52							
		4	Very much	3	43	418	34	603	33	62	32							
		Total		7	100	1,243	100	1,816	100	191	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	0	0	74	6	99	5	11	6							
		2	Some	1	14	257	21	401	22	34	18							
		3	Quite a bit	3	43	499	40	756	41	84	44							
		4	Very much	3	43	407	33	566	31	62	32							

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

		Frequency Distributions								Statistical Comparisons ^k								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
			Total	7	100	1,237	100	1,822	100	191	100							

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your first-year students compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	1	14	185	15	248	14	32	17								
		2	Some	1	14	415	33	587	32	60	31								
		3	Quite a bit	3	43	406	33	633	35	67	35								
		4	Very much	2	29	236	19	345	19	33	17								
		Total		7	100	1,242	100	1,813	100	192	100								
f. Working effectively with others	pgothers	1	Very little	0	0	91	7	122	7	11	6								
		2	Some	1	14	325	26	456	25	50	26								
		3	Quite a bit	1	14	527	43	766	42	85	45								
		4	Very much	5	71	293	24	471	26	44	23								
		Total		7	100	1,236	100	1,815	100	190	100								
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	1	14	169	14	236	13	18	10								
		2	Some	1	14	360	29	521	29	58	31								
		3	Quite a bit	2	29	439	35	672	37	77	41								
		4	Very much	3	43	271	22	391	21	36	19								
		Total		7	100	1,239	100	1,820	100	189	100								
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	0	0	147	12	211	12	13	7								
		2	Some	3	43	366	30	524	29	68	36								
		3	Quite a bit	3	43	438	35	657	36	70	37								
		4	Very much	1	14	289	23	423	23	40	21								
		Total		7	100	1,240	100	1,815	100	191	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	0	0	142	11	207	11	21	11								
		2	Some	2	29	360	29	531	29	56	29								
		3	Quite a bit	2	29	476	38	682	37	76	40								
		4	Very much	3	43	260	21	399	22	38	20								
		Total		7	100	1,238	100	1,819	100	191	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	0	0	193	16	269	15	25	13								
		2	Some	2	29	400	32	612	34	69	36								
		3	Quite a bit	3	43	414	33	601	33	64	34								
		4	Very much	2	29	237	19	339	19	32	17								
		Total		7	100	1,244	100	1,821	100	190	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Mean		Mean			
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	0	0	24	2	39	2	1	1								
		2	Fair	0	0	206	17	247	14	25	13								
		3	Good	2	29	616	50	922	51	100	52								
		4	Excellent	5	71	393	32	612	34	66	34								
		Total		7	100	1,239	100	1,820	100	192	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	0	0	48	4	59	3	3	2								
		2	Probably no	0	0	164	13	211	12	21	11								
		3	Probably yes	2	29	599	48	809	44	79	41								
		4	Definitely yes	5	71	438	35	742	41	90	47								
		Total		7	100	1,249	100	1,821	100	193	100								
20. Do you intend to return to this institution next year?^f																			
	returnexp		No	0	0	55	4	74	4	6	3								
			Yes	7	100	1,082	87	1,580	87	162	84								
			Not sure	0	0	112	9	168	9	25	13								
			Total	7	100	1,249	100	1,822	100	193	100								

(Means indicate the percentage who responded "Yes.")

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
1. During the current school year, about how often have you done the following?																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	0	0	112	5	88	4	5	1								
		2	Sometimes	3	20	855	37	590	30	103	30								
		3	Often	8	53	744	32	695	35	129	37								
		4	Very often	4	27	586	26	600	30	108	31								
		Total		15	100	2,297	100	1,973	100	345	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	1	7	527	23	450	23	63	18								
		2	Sometimes	9	60	846	37	738	38	123	36								
		3	Often	4	27	605	26	495	25	102	30								
		4	Very often	1	7	316	14	279	14	57	17								
		Total		15	100	2,294	100	1,962	100	345	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	13	149	6	127	6	15	4								
		2	Often	0	0	401	17	307	16	40	12								
		3	Sometimes	10	67	1,227	53	1,037	53	190	55								
		4	Never	3	20	524	23	501	25	102	29								
		Total		15	100	2,301	100	1,972	100	347	100								
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendant	1	Never	13	87	1,204	52	1,029	52	183	53								
		2	Sometimes	1	7	775	34	692	35	114	33								
		3	Often	1	7	219	10	169	9	33	10								
		4	Very often	0	0	98	4	77	4	16	5								
		Total		15	100	2,296	100	1,967	100	346	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	0	0	142	6	154	8	20	6								
		2	Sometimes	6	40	751	33	643	33	113	33								
		3	Often	6	40	763	33	690	35	112	32								
		4	Very often	3	20	649	28	479	24	101	29								
		Total		15	100	2,305	100	1,966	100	346	100								
f. Explained course material to one or more students	CLexplain	1	Never	0	0	66	3	86	4	8	2								
		2	Sometimes	4	27	578	25	491	25	75	22								
		3	Often	6	40	934	41	790	40	147	42								
		4	Very often	5	33	727	32	603	31	117	34								
		Total		15	100	2,305	100	1,970	100	347	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

		Frequency Distributions										Statistical Comparisons ^k					
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
		Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
Item wording or description	Variable name ^j	Values ^m	Response options	<i>Your seniors compared with</i>													
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	0	0	212	9	208	11	19	5						
		2	Sometimes	6	40	592	26	525	27	80	23						
		3	Often	4	27	708	31	608	31	108	31						
		4	Very often	5	33	787	34	631	32	139	40						
		Total		15	100	2,299	100	1,972	100	346	100						
h. Worked with other students on course projects or assignments	CLproject	1	Never	0	0	74	3	97	5	9	3						
		2	Sometimes	1	7	384	17	331	17	44	13						
		3	Often	4	27	794	35	664	34	117	34						
		4	Very often	10	67	1,048	46	879	45	176	51						
		Total		15	100	2,300	100	1,971	100	346	100						
i. Given a course presentation	present	1	Never	1	7	272	12	214	11	32	9						
		2	Sometimes	6	40	769	34	648	33	105	30						
		3	Often	4	27	697	30	595	30	124	36						
		4	Very often	4	27	557	24	509	26	85	25						
		Total		15	100	2,295	100	1,966	100	346	100						
2. During the current school year, about how often have you done the following?																	
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	0	0	82	4	61	3	9	3						
		2	Sometimes	2	13	562	24	504	26	81	23						
		3	Often	9	60	984	43	821	42	151	44						
		4	Very often	4	27	671	29	577	29	106	31						
		Total		15	100	2,299	100	1,963	100	347	100						
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	3	20	404	18	326	17	46	13						
		2	Sometimes	9	60	953	42	832	42	136	40						
		3	Often	3	20	646	28	545	28	106	31						
		4	Very often	0	0	288	13	264	13	54	16						
		Total		15	100	2,291	100	1,967	100	342	100						
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	3	20	825	36	679	35	105	31						
		2	Sometimes	6	40	925	40	807	41	155	45						
		3	Often	6	40	365	16	316	16	58	17						
		4	Very often	0	0	177	8	164	8	26	8						
		Total		15	100	2,292	100	1,966	100	344	100						

