
Tennessee Technological University

NSSE 2020 Major Field Report, Part II

Comparisons to Other Institutions

Natural Math Science

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

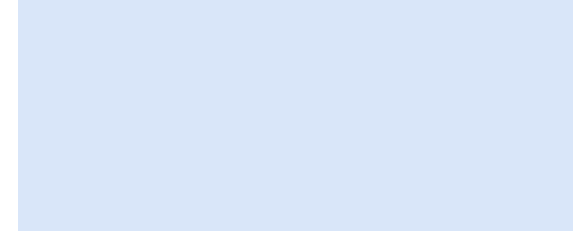
The Major Field Report group 'Natural Math Science' includes the following majors: Allied health; Astronomy; Atmospheric science (including meteorology); Biochemistry or biophysics; Biology (general); Biomedical science; Botany; Cell and molecular biology; Chemistry; Dentistry; Earth science (including geology); Geography; Marine science; Mathematics; Medicine; Microbiology or bacteriology; Natural science; Neuroscience; Other biological sciences; Other health professions; Other physical sciences; Pharmacy; Physical sciences (general); Physics; Physiology and developmental biology; Statistics; Zoology.



Note:

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

About Your *Major Field Report, Part II*



Related Major Groups

Sample

Class

Technical

NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Natural Math Science Tennessee Technological University

First year students^a in Natural Math Science

	Mean			Percentiles					Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th				
Academic Challenge												
Higher Order Learning												
Tennessee Tech (N = 47)	40.2	13.1	1.92	20	30	40	50	60				
Southeast Public	39.5	13.5	.18	20	30	40	50	60	5,565	.8		.056
Carnegie Class	39.4	12.9	.17	20	30	40	50	60	5,514	.8		.064
NSSE 2019 & 2020	39.7	12.9	.07	20	30	40	50	60	32,184	.5		.041
Reflective & Integrative Learning												
Tennessee Tech (N = 47)	33.4	12.0	1.75	20	23	31	40	57				
Southeast Public	35.4	12.0	.16	17	26	34	43	57	5,642	-2.0		-.168
Carnegie Class	35.4	11.5	.15	17	29	34	43	57	5,578	-2.0		-.173
NSSE 2019 & 2020	35.5	11.6	.06	17	29	34	43	57	32,520	-2.1		-.184
Learning Strategies												
Tennessee Tech (N = 47)	40.0	14.1	2.06	20	27	40	53	60				
Southeast Public	40.3	13.8	.19	20	33	40	53	60	5,580	-.3		-.024
Carnegie Class	39.3	13.6	.18	20	27	40	53	60	5,518	.7		.052
NSSE 2019 & 2020	39.9	13.6	.08	20	33	40	53	60	32,202	.1		.010
Quantitative Reasoning												
Tennessee Tech (N = 47)	31.2	14.4	2.10	7	20	27	40	60				
Southeast Public	30.8	15.6	.21	7	20	27	40	60	5,554	.4		.025
Carnegie Class	30.8	14.6	.20	7	20	33	40	60	5,502	.4		.027
NSSE 2019 & 2020	31.0	14.9	.08	7	20	33	40	60	32,101	.2		.016
Learning with Peers												
Collaborative Learning												
Tennessee Tech (N = 47)	37.9	15.1	2.21	15	25	40	55	60				
Southeast Public	35.4	14.3	.19	10	25	35	45	60	5,634	2.5		.174
Carnegie Class	36.0	14.0	.19	15	25	35	45	60	5,547	1.9		.136
NSSE 2019 & 2020	35.9	13.9	.08	15	25	35	45	60	32,409	1.9		.140
Discussions with Diverse Others												
Tennessee Tech (N = 45)	43.2	15.4	2.30	10	35	45	60	60				
Southeast Public	41.8	15.4	.21	15	30	40	60	60	5,571	1.4		.093
Carnegie Class	40.0	15.2	.20	15	30	40	55	60	5,516	3.2		.211
NSSE 2019 & 2020	40.7	15.1	.08	15	30	40	55	60	32,165	2.6		.169