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	1	7	240	10	219	11	30	9								
		2	Sometimes	8	53	750	33	701	36	116	34								
		3	Often	6	40	933	41	729	37	143	41								
		4	Very often	0	0	373	16	320	16	56	16								
			Total	15	100	2,296	100	1,969	100	345	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	1	7	171	7	152	8	23	7								
		2	Sometimes	7	47	646	28	597	30	88	26								
		3	Often	5	33	991	43	778	40	152	44								
		4	Very often	2	13	487	21	439	22	81	24								
			Total	15	100	2,295	100	1,966	100	344	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	0	0	79	3	78	4	11	3								
		2	Sometimes	6	40	663	29	607	31	116	34								
		3	Often	8	53	1,026	45	841	43	134	39								
		4	Very often	1	7	522	23	440	22	83	24								
			Total	15	100	2,290	100	1,966	100	344	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	0	0	55	2	34	2	6	2								
		2	Sometimes	5	33	451	20	390	20	64	19								
		3	Often	6	40	1,092	48	935	48	156	45								
		4	Very often	4	27	694	30	602	31	117	34								
			Total	15	100	2,292	100	1,961	100	343	100								
3. During the current school year, about how often have you done the following?																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	1	7	531	23	371	19	48	14								
		2	Sometimes	6	40	919	40	774	39	123	36								
		3	Often	4	27	526	23	463	24	98	29								
		4	Very often	4	27	313	14	354	18	74	22								
			Total	15	100	2,289	100	1,962	100	343	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	6	40	897	39	721	37	94	27								
		2	Sometimes	5	33	729	32	599	30	112	32								
		3	Often	3	20	403	18	362	18	84	24								
		4	Very often	1	7	261	11	283	14	55	16								
			Total	15	100	2,290	100	1,965	100	345	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	1	7	550	24	386	20	59	17								
		2	Sometimes	7	47	959	42	808	41	126	37								
		3	Often	6	40	521	23	509	26	104	30								
		4	Very often	1	7	246	11	258	13	54	16								
			Total	15	100	2,276	100	1,961	100	343	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	2	13	593	26	398	20	56	16								
		2	Sometimes	9	60	984	43	895	46	150	44								
		3	Often	3	20	511	22	451	23	92	27								
		4	Very often	1	7	201	9	212	11	46	13								
			Total	15	100	2,289	100	1,956	100	344	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	0	0	213	9	191	10	31	9								
		2	Some	10	67	722	32	674	34	97	28								
		3	Quite a bit	5	33	935	41	763	39	141	41								
		4	Very much	0	0	420	18	337	17	75	22								
			Total	15	100	2,290	100	1,965	100	344	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	1	7	65	3	60	3	7	2								
		2	Some	1	7	321	14	285	15	50	15								
		3	Quite a bit	6	40	917	40	799	41	127	37								
		4	Very much	7	47	985	43	819	42	160	47								
			Total	15	100	2,288	100	1,963	100	344	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	0	0	89	4	88	4	14	4								
		2	Some	2	13	436	19	400	20	63	18								
		3	Quite a bit	7	47	911	40	773	39	136	40								
		4	Very much	6	40	847	37	700	36	129	38								
			Total	15	100	2,283	100	1,961	100	342	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	3	20	306	13	267	14	37	11								
		2	Some	5	33	720	31	626	32	97	28								
		3	Quite a bit	7	47	796	35	674	34	122	36								
		4	Very much	0	0	465	20	388	20	85	25								
			Total	15	100	2,287	100	1,955	100	341	100								

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

Frequencies and Statistical Comparisons: Engineering Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												<i>Your seniors compared with</i>							
Item wording or description	Variable name ^j	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	0	0	153	7	145	7	23	7								
		2	Some	5	33	598	26	562	29	87	25								
		3	Quite a bit	8	53	967	42	772	39	129	38								
		4	Very much	2	13	573	25	480	25	105	31								
		Total		15	100	2,291	100	1,959	100	344	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	0	0	90	4	81	4	13	4								
		2	Some	4	27	500	22	421	21	78	23								
		3	Quite a bit	6	40	1,031	45	860	44	145	43								
		4	Very much	5	33	665	29	597	30	105	31								
		Total		15	100	2,286	100	1,959	100	341	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	0	0	134	6	115	6	18	5								
		2	Some	3	20	543	24	431	22	79	23								
		3	Quite a bit	9	60	1,018	45	904	46	151	44								
		4	Very much	3	20	588	26	511	26	95	28								
		Total		15	100	2,283	100	1,961	100	343	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	1	7	108	5	88	5	18	5								
		2	Some	2	13	510	22	410	21	61	18								
		3	Quite a bit	5	33	938	41	805	41	146	43								
		4	Very much	7	47	726	32	652	33	118	34								
		Total		15	100	2,282	100	1,955	100	343	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	2	13	375	16	265	14	44	13								
		2	Some	7	47	827	36	637	32	100	29								
		3	Quite a bit	6	40	689	30	678	35	123	36								
		4	Very much	0	0	393	17	382	19	76	22								
		Total		15	100	2,284	100	1,962	100	343	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	4	27	273	12	201	10	34	10								
		2	Some	4	27	795	35	596	30	101	29								
		3	Quite a bit	6	40	801	35	721	37	116	34								
		4	Very much	1	7	419	18	437	22	92	27								
		Total		15	100	2,288	100	1,955	100	343	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k											
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Effect size ⁿ		Effect size ⁿ					
														Mean	Mean	Mean	Mean	Mean	Mean				
6. During the current school year, about how often have you done the following?																							
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	0	0	78	3	66	3	12	4												
		2	Sometimes	2	13	506	22	445	23	74	22												
		3	Often	6	40	941	41	792	41	150	44												
		4	Very often	7	47	757	33	647	33	105	31												
			Total	15	100	2,282	100	1,950	100	341	100												
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	2	13	459	20	378	19	55	16												
		2	Sometimes	5	33	715	31	612	31	94	28												
		3	Often	5	33	623	27	565	29	108	32												
		4	Very often	3	20	477	21	395	20	81	24												
			Total	15	100	2,274	100	1,950	100	338	100												
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	2	14	285	13	220	11	35	10												
		2	Sometimes	5	36	791	35	734	38	118	35												
		3	Often	6	43	780	34	642	33	120	35												
		4	Very often	1	7	420	18	353	18	67	20												
			Total	14	100	2,276	100	1,949	100	340	100												
7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.)																							
a. Up to 5 pages	wrshortnum <i>(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	2	13	267	12	244	13	54	16												
		1.5	1-2	2	13	524	23	422	22	75	22												
		4	3-5	2	13	647	28	506	26	71	21												
		8	6-10	1	7	400	18	364	19	71	21												
		13	11-15	4	27	193	8	153	8	24	7												
		18	16-20	0	0	92	4	92	5	14	4												
		23	More than 20	4	27	153	7	162	8	32	9												
	Total	15	100	2,276	100	1,943	100	341	100														
b. Between 6 and 10 pages	wrmednum <i>(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	5	33	663	29	589	30	110	33												
		1.5	1-2	5	33	656	29	516	27	88	26												
		4	3-5	4	27	441	19	376	19	64	19												
		8	6-10	0	0	270	12	258	13	32	9												
		13	11-15	0	0	112	5	89	5	16	5												
		18	16-20	0	0	52	2	35	2	9	3												

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

		Frequency Distributions								Statistical Comparisons ^k								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
		23	More than 20	1	7	75	3	73	4	19	6							
			Total	15	100	2,269	100	1,936	100	338	100							

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
Item wording or description	Variable name ^l	Values ^m	Response options	<i>Your seniors compared with</i>															
c. 11 pages or more	wrlongnum	0	None	10	67	973	43	850	44	146	43								
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	4	27	616	27	552	28	92	27								
		4	3-5	0	0	306	13	239	12	45	13								
		8	6-10	0	0	180	8	122	6	21	6								
		13	11-15	0	0	98	4	81	4	15	4								
		18	16-20	0	0	40	2	32	2	7	2								
		23	More than 20	1	7	69	3	69	4	14	4								
			Total	15	100	2,282	100	1,945	100	340	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.)																