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Natural Math Science Tennessee Technological University

First year students^a in Natural Math Science

	Mean			Percentiles					Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th				
Experiences with Faculty												
Student Faculty Interaction												
Tennessee Tech (N = 47)	24.7	14.3	2.09	5	15	25	35	50				
Southeast Public	22.7	15.0	.20	0	10	20	30	50	5,583	2.0		.131
Carnegie Class	21.8	14.6	.20	0	10	20	30	50	5,505	2.9		.199
NSSE 2019 & 2020	22.6	14.6	.08	0	10	20	30	50	32,159	2.1		.143
Effective Teaching Practices												
Tennessee Tech (N = 47)	41.5	13.9	2.02	20	32	40	60	60				
Southeast Public	38.4	13.4	.18	16	28	40	48	60	5,615	3.1		.235
Carnegie Class	37.8	12.6	.17	16	28	40	48	60	5,557	3.7	*	.295
NSSE 2019 & 2020	39.0	12.8	.07	20	32	40	48	60	32,432	2.5		.198
Campus Environment												
Quality of Interactions												
Tennessee Tech (N = 47)	45.9	10.4	1.51	28	38	48	54	60				
Southeast Public	43.2	11.6	.16	22	36	44	52	60	5,387	2.7		.231
Carnegie Class	42.8	11.2	.15	22	36	44	50	60	5,306	3.1		.278
NSSE 2019 & 2020	43.4	11.3	.06	22	38	44	52	60	31,142	2.4		.217
Supportive Environment												
Tennessee Tech (N = 47)	36.6	13.9	2.02	18	28	35	43	60				
Southeast Public	38.2	13.2	.18	18	30	40	48	60	5,591	-1.6		-.120
Carnegie Class	36.5	13.0	.18	15	28	38	45	60	5,529	.2		.015
NSSE 2019 & 2020	37.3	13.1	.07	15	28	38	48	60	32,275	-.6		-.047

Seniors^a in Natural Math Science

	<i>Mean</i>	<i>SD^b</i>	<i>SEM^c</i>	<i>5th</i>	<i>25th</i>	<i>50th</i>	<i>75th</i>	<i>95th</i>	<i>Deg. of freedom^e</i>	<i>Mean diff.</i>	<i>Sig.^f</i>	<i>Effect size^g</i>
Academic Challenge												
Higher Order Learning												
Tennessee Tech (N = 35)	38.3	12.7	2.14	20	30	40	50	60				
Southeast Public	40.1	13.7	.18	20	30	40	50	60	5,708	-1.9		-.136
Carnegie Class	39.3	13.3	.18	20	30	40	50	60	5,344	-1.0		-.076
NSSE 2019 & 2020	40.3	13.3	.07	20	30	40	50	60	33,613	-2.0		-.149
Reflective & Integrative Learning												
Tennessee Tech (N = 36)	33.3	11.3	1.88	20	24	31	40	51				
Southeast Public	37.0	12.4	.16	17	29	37	46	60	5,772	-3.7		-.299
Carnegie Class	36.9	11.9	.16	17	29	37	46	57	5,400	-3.6		-.303
NSSE 2019 & 2020	37.1	12.0	.07	17	29	37	46	60	33,958	-3.8		-.313
Learning Strategies												
Tennessee Tech (N = 35)	42.1	14.4	2.44	13	27	47	53	60				
Southeast Public	40.8	14.1	.19	20	33	40	53	60	5,726	1.3		.092
Carnegie Class	38.9	14.4	.20	13	27	40	53	60	5,357	3.2		.226

NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science Tennessee Technological University