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	144	6	157	8	20	6							
		2	Sometimes	1	7	406	18	462	24	69	20							
		3	Often	7	47	623	27	552	28	97	29							
		4	Very often	7	47	1,107	49	780	40	154	45							
			Total	15	100	2,280	100	1,951	100	340	100							
b. People from an economic background other than your own	DDeconomic	1	Never	0	0	140	6	132	7	20	6							
		2	Sometimes	2	13	440	19	465	24	64	19							
		3	Often	6	40	709	31	621	32	113	33							
		4	Very often	7	47	987	43	723	37	143	42							
			Total	15	100	2,276	100	1,941	100	340	100							
c. People with religious beliefs other than your own	DDreligion	1	Never	0	0	152	7	155	8	20	6							
		2	Sometimes	2	13	442	19	474	24	81	24							
		3	Often	7	47	685	30	615	32	101	30							
		4	Very often	6	40	997	44	701	36	138	41							
			Total	15	100	2,276	100	1,945	100	340	100							
d. People with political views other than your own	DDpolitical	1	Never	0	0	159	7	160	8	24	7							
		2	Sometimes	1	7	524	23	521	27	84	25							
		3	Often	7	50	737	32	608	31	112	33							

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k					
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your seniors compared with					
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers		
										Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		4	Very often	6	43	864	38	657	34	122	36						
			Total	14	100	2,284	100	1,946	100	342	100						

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k									
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers			
																		<i>Your seniors compared with</i>			
<i>Item wording or description</i>	<i>Variable name^l</i>	<i>Values^m</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>Mean</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	<i>Mean</i>	<i>Effect sizeⁿ</i>	
9. During the current school year, about how often have you done the following?																					
a. Identified key information from reading assignments	LSreading	1	Never	0	0	130	6	134	7	16	5										
		2	Sometimes	4	27	621	27	561	29	85	25										
		3	Often	6	40	993	44	807	42	147	43										
		4	Very often	5	33	532	23	441	23	91	27										
		Total		15	100	2,276	100	1,943	100	339	100										
b. Reviewed your notes after class	LSnotes	1	Never	0	0	139	6	137	7	12	4										
		2	Sometimes	4	27	715	31	638	33	95	28										
		3	Often	10	67	811	36	665	34	120	36										
		4	Very often	1	7	612	27	505	26	111	33										
		Total		15	100	2,277	100	1,945	100	338	100										
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	0	0	191	8	196	10	26	8										
		2	Sometimes	5	33	777	34	647	33	103	30										
		3	Often	7	47	802	35	686	35	121	36										
		4	Very often	3	20	512	22	418	21	89	26										
		Total		15	100	2,282	100	1,947	100	339	100										
10. During the current school year, to what extent have your courses challenged you to do your best work?																					
challenge		1	Not at all	0	0	35	2	27	1	5	1										
		2		0	0	35	2	39	2	3	1										
		3		0	0	106	5	95	5	19	6										
		4		0	0	247	11	206	11	33	10										
		5		7	47	600	26	517	27	76	22										
		6		5	33	548	24	469	24	91	27										
		7	Very much	3	20	697	31	588	30	111	33										
		Total		15	100	2,268	100	1,941	100	338	100										
11. Which of the following have you done or do you plan to do before you graduate?^o																					
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		2	13	158	7	148	8	28	8										
		Do not plan to do		0	0	271	12	243	12	38	11										
		Plan to do		5	33	850	37	570	29	127	37										
		Done or in progress		8	53	1,001	44	985	51	147	43										
		<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: Engineering

Angelo State University

Seniors^a in Engineering

Item wording or description	Variable name ^l progress.")	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k				
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your seniors compared with				
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	
									Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		Total		15	100	2,280	100	1,946	100	340	100					

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k								
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
												Your seniors compared with								
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
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	27	236	10	215	11	40	12									
			Do not plan to do	5	33	843	37	776	40	112	33									
			Plan to do	1	7	309	14	200	10	35	10									
			Done or in progress	5	33	887	39	751	39	152	45									
			Total	15	100	2,275	100	1,942	100	339	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	40	284	12	308	16	49	14									
			Do not plan to do	7	47	1,097	48	914	47	124	36									
			Plan to do	0	0	364	16	250	13	56	16									
			Done or in progress	2	13	529	23	472	24	111	33									
			Total	15	100	2,274	100	1,944	100	340	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	13	253	11	289	15	49	14									
			Do not plan to do	11	73	1,496	66	1,321	68	237	70									
			Plan to do	1	7	234	10	181	9	36	11									
			Done or in progress	1	7	294	13	151	8	18	5									
			Total	15	100	2,277	100	1,942	100	340	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	33	372	16	338	17	62	18									
			Do not plan to do	4	27	780	34	685	35	118	35									
			Plan to do	4	27	489	21	349	18	52	15									
			Done or in progress	2	13	641	28	573	29	107	32									
			Total	15	100	2,282	100	1,945	100	339	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	0	0	134	6	113	6	25	7									
			Do not plan to do	0	0	149	7	131	7	32	9									
			Plan to do	11	73	896	39	666	34	110	33									
			Done or in progress	4	27	1,098	48	1,033	53	170	50									
			Total	15	100	2,277	100	1,943	100	337	100									
12. About how many of your courses at this institution have included a community-based project (service-learning)?																				
servcourse		1	None	6	40	1,239	54	936	48	158	46									
			2	Some	5	33	799	35	813	42	136	40								
			3	Most	4	27	186	8	149	8	37	11								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

		Frequency Distributions								Statistical Comparisons ^k								
		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
		4	All	0	0	55	2	43	2	9	3							
			Total	15	100	2,279	100	1,941	100	340	100							

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Frequencies and Statistical Comparisons: Engineering

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				Frequency Distributions								Statistical Comparisons ^k								
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		
														Mean	Mean	Mean	Mean	Mean	Mean	
13. Indicate the quality of your interactions with the following people at your institution.																				
a. Students	Q1student	1	Poor	0	0	26	1	25	1	2	1									
		2		0	0	28	1	22	1	2	1									
		3		0	0	87	4	76	4	13	4									
		4		0	0	224	10	186	10	30	9									
		5		4	27	548	24	446	23	79	23									
		6		6	40	641	28	537	28	83	24									
		7	Excellent	5	33	699	31	616	32	126	37									
		—	Not applicable	0	0	27	1	38	2	5	1									
			Total	15	100	2,280	100	1,946	100	340	100									
b. Academic advisors	Q1advisor	1	Poor	0	0	154	7	108	6	16	5									
		2		0	0	145	6	106	5	17	5									
		3		2	14	186	8	139	7	28	8									
		4		0	0	296	13	252	13	38	11									
		5		1	7	438	19	371	19	69	20									
		6		3	21	409	18	350	18	71	21									
		7	Excellent	8	57	628	28	585	30	99	29									
		—	Not applicable	0	0	27	1	35	2	3	1									
			Total	14	100	2,283	100	1,946	100	341	100									
c. Faculty	Q1faculty	1	Poor	0	0	62	3	45	2	9	3									
		2		0	0	77	3	72	4	12	4									
		3		0	0	155	7	136	7	18	5									
		4		0	0	371	16	285	15	54	16									
		5		3	20	578	25	454	23	66	19									
		6		6	40	560	25	478	25	85	25									
		7	Excellent	6	40	465	20	463	24	95	28									
		—	Not applicable	0	0	13	1	15	1	2	1									
			Total	15	100	2,281	100	1,948	100	341	100									

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

Item wording or description	Variable name ^j	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k									
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your seniors compared with									
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
d. Student services staff (career services, student activities, housing, etc.)	Qlstaff	1	Poor	0	0	130	6	99	5	19	6										
		2		0	0	106	5	79	4	11	3										
		3		0	0	175	8	139	7	29	9										
		4		2	13	323	14	261	13	58	17										
		5		3	20	454	20	354	18	60	18										
		6		2	13	393	17	354	18	68	20										
		7	Excellent	2	13	361	16	344	18	58	17										
		—	Not applicable	6	40	337	15	313	16	38	11										
Total		15	100	2,279	100	1,943	100	341	100												
e. Other administrative staff and offices (registrar, financial aid, etc.)	Qladmin	1	Poor	1	7	136	6	120	6	23	7										
		2		0	0	121	5	85	4	17	5										
		3		0	0	209	9	163	8	37	11										
		4		0	0	353	16	292	15	64	19										
		5		2	13	488	21	379	19	63	19										
		6		5	33	417	18	400	21	61	18										
		7	Excellent	4	27	402	18	395	20	62	18										
		—	Not applicable	3	20	151	7	114	6	12	4										
Total		15	100	2,277	100	1,948	100	339	100												
14. How much does your institution emphasize the following?																					
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	0	0	47	2	51	3	7	2										
		2	Some	1	7	352	15	347	18	59	17										
		3	Quite a bit	10	67	991	43	887	46	156	46										
		4	Very much	4	27	893	39	659	34	118	35										
		Total		15	100	2,283	100	1,944	100	340	100										
b. Providing support to help students succeed academically	SEacademic	1	Very little	0	0	135	6	133	7	19	6										
		2	Some	2	13	647	28	511	26	92	27										
		3	Quite a bit	11	73	937	41	828	43	137	41										
		4	Very much	2	13	558	25	471	24	90	27										
		Total		15	100	2,277	100	1,943	100	338	100										
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	0	0	255	11	239	12	28	8										
		2	Some	3	20	659	29	519	27	94	28										
		3	Quite a bit	6	40	819	36	749	39	123	36										
		4	Very much	6	40	546	24	433	22	96	28										

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k					
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your seniors compared with					
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers		
										Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		Total		15	100	2,279	100	1,940	100	341	100						

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
Item wording or description	Variable name ^l	Values ^m	Response options	<i>Your seniors compared with</i>															
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	0	0	404	18	382	20	56	16								
		2	Some	5	33	702	31	590	30	88	26								
		3	Quite a bit	7	47	705	31	622	32	125	37								
		4	Very much	3	20	467	21	344	18	71	21								
		Total		15	100	2,278	100	1,938	100	340	100								
e. Providing opportunities to be involved socially	SEsocial	1	Very little	0	0	224	10	219	11	28	8								
		2	Some	4	27	649	28	601	31	87	26								
		3	Quite a bit	6	40	861	38	719	37	141	41								
		4	Very much	5	33	549	24	398	21	84	25								
		Total		15	100	2,283	100	1,937	100	340	100								
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	0	0	325	14	306	16	47	14								
		2	Some	6	40	648	28	581	30	94	28								
		3	Quite a bit	6	40	817	36	673	35	126	37								
		4	Very much	3	20	485	21	378	20	73	21								
		Total		15	100	2,275	100	1,938	100	340	100								
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	7	50	855	38	703	36	117	35								
		2	Some	4	29	733	32	678	35	111	33								
		3	Quite a bit	1	7	448	20	372	19	71	21								
		4	Very much	2	14	242	11	190	10	40	12								
		Total		14	100	2,278	100	1,943	100	339	100								
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	2	13	406	18	410	21	62	18								
		2	Some	6	40	724	32	657	34	116	34								
		3	Quite a bit	4	27	723	32	580	30	106	31								
		4	Very much	3	20	426	19	290	15	57	17								
		Total		15	100	2,279	100	1,937	100	341	100								
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	3	20	654	29	516	27	93	27								
		2	Some	6	40	821	36	771	40	128	38								
		3	Quite a bit	4	27	558	24	454	23	81	24								
		4	Very much	2	13	250	11	199	10	38	11								
		Total		15	100	2,283	100	1,940	100	340	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count		Count		Count		Count		Mean		Mean		Mean		Mean	
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
15. About how many hours do you spend in a typical 7-day week doing the following?																			
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmprephrs	0	0 hrs	0	0	9	0	14	1	0	0								
	(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	7	193	8	202	10	42	12								
		8	6-10 hrs	3	20	387	17	398	20	72	21								
		13	11-15 hrs	6	40	429	19	346	18	61	18								
		18	16-20 hrs	0	0	433	19	328	17	48	14								
		23	21-25 hrs	1	7	302	13	262	13	47	14								
		28	26-30 hrs	2	13	172	8	136	7	26	8								
		33	More than 30 hrs	2	13	356	16	256	13	45	13								
			Total	15	100	2,281	100	1,942	100	341	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	5	33	837	37	780	40	113	33								
	(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	6	40	689	30	564	29	115	34								
		8	6-10 hrs	1	7	337	15	246	13	52	15								
		13	11-15 hrs	2	13	207	9	124	6	16	5								
		18	16-20 hrs	0	0	103	5	103	5	19	6								
		23	21-25 hrs	1	7	62	3	45	2	9	3								
		28	26-30 hrs	0	0	14	1	19	1	4	1								
		33	More than 30 hrs	0	0	24	1	57	3	11	3								
			Total	15	100	2,273	100	1,938	100	339	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	12	80	1,618	71	1,386	71	232	68								
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	0	0	58	3	93	5	13	4								
		8	6-10 hrs	1	7	127	6	163	8	17	5								
		13	11-15 hrs	1	7	152	7	113	6	18	5								
		18	16-20 hrs	1	7	231	10	121	6	45	13								
		23	21-25 hrs	0	0	62	3	35	2	7	2								
		28	26-30 hrs	0	0	15	1	14	1	2	1								
		33	More than 30 hrs	0	0	20	1	16	1	7	2								
			Total	15	100	2,283	100	1,941	100	341	100								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	6	40	1,087	48	832	43	150	44								
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	0	0	98	4	74	4	14	4								
	8	6-10 hrs	0	0	120	5	125	6	17	5									
	13	11-15 hrs	2	13	170	7	129	7	16	5									
	18	16-20 hrs	1	7	217	10	214	11	33	10									
	23	21-25 hrs	2	13	172	8	132	7	27	8									
	28	26-30 hrs	2	13	95	4	95	5	13	4									
	33	More than 30 hrs	2	13	319	14	341	18	71	21									
	Total				15	100	2,278	100	1,942	100	341								
Estimated number of hours working for pay	tmworkhrs																		
	(Continuous variable created by NSSE)																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	9	60	1,301	57	1,206	62	169	50								
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	33	661	29	490	25	115	34								
	8	6-10 hrs	1	7	131	6	114	6	26	8									
	13	11-15 hrs	0	0	73	3	50	3	11	3									
	18	16-20 hrs	0	0	49	2	33	2	7	2									
	23	21-25 hrs	0	0	32	1	18	1	4	1									
	28	26-30 hrs	0	0	9	0	7	0	0	0									
	33	More than 30 hrs	0	0	18	1	22	1	8	2									
	Total				15	100	2,274	100	1,940	100	340								
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	1	7	93	4	87	4	19	6								
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	6	40	656	29	534	27	111	33								
	8	6-10 hrs	2	13	623	27	534	27	92	27									
	13	11-15 hrs	1	7	368	16	377	19	42	12									
	18	16-20 hrs	2	13	269	12	205	11	36	11									
	23	21-25 hrs	1	7	110	5	83	4	23	7									
	28	26-30 hrs	1	7	47	2	33	2	1	0									
	33	More than 30 hrs	1	7	113	5	92	5	17	5									
	Total				15	100	2,279	100	1,945	100	341								