First Year Students^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	Tn		Pb		Tn		Tn		Your first year students compared with										
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Effect size ⁿ	Effect size ⁿ							
1. During the current school year, about how often have you done the following?																						
a.		1	Never	2	4	227	4	210	4	1,032	3	2.7	2.8	-.06	2.7	-.02	2.8	-.11				
		2	Sometimes	18	40	2,131	38	2,210	40	11,724	36											
		3	Often	15	33	1,883	34	1,886	34	11,575	36											
		4	Very often	10	22	1,379	25	1,228	22	8,192	25											
			Total	45	100	5,620	100	5,534	100	32,523	100											
b.	Come to class without completing readings or assignments	unpreparedr (Reverse-coded version of unprepared created by NSSE.)	1	Very often	2	4	268	5	249	5	1,424	4	3.3	3.1	.22	3.1	.23	3.1	.18			
		2	Often	2	4	653	12	619	11	3,363	10											
		3	Sometimes	25	53	3,005	54	3,096	56	17,637	54											
		4	Never	18	38	1,686	30	1,568	28	10,092	31											
			Total	47	100	5,612	100	5,532	100	32,516	100											
c.	Attended an art exhibit, p12(th)16,(s)]Tc<0003F		1	Never	2	4	2,411	43	2,339	42	13,315	41	2.3	1.8 ***	.56	1.8 ***	.61	1.8 ***	.54			
		2	Sometimes	32	68	2,134	38	2,206	40	12,839	39											
		3	Often	9	19	727	13	715	13	4,413	14											
		4	Very often	4	9	347	6	279	5	1,975	6											
			Total	47	100	5,619	100	5,539	100	32,542	100											
d.		1	Never	4	9	380	7	316	6	1,952	6	2.8	2.7	.10	2.8	.03	2.8	.06				
		2	Sometimes	14	30	1,935	34	1,808	33	10,907	34											
		3	Often	15	32	2,048	36	2,069	37	12,142	37											
		4	Very often	14	30	1,257	22	1,339	24	7,552	23											
			Total	47	100	5,620	100	5,532	100	32,553	100											
e.		1	Never	0	0	187	3	150	3	973	3	3.0	2.9	.08	2.9	.05	2.9	.07				
		2	Sometimes	17	36	1,705	30	1,597	29	9,627	30											
		3	Often	15	32	2,265	40	2,353	42	13,646	42											
		4	Very often	15	32	1,467	26	1,442	26	8,314	26											
			Total	47	100	5,624	100	5,542	100	32,560	100											

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Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

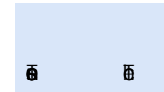
First Year Students^a in Natural Math Science

Item wording or description Variable name^l Values^m Response options Count % Pb Cg Cb NS 2019 & Mean Effect sizeⁿ Effect sizeⁿ Effect sizeⁿ



Pb Cg Cb

NS 2019 &



Your first year students compared with

Effect sizeⁿ Effect sizeⁿ Effect sizeⁿ



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science Tennessee Technological University

First Year Students^a in Natural Math Science

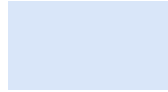
Item wording or description	Variable name ^l	Values ^m	Response options	F ₉		D ₆		NS 2019 & 2020		k Your first year students compared with							
				Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d.		1	Never	1	2	268	5	266	5	1,520	5						
		2	Sometimes	23	50	1,768	32	1,733	31	10,173	31						

First Year Students^a in

*Item wording
or description*

*Variable
name^j*

Values^m

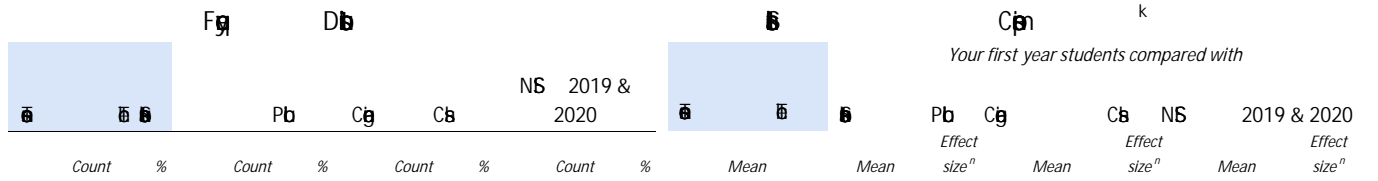


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Frequencies and Statistical Comparisons: Natural Math Science Tennessee Technological University

First Year Students^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	Count		%		NS 2019 & 2020		Mean		Effect size ⁿ		Mean		Effect size ⁿ	

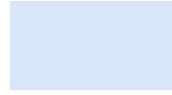


First Year Students^a in

Item wording
or description

Variable
name^j

Values^m Response options

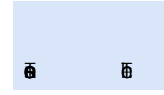


Count %

Count %

Count %

Count %



Mean

Effect
size

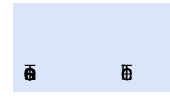
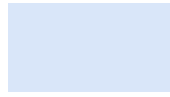
NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math

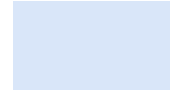
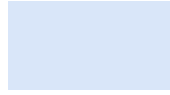
Tennessee Technological University

First Year Students^a in

<i>Item wording or description</i>	<i>Variable name^j</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>Effect sizeⁿ</i>	<i>Effect sizeⁿ</i>	<i>Effect sizeⁿ</i>
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First Year Students^a in

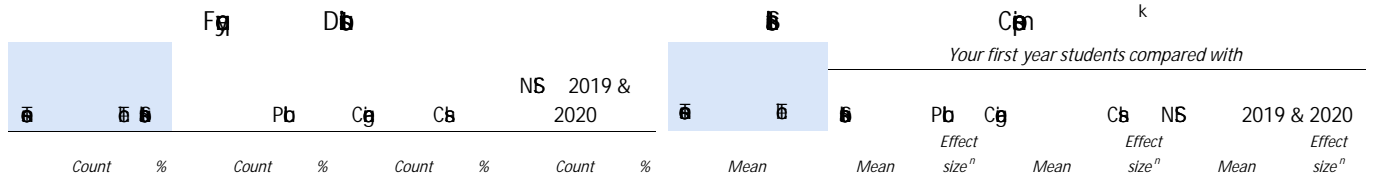


NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science Tennessee Technological University

First Year Students^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	Count		%		NS 2019 & 2020		Mean		Mean		Effect size ⁿ		Effect size ⁿ		2019 & 2020		Effect size ⁿ		



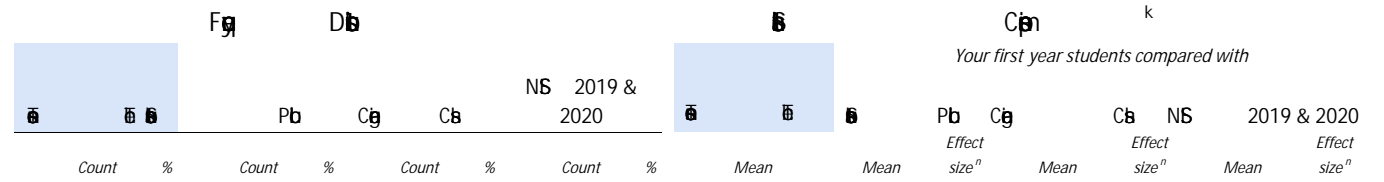
NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

First Year Students^a in Natural Math Science

Item wording or description
Variable name
Values
Response options
Count %
Count %
Count %
Count %
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Mean Mean
Effect sizeⁿ Mean
Effect sizeⁿ Mean
Effect sizeⁿ Mean
Effect sizeⁿ





NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

First Year Students^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	F _g		D _b		NS 2019 & 2020		E _h		C _{pn} ^k <i>Your first year students compared with</i>						
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
				P _b	C _g	C _a	NS	2019 & 2020	P _b	C _g	C _a	NS	2019 & 2020					
d.		1	Very little	3	6	542	10	670	12	3,297	10	2.7	2.8	-.09	2.7	.05	2.8	-.05
		2	Some	17	36	1,498	27	1,667	30	8,861	27							
		3	Quite a bit	16	34	1,875	34	1,811	33	11,266	35							
		4	Very much	11	23	1,642	30	1,337	24	8,831	27							
		Total		47	100	5,557	100	5,485	100	32,255	100							
e.		1	Very little	1	2	251	5	262	5	1,539	5	3.0	3.1	-.05	3.0	.05	3.0	.03
		2	Some	12	26	1,083	20	1,215	22	6,911	21							
		3	Quite a bit	18	38	2,161	39	2,254	41	13,164	41							
		4	Very much	16	34	2,054	37	1,739	32	10,585	33							
		Total		47	100	5,549	100	5,470	100	32,199	100							
f.		1	Very little	1	2	293	5	350	6	1,863	6	3.0	3.1	-.02	3.0	.09	3.0	.06
		2	Some	13	28	1,105	20	1,239	23	7,085	22							
		3	Quite a bit	16	34	2,136	38	2,171	40	12,831	40							
		4	Very much	17	36	2,017	36	1,719	31	10,446	32							
		Total		47	100	5,551	100	5,479	100	32,225	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	12	26	1,183	21	1,276	23	6,894	21	2.2	2.4	-.22	2.3	-.12	2.3	-.18
		2	Some	20	43	1,946	35	2,090	38	11,958	37							
		3	Quite a bit	10	21	1,516	27	1,393	25	8,646	27							
		4	Very much	5	11	900	16	724	13	4,715	15							
		Total		47	100	5,545	100	5,483	100	32,213	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	3	6	367	7	407	7	2,490	8	2.9	3.0	-.11	2.9	.02	2.9	.00
		2	Some	14	30	1,213	22	1,427	26	8,198	25							
		3	Quite a bit	16	34	2,152	39	2,201	40	12,559	39							
		4	Very much	14	30	1,811	33	1,443	26	8,964	28							
		Total		47	100	5,543	100	5,478	100	32,211	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	10	21	825	15	877	16	4,791	15	2.3	2.6	-.22	2.5	-.13	2.5	-.19
		2	Some	19	40	1,907	34	2,068	38	11,527	36							
		3	Quite a bit	10	21	1,744	31	1,682	31	10,270	32							
		4	Very much	8	17	1,069	19	860	16	5,648	18							
		Total		47	100	5,545	100	5,487	100	32,236	100							



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science Tennessee Technological University

First Year Students^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	F ₉		D ₆		NS 2019 & 2020		Your first year students compared with ^k							
				Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
				P ₆	C ₆	C ₆	NS	2019 & 2020	P ₆	C ₆	C ₆	NS	2019 & 2020	Effect size ⁿ			
15. To what extent do you agree or disagree with the following statements?																	
a.																	
	1	Strongly disagree	0	0	80	2	57	2	376	2	3.4	3.3	.06	3.3	.12	3.3	.12
	2	Disagree	1	2	245	6	214	8	1,456	7							
	3	Agree	28	60	2,021	50	1,441	51	10,230	52							
	4	Strongly agree	18	38	1,719	42	1,122	40	7,677	39							
	Total		47	100	4,065	100	2,834	100	19,739	100							
b.	1	Strongly disagree	0	0	149	4	108	4	645	3							

NSSE 2020 Major Field Report,

First Year Students^a in

<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>Effect sizeⁿ</i>	<i>Effect sizeⁿ</i>	<i>Effect sizeⁿ</i>
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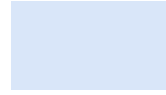
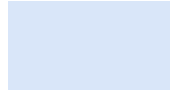
Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