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
												Your seniors compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	12	80	1,462	64	1,249	65	212	63								
	<i>(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	1	7	244	11	216	11	35	10								
		8	6-10 hrs	0	0	152	7	125	6	19	6								
		13	11-15 hrs	0	0	87	4	79	4	12	4								
		18	16-20 hrs	0	0	72	3	72	4	10	3								
		23	21-25 hrs	0	0	58	3	34	2	7	2								
		28	26-30 hrs	0	0	31	1	23	1	4	1								
		33	More than 30 hrs	2	13	164	7	137	7	40	12								
	Total			15	100	2,270	100	1,935	100	339	100								
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	2	13	236	10	284	15	38	11								
	<i>(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	3	1-5 hrs	11	73	1,136	50	953	49	166	49								
		8	6-10 hrs	2	13	484	21	399	20	65	19								
		13	11-15 hrs	0	0	217	10	157	8	30	9								
		18	16-20 hrs	0	0	87	4	63	3	11	3								
		23	21-25 hrs	0	0	44	2	25	1	6	2								
		28	26-30 hrs	0	0	18	1	7	0	4	1								
		33	More than 30 hrs	0	0	54	2	61	3	21	6								
	Total			15	100	2,276	100	1,949	100	341	100								
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
	reading	1	Very little	1	7	699	31	592	31	91	27								
		2	Some	8	53	848	37	721	37	115	34								
		3	About half	4	27	437	19	377	19	82	24								
		4	Most	2	13	232	10	194	10	40	12								
		5	Almost all	0	0	63	3	56	3	13	4								
			Total	15	100	2,279	100	1,940	100	341	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>															

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k							
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
	treadinghrscol	1	0 hrs	0	0	9	0	14	1	0	0								
	(Collapsed version of treadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	9	60	1,357	60	1,165	60	199	58								
		3	More than 5, up to 10 hrs	4	27	539	24	480	25	83	24								
		4	More than 10, up to 15 hrs	2	13	160	7	124	6	25	7								
		5	More than 15, up to 20 hrs	0	0	101	4	80	4	13	4								
		6	More than 20, up to 25 hrs	0	0	85	4	50	3	13	4								
		7	More than 25 hrs	0	0	24	1	19	1	8	2								
		Total		15	100	2,275	100	1,932	100	341	100								

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

a. Writing clearly and effectively	pgwrite	1	Very little	0	0	225	10	195	10	26	8		
		2	Some	2	13	672	30	567	29	99	29		
		3	Quite a bit	10	67	868	38	716	37	129	38		
		4	Very much	3	20	502	22	452	23	83	25		
		Total		15	100	2,267	100	1,930	100	337	100		
b. Speaking clearly and effectively	pgspeak	1	Very little	1	7	239	10	210	11	34	10		
		2	Some	2	13	665	29	574	30	90	27		
		3	Quite a bit	8	53	820	36	664	34	115	34		
		4	Very much	4	27	554	24	494	25	100	29		
		Total		15	100	2,278	100	1,942	100	339	100		
c. Thinking critically and analytically	pgthink	1	Very little	0	0	76	3	73	4	11	3		
		2	Some	2	13	262	12	272	14	36	11		
		3	Quite a bit	4	27	798	35	671	34	125	37		
		4	Very much	9	60	1,142	50	931	48	169	50		
		Total		15	100	2,278	100	1,947	100	341	100		
d. Analyzing numerical and statistical information	pganalyze	1	Very little	0	0	61	3	68	3	14	4		
		2	Some	1	7	264	12	272	14	43	13		
		3	Quite a bit	4	27	726	32	630	32	105	31		
		4	Very much	10	67	1,231	54	973	50	178	52		
		Total		15	100	2,278	100	1,947	100	341	100		

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k					
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		Your seniors compared with					
				Count	%	Count	%	Count	%	Count	%	ASU	Southwest Public	Carnegie Class	SACSCOC Peers		
										Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
		Total		15	100	2,282	100	1,943	100	340	100						

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k					
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Your seniors compared with			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Effect size ⁿ	
														Mean	Effect size ⁿ	Mean	Effect size ⁿ
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	1	7	234	10	176	9	41	12						
		2	Some	2	13	561	25	482	25	70	21						
		3	Quite a bit	7	47	758	33	638	33	111	33						
		4	Very much	5	33	725	32	650	33	119	35						
		Total		15	100	2,278	100	1,946	100	341	100						
f. Working effectively with others	pgothers	1	Very little	0	0	116	5	115	6	11	3						
		2	Some	3	20	476	21	435	22	82	24						
		3	Quite a bit	7	47	871	38	710	37	107	31						
		4	Very much	5	33	813	36	682	35	141	41						
		Total		15	100	2,276	100	1,942	100	341	100						
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	0	0	343	15	300	15	53	16						
		2	Some	3	20	616	27	531	27	73	21						
		3	Quite a bit	6	40	740	32	618	32	122	36						
		4	Very much	6	40	582	26	494	25	93	27						
		Total		15	100	2,281	100	1,943	100	341	100						
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	0	0	359	16	351	18	55	16						
		2	Some	6	40	625	27	586	30	81	24						
		3	Quite a bit	7	47	692	30	557	29	104	30						
		4	Very much	2	13	599	26	444	23	101	30						
		Total		15	100	2,275	100	1,938	100	341	100						
i. Solving complex real-world problems	pgprobsolve	1	Very little	1	7	192	8	197	10	39	11						
		2	Some	2	13	541	24	439	23	79	23						
		3	Quite a bit	4	27	772	34	666	34	105	31						
		4	Very much	8	53	770	34	643	33	119	35						
		Total		15	100	2,275	100	1,945	100	342	100						
j. Being an informed and active citizen	pgcitizen	1	Very little	2	13	494	22	424	22	80	23						
		2	Some	7	47	778	34	645	33	81	24						
		3	Quite a bit	4	27	583	26	512	26	102	30						
		4	Very much	2	13	421	18	366	19	78	23						
		Total		15	100	2,276	100	1,947	100	341	100						

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

Frequencies and Statistical Comparisons: Engineering

Angelo State University

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k								
				ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		
														Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
18. How would you evaluate your entire educational experience at this institution?																				
	evalexp	1	Poor	0	0	98	4	79	4	19	6									
		2	Fair	1	7	388	17	344	18	55	16									
		3	Good	8	53	1,122	49	909	46	160	47									
		4	Excellent	6	40	678	30	626	32	110	32									
		Total		15	100	2,286	100	1,958	100	344	100									
19. If you could start over again, would you go to the same institution you are now attending?																				
	sameinst	1	Definitely no	0	0	130	6	124	6	23	7									
		2	Probably no	0	0	345	15	315	16	54	16									
		3	Probably yes	10	67	993	43	828	42	124	36									
		4	Definitely yes	5	33	823	36	690	35	142	41									
		Total		15	100	2,291	100	1,957	100	343	100									

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a								
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
21a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One	5	71	1,071	86	1,567	86	158	82	13	87	2,044	90	1,676	86	287	83	
		More than one	2	29	178	14	260	14	34	18	2	13	239	10	275	14	57	17	
		Total	7	100	1,249	100	1,827	100	192	100	15	100	2,283	100	1,951	100	344	100	
First major or expected first major, in NSSE's default related-major categories. (This does not reflect any customization made for the Major Field Report.)	MAJfirstcol <i>(Recoded from MAJfirst.)</i>	Arts & Humanities	0	0	3	0	5	0	3	2	0	0	5	0	6	0	3	1	
		Biological Sci., Agriculture, & Natural Resources	0	0	6	0	6	0	2	1	0	0	6	0	8	0	1	0	
		Physical Sci., Mathematics, & Computer Science	1	14	15	1	32	2	1	1	0	0	12	1	21	1	2	1	
		Social Sciences	0	0	1	0	1	0	0	0	0	0	2	0	0	0	0	0	
		Business	0	0	7	1	9	0	2	1	0	0	7	0	15	1	0	0	
		Communications, Media, & Public Relations	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Education	0	0	0	0	3	0	0	0	0	0	1	0	2	0	0	0	
		Engineering	6	86	1,217	97	1,764	96	186	95	15	100	2,271	98	1,907	97	337	97	
		Health Professions	0	0	3	0	3	0	0	0	0	0	1	0	2	0	2	1	
		Social Service Professions	0	0	2	0	3	0	1	1	0	0	1	0	5	0	1	0	
		All Other	0	0	3	0	12	1	0	0	0	0	2	0	9	0	1	0	
		Undecided, Undeclared	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	7	100	1,258	100	1,838	100	195	100	15	100	2,308	100	1,975	100	347	100	
Second major or expected second major, in NSSE's default related-major categories. (This does not reflect any customization made for the Major Field Report.)	MAJsecondcol <i>(Recoded from MAJsecond.)</i>	Arts & Humanities	0	0	20	11	11	4	0	0	0	0	15	6	9	3	0	0	
		Biological Sci., Agriculture, & Natural Resources	0	0	5	3	11	4	3	9	0	0	7	3	6	2	1	2	
		Physical Sci., Mathematics, & Computer Science	1	50	34	19	29	11	10	29	2	100	50	21	44	16	18	32	
		Social Sciences	0	0	3	2	3	1	0	0	0	0	5	2	1	0	0	0	
		Business	0	0	10	6	18	7	3	9	0	0	32	14	18	7	10	18	
		Communications, Media, & Public Relations	0	0	1	1	2	1	0	0	0	0	0	0	1	0	0	0	
		Education	0	0	1	1	1	0	0	0	0	0	3	1	3	1	0	0	
		Engineering	1	50	88	49	156	60	16	47	0	0	101	43	160	58	21	37	
		Health Professions	0	0	3	2	4	2	1	3	0	0	2	1	2	1	1	2	
		Social Service Professions	0	0	0	0	3	1	0	0	0	0	6	3	8	3	2	4	
		All Other	0	0	7	4	9	3	0	0	0	0	5	2	15	5	0	0	
		Undecided, Undeclared	0	0	6	3	12	5	1	3	0	0	10	4	7	3	4	7	
		Total	2	100	178	100	259	100	34	100	2	100	236	100	274	100	57	100	
22. What is your class level?	class	Freshman/First-year	6	86	1,043	85	1,599	88	149	79	0	0	7	0	13	1	1	0	
		Sophomore	1	14	157	13	171	9	34	18	0	0	81	4	34	2	7	2	
		Junior	0	0	19	2	21	1	3	2	2	13	405	18	250	13	53	16	
		Senior	0	0	5	0	4	0	0	0	13	87	1,752	77	1,594	82	277	81	
		Unclassified	0	0	8	1	17	1	3	2	0	0	35	2	55	3	3	1	
		Total	7	100	1,232	100	1,812	100	189	100	15	100	2,280	100	1,946	100	341	100	

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
23. Thinking about this current academic term, are you a full-time student?	fulltime	No	0	0	54	4	95	5	12	6	2	13	492	22	343	18	54	16
		Yes	7	100	1,176	96	1,705	95	178	94	13	87	1,773	78	1,590	82	279	84
		Total	7	100	1,230	100	1,800	100	190	100	15	100	2,265	100	1,933	100	333	100
24a. How many courses are you taking for credit this current academic term?	coursenum	0	0	0	3	0	15	1	1	1	0	0	38	2	44	2	2	1
		1	0	0	9	1	18	1	1	1	0	0	66	3	53	3	5	1
		2	0	0	22	2	35	2	8	4	0	0	135	6	116	6	11	3
		3	0	0	48	4	78	4	5	3	1	7	241	11	211	11	37	11
		4	3	43	379	31	417	23	41	22	5	33	722	32	478	25	112	33
		5	1	14	466	38	658	36	80	42	9	60	633	28	520	27	102	30
		6	1	14	200	16	331	18	36	19	0	0	251	11	267	14	39	11
		7 or more	2	29	108	9	261	14	18	9	0	0	194	9	261	13	34	10
Total	7	100	1,235	100	1,813	100	190	100	15	100	2,280	100	1,950	100	342	100		
b. Of these, how many are entirely online?	onlinenum	0	7	100	950	77	1,442	80	162	86	14	93	1,705	75	1,493	77	242	71
		1	0	0	202	16	228	13	22	12	0	0	357	16	268	14	58	17
		2	0	0	47	4	54	3	1	1	1	7	91	4	66	3	21	6
		3	0	0	16	1	23	1	2	1	0	0	50	2	49	3	10	3
		4	0	0	4	0	26	1	0	0	0	0	36	2	28	1	2	1
		5	0	0	6	0	5	0	0	0	0	0	8	0	10	1	2	1
		6	0	0	3	0	7	0	0	0	0	0	10	0	8	0	2	1
		7 or more	0	0	2	0	17	1	1	1	0	0	12	1	18	1	3	1
Total	7	100	1,230	100	1,802	100	188	100	15	100	2,269	100	1,940	100	340	100		
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum.)	onlinecscol	No courses taken online	7	100	950	77	1,442	80	162	86	14	93	1,705	75	1,493	77	242	71
		Some courses taken online	0	0	247	20	269	15	25	13	1	7	422	19	333	17	82	24
		All courses taken online	0	0	33	3	91	5	1	1	0	0	142	6	114	6	16	5
		Total	7	100	1,230	100	1,802	100	188	100	15	100	2,269	100	1,940	100	340	100
25. What have most of your grades been up to now at this institution?	grades	C- or lower	0	0	20	2	48	3	3	2	0	0	12	1	10	1	3	1
		C	0	0	35	3	63	3	3	2	1	7	74	3	73	4	10	3
		C+	0	0	59	5	95	5	10	5	1	7	139	6	142	7	25	7
		B-	0	0	85	7	146	8	12	6	1	7	219	10	206	11	39	11
		B	1	14	210	17	364	20	35	19	2	13	490	22	424	22	70	21
		B+	2	29	254	21	321	18	39	21	3	20	440	19	337	17	68	20
		A-	2	29	240	19	314	17	35	19	2	13	368	16	308	16	46	13
		A	2	29	329	27	455	25	52	28	5	33	531	23	446	23	80	23
Total	7	100	1,232	100	1,806	100	189	100	15	100	2,273	100	1,946	100	341	100		
26. Did you begin college at this institution or elsewhere?	begincol	Started here	7	100	1,106	90	1,641	91	164	87	9	60	1,080	48	1,030	53	137	41
		Started elsewhere	0	0	121	10	161	9	25	13	6	40	1,185	52	909	47	201	59
		Total	7	100	1,227	100	1,802	100	189	100	15	100	2,265	100	1,939	100	338	100

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
27. Since graduating from high school, which of the following types of schools have you attended <i>other than</i> the one you are now attending? (Select all that apply.)	attend_voc	Vocational or technical school	0	0	33	3	77	4	7	4	1	7	179	8	158	8	28	8
	attend_com	Community or junior college	0	0	163	13	164	9	29	16	6	43	1,263	56	864	45	197	58
	attend_col	4-year college or university other than this one	1	14	109	9	163	9	19	10	0	0	655	29	543	28	111	33
	attend_none	None	6	86	903	74	1,376	77	129	69	7	50	667	30	705	36	89	26
	attend_other	Other	0	0	46	4	81	5	9	5	0	0	92	4	106	5	14	4
28. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree	1	14	95	8	128	7	20	11	2	13	211	9	161	8	36	11
		Bachelor's degree (B.A., B.S., etc.)	5	71	419	34	789	44	77	41	1	7	912	40	816	42	138	41
		Master's degree (M.A., M.S., etc.)	1	14	542	44	661	37	72	38	11	73	841	37	764	39	124	36
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	0	0	172	14	221	12	19	10	1	7	303	13	202	10	42	12
		Total	7	100	1,228	100	1,799	100	188	100	15	100	2,267	100	1,943	100	340	100
29. What is the highest level of education completed by either of your parents (or those who raised you)?	parented	Did not finish high school	1	14	119	10	134	7	12	6	0	0	204	9	161	8	36	11
		High school diploma or G.E.D.	1	14	231	19	297	17	47	25	3	20	375	17	319	16	53	16
		Attended college, but did not complete degree	0	0	109	9	187	10	23	12	3	20	224	10	197	10	50	15
		Associate's degree (A.A., A.S., etc.)	0	0	65	5	177	10	16	8	1	7	182	8	209	11	37	11
		Bachelor's degree (B.A., B.S., etc.)	5	71	354	29	562	31	46	24	5	33	712	31	636	33	87	26
		Master's degree (M.A., M.S., etc.)	0	0	260	21	352	20	35	19	3	20	415	18	315	16	61	18
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	0	0	87	7	87	5	10	5	0	0	153	7	98	5	16	5
		Total	7	100	1,225	100	1,796	100	189	100	15	100	2,265	100	1,935	100	340	100
First-generation status (Neither parent holds a bachelor's degree.)	firstgen (Recorded from parented.)	Not first-generation	5	71	701	57	1,001	56	91	48	8	53	1,280	57	1,049	54	164	48
		First-generation	2	29	524	43	795	44	98	52	7	47	985	43	886	46	176	52
		Total	7	100	1,225	100	1,796	100	189	100	15	100	2,265	100	1,935	100	340	100
30. What is your gender identity?	genderid	Man	4	57	842	69	1,266	70	136	72	14	93	1,542	68	1,459	75	219	64
		Woman	3	43	362	30	492	27	51	27	1	7	651	29	399	21	114	34
		Another gender identity	0	0	11	1	14	1	0	0	0	0	27	1	30	2	3	1
		I prefer not to respond	0	0	11	1	25	1	2	1	0	0	43	2	49	3	4	1
		Total	7	100	1,226	100	1,797	100	189	100	15	100	2,263	100	1,937	100	340	100
31. Enter your year of birth (e.g., 1994):	agecat (Recorded from the information entered in birthyear.)	19 or younger	7	100	1,100	90	1,560	88	160	86	0	0	17	1	11	1	1	0
		20-23	0	0	91	7	121	7	17	9	10	71	1,313	59	1,029	54	181	54
		24-29	0	0	22	2	36	2	6	3	1	7	558	25	515	27	87	26
		30-39	0	0	4	0	39	2	2	1	3	21	247	11	258	14	48	14
		40-55	0	0	2	0	19	1	1	1	0	0	94	4	88	5	14	4
		Over 55	0	0	0	0	6	0	0	0	0	0	12	1	9	0	3	1
		Total	7	100	1,219	100	1,781	100	186	100	14	100	2,244	100	1,941	100	340	100

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
32a. Are you an international student? [If answered "yes"] Country of citizenship, collapsed into regions by NSSE. Responses to country are in the data file.	internat	No	6	86	1,110	91	1,679	94	174	92	13	87	2,091	92	1,785	93	307	91
		Yes	1	14	116	9	114	6	15	8	2	13	170	8	140	7	31	9
		Total	7	100	1,226	100	1,793	100	189	100	15	100	2,261	100	1,925	100	338	100
	countrycol (Recoded from country.)	Africa Sub-Saharan	0	0	19	18	18	17	4	29	0	0	26	18	10	8	4	15
		Asia	1	100	29	28	35	34	2	14	1	50	45	31	31	25	2	8
		Canada	0	0	3	3	2	2	0	0	0	0	4	3	2	2	0	0
		Europe	0	0	9	9	10	10	2	14	0	0	5	3	6	5	2	8
		Latin America and Caribbean	0	0	31	30	16	16	5	36	1	50	35	24	15	12	11	42
		Middle East and North Africa	0	0	13	12	22	21	1	7	0	0	31	21	60	48	7	27
		Oceania	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
		Unknown region/uncoded	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	100	105	100	103	100	14	100	2	100	146	100	124	100	26	100		
33. How would you describe yourself? (Select all that apply.)	re_amin re_asian re_black re_latino re_mena re_pacific re_white re_another re_other re_pnr	American Indian or Alaska Native	0	0	49	4	43	2	2	1	0	0	76	3	36	2	8	2
		Asian	1	14	164	14	157	9	8	4	1	7	310	14	208	11	20	6
		Black or African American	1	14	107	9	177	10	32	17	0	0	213	10	163	8	74	22
		Hispanic or Latina/o	3	43	466	38	507	28	60	32	4	27	582	26	407	21	104	31
		Middle Eastern or N. African (2019)	0	0	19	3	13	1	1	1	0	0	42	3	30	3	6	3
		Native Hawaiian/Other Pac. Islander	0	0	11	1	16	1	0	0	1	7	23	1	21	1	4	1
		White	3	43	551	45	993	56	89	48	9	60	1,171	52	1,076	56	148	44
		Another race or ethnicity (2019)	0	0	9	1	20	2	1	1	0	0	14	1	22	2	1	0
		Other (2018)	0	0	14	3	21	3	0	0	0	0	30	4	49	5	5	4
		I prefer not to respond	0	0	33	3	62	3	7	4	0	0	93	4	103	5	13	4
	Racial or ethnic identification (Items re_amin to re_pnr recoded where each student is represented only once)	American Indian or Alaska Native	0	0	10	1	8	0	0	0	0	0	11	0	6	0	0	0
		Asian	1	14	137	11	125	7	7	4	1	7	244	11	163	8	13	4
		Black or African American	1	14	86	7	140	8	31	17	0	0	173	8	142	7	67	20
		Hispanic or Latina/o	2	29	343	28	398	22	49	26	4	27	445	20	338	18	80	24
		Middle Eastern or N. African (2019)	0	0	14	1	3	0	0	0	0	0	25	1	21	1	3	1
Native Hawaiian/Other Pac. Islander		0	0	3	0	2	0	0	0	1	7	3	0	5	0	0	0	
Total	White	2	29	394	32	839	47	77	42	9	60	952	43	955	50	118	35	
	Another race or ethnicity (2019)	0	0	2	0	9	1	0	0	0	0	6	0	16	1	1	0	
	Other (2018)	0	0	8	1	14	1	0	0	0	0	16	1	35	2	4	1	
	Multiracial	1	14	184	15	186	10	14	8	0	0	267	12	143	7	40	12	
	I prefer not to respond	0	0	33	3	62	3	7	4	0	0	93	4	103	5	13	4	
	Total	7	100	1,214	100	1,786	100	185	100	15	100	2,235	100	1,927	100	339	100	
	34. Are you a member of a social fraternity or sorority?	greek	No	6	86	1,133	93	1,722	96	178	95	13	87	2,003	89	1,786	92	307
Yes			1	14	91	7	72	4	9	5	2	13	248	11	149	8	32	9
Total			7	100	1,224	100	1,794	100	187	100	15	100	2,251	100	1,935	100	339	100

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	ASU				Southwest Public				Carnegie Class				SACSCOC Peers			
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
35. Which of the following best describes where you are living while attending college?	living18	Campus housing (other than a fraternity or sorority house)	5	71	650	53	789	44	119	64	0	0	187	8	243	13	47	14
		Fraternity or sorority house	0	0	10	1	5	0	0	0	0	0	17	1	10	1	2	1
		House, apartment, or other residence within walking distance to campus	0	0	96	8	279	16	14	8	4	27	487	22	439	23	77	23
		House, apartment, or other residence farther than walk. dist. to campus	2	29	439	36	638	36	51	28	11	73	1,437	64	1,151	60	204	61
		Not applicable: No campus, entirely online program, etc.	0	0	25	2	76	4	1	1	0	0	96	4	68	4	5	1
		Not applicable: Homeless or in transition	0	0	0	0	6	0	0	0	0	0	13	1	10	1	1	0
		Total	7	100	1,220	100	1,793	100	185	100	15	100	2,237	100	1,921	100	336	100
36. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No	6	86	1,177	96	1,662	93	175	94	13	87	2,200	98	1,836	95	321	95
		Yes	1	14	44	4	133	7	11	6	2	13	43	2	91	5	17	5
		Total	7	100	1,221	100	1,795	100	186	100	15	100	2,243	100	1,927	100	338	100
37. Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard?	veteran	No	7	100	1,204	99	1,734	97	182	98	13	87	2,058	92	1,746	91	308	91
		Yes	0	0	17	1	57	3	4	2	2	13	186	8	182	9	29	9
		Total	7	100	1,221	100	1,791	100	186	100	15	100	2,244	100	1,928	100	337	100
38a. Have you been diagnosed with any disability or impairment?	disability	No	7	100	1,087	89	1,540	86	159	85	12	80	1,946	86	1,647	85	289	86
		Yes	0	0	92	8	177	10	18	10	2	13	218	10	208	11	36	11
		I prefer not to respond	0	0	43	4	74	4	9	5	1	7	86	4	74	4	12	4
		Total	7	100	1,222	100	1,791	100	186	100	15	100	2,250	100	1,929	100	337	100
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense dis_mobility dis_learning dis_mental dis_other	A sensory impairment (vision or hearing)	0	0	15	16	40	23	2	11	0	0	27	13	34	17	3	8
		A mobility impairment	0	0	7	8	19	11	0	0	0	0	26	12	28	14	6	17
		A learning disability (e.g., ADHD, dyslexia)	0	0	46	50	86	49	12	67	2	100	106	49	104	50	20	56
		A mental health disorder	0	0	24	26	46	26	4	22	0	0	75	35	61	30	13	36
		A disability or impairment not listed above	0	0	15	16	31	18	3	17	0	0	49	23	36	17	4	11
		Disability or impairment	disability_all	A sensory impairment	0	0	10	1	28	2	2	1	0	0	15	1	17	1
(Items dis_sense to dis_other recoded where each student is represented only once.)	A mobility impairment	0	0	5	0	9	1	0	0	0	0	9	0	13	1	1	0	
A learning disability	0	0	37	3	58	3	10	5	2	13	77	3	79	4	14	4		
A mental health disorder	0	0	15	1	26	1	2	1	0	0	42	2	33	2	6	2		
A disability or impairment not listed	0	0	11	1	17	1	2	1	0	0	26	1	19	1	2	1		
More than one disability or impairment	0	0	14	1	38	2	2	1	0	0	47	2	45	2	10	3		
No disability or impairment	7	100	1,087	89	1,540	86	159	85	12	80	1,946	87	1,647	85	289	86		
Prefer not to respond	0	0	43	4	74	4	9	5	1	7	86	4	74	4	12	4		

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
			Total	7	100	1,222	100	1,790	100	186	100	15	100	2,248	100	1,927	100	337

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	ASU				Southwest Public				Carnegie Class				SACSCOC Peers			
			ASU		Southwest Public		Carnegie Class		SACSCOC Peers		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)	7	100	1,081	88	1,580	88	163	88	14	93	1,980	88	1,704	88	307	90
		Bisexual	0	0	41	3	67	4	6	3	0	0	72	3	49	3	9	3
		Gay	0	0	11	1	12	1	1	1	0	0	25	1	19	1	4	1
		Lesbian	0	0	10	1	11	1	0	0	0	0	12	1	8	0	5	1
		Queer	0	0	5	0	4	0	3	2	0	0	8	0	4	0	0	0
		Questioning or unsure	0	0	19	2	26	1	2	1	0	0	13	1	11	1	1	0
		Another sexual orientation	0	0	16	1	19	1	2	1	0	0	33	1	30	2	5	1
		I prefer not to respond	0	0	44	4	79	4	9	5	1	7	113	5	107	6	10	3
Total	7	100	1,227	100	1,798	100	186	100	15	100	2,256	100	1,932	100	341	100		

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

Institution-reported: Sex	IRsex19	Female	3	43	370	29	511	28	53	27	1	7	676	29	418	21	114	33
		Male	4	57	888	71	1,322	72	142	73	14	93	1,631	71	1,557	79	233	67
		Another	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Unknown	0	0	0	0	5	0	0	0	0	0	1	0	1	0	0	0
		Total	7	100	1,258	100	1,838	100	195	100	15	100	2,308	100	1,976	100	347	100
Institution-reported: Race or ethnicity	IRrace	American Indian or Alaska Native	0	0	13	1	7	0	0	0	0	0	21	1	11	1	1	0
		Asian	0	0	109	9	94	6	4	2	0	0	216	9	135	8	7	2
		Black or African American	1	14	77	6	121	8	28	16	0	0	149	7	125	7	59	18
		Hispanic or Latino	3	43	473	38	288	20	56	32	3	20	581	25	290	17	100	30
		Native Hawaiian/Other Pac. Islander	0	0	1	0	4	0	0	0	1	7	5	0	5	0	0	0
		White	2	29	382	31	757	51	74	42	9	60	999	44	925	53	120	37
		Other	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		Foreign or nonresident	1	14	110	9	104	7	8	5	2	13	170	7	130	7	26	8
		Two or more races/ethnicities	0	0	52	4	48	3	1	1	0	0	96	4	50	3	8	2
		Total	7	100	1,240	100	1,472	100	176	100	15	100	2,282	100	1,756	100	328	100
Institution-reported: Class level	IRclass	Freshman/First-Year	7	100	1,258	100	1,838	100	195	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	15	100	2,308	100	1,976	100	347	100
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	7	100	1,258	100	1,838	100	195	100	15	100	2,308	100	1,976	100	347	100
Institution-reported: First-time first-year (FTFY) student	IRftfy	Not first-time first-year	0	0	141	11	249	14	35	18	15	100	2,300	100	1,968	100	347	100
		First-time first-year	7	100	1,117	89	1,589	86	160	82	0	0	8	0	8	0	0	0
		Total	7	100	1,258	100	1,838	100	195	100	15	100	2,308	100	1,976	100	347	100
Institution-reported: Enrollment status	IRenrollment	Not full-time	0	0	98	8	102	6	10	5	0	0	480	21	335	17	67	19
		Full-time	7	100	1,160	92	1,736	94	185	95	15	100	1,828	79	1,641	83	280	81

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

Respondent Profile: Engineering

Angelo State University

Engineering

First-Year Students^a





Seniors^a

Item wording or description	Variable name	Response options	ASU		Southwest Public		Carnegie Class		SACSCOC Peers		ASU		Southwest Public		Carnegie Class		SACSCOC Peers	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
			Total	7	100	1,258	100	1,838	100	195	100	15	100	2,308	100	1,976	100	347

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 +/- 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.