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Item wording or description	Variable name ^l	Values ^m	Response options	F _g		D _b		NS 2019 & 2020		C _{pn} ^k Your first year students compared with								
				Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
				P _b	C _g	C _b	Mean	Mean	Mean	Mean	Mean	Mean						
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	<i>(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	0	0	105	2	81	1	553	2	14.0	12.2	.21	11.9	.25	11.8	.26
		3	1-5 hrs	6	13	1,188	21	1,199	22	7,159	22							
		8	6-10 hrs	14	30	1,539	28	1,588	29	9,200	29							
		13	11-15 hrs	11	23	1,134	20	1,141	21	6,670	21							
		18	16-20 hrs	5	11	756	14	732	13	4,315	13							
		23	21-25 hrs	7	15	335	6	313	6	1,823	6							
		28	26-30 hrs	0	0	129	2	146	3	797	2							
		33	More than 30 hrs	4	9	366	7	293	5	1,716	5							
	Total	47	100	5,552	100	5,493	100	32,233	100									
g. Providing care for dependents (children, parents, etc.)	<i>(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	37	79	4,541	82	4,519	82	26,024	81	1.2	1.8	-.12	1.7	-.10	1.9	-.13
		3	1-5 hrs	8	17	438	8	460	8	2,920	9							
		8	6-10 hrs	1	2	201	4	190	3	1,147	4							
		13	11-15 hrs	0	0	143	3	125	2	771	2							
		18	16-20 hrs	0	0	79	1	77	1	471	1							
		23	21-25 hrs	1	2	53	1	42	1	256	1							
		28	26-30 hrs	0	0	18	0	15	0	110	0							
		33	More than 30 hrs	0	0	70	1	57	1	485	2							
	Total	47	100	5,543	100	5,485	100	32,184	100									
h. Commuting to campus (driving, walking, etc.)	<i>(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	15	32	2,098	38	2,261	41	14,619	45	4.1	4.4	-.06	3.8	.05	3.8	.05
		3	1-5 hrs	20	43	2,032	37	2,088	38	10,740	33							
		8	6-10 hrs	7	15	782	14	636	12	3,711	12							
		13	11-15 hrs	4	9	303	5	249	5	1,544	5							
		18	16-20 hrs	0	0	134	2	109	2	654	2							
		23	21-25 hrs	1	2	77	1	50	1	363	1							
		28	26-30 hrs	0	0	30	1	28	1	158	0							
		33	More than 30 hrs	0	0	101	2	72	1	461	1							
	Total	47	100	5,557	100	5,493	100	32,250	100									

First Year





NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science Tennessee Technological University

First Year Students^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	F ₉		D ₆		NS 2019 & 2020		B		C ₁₀		k				
				Your first year students compared with														
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	1	2	527	9	646	12	3,076	10	2.7	2.8	-.11	2.7	.00	2.8	-.08
		2	Some	22	47	1,530	28	1,644	30	9,170	28							
		3	Quite a bit	14	30	1,983	36	1,902	35	11,730	36							
		4	Very much	10	21	1,517	27	1,299	24	8,265	26							
		Total	47	100	5,557	100	5,491	100	32,241	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	1	2	629	11	624	11	3,587	11	2.9	2.7	.17	2.6	.24	2.7	.21
		2	Some	16	34	1,730	31	1,873	34	10,510	33							
		3	Quite a bit	19	40	1,929	35	1,913	35	11,468	36							
		4	Very much	11	23	1,278	23	1,075	20	6,678	21							
		Total	47	100	5,566	100	5,485	100	32,243	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	5	11	703	13	746	14	4,029	12	2.5	2.7	-.14	2.6	-.05	2.6	-.10
		2	Some	19	40	1,720	31	1,892	34	10,567	33							
		3	Quite a bit	16	34	1,877	34	1,779	32	11,044	34							
		4	Very much	7	15	1,265	23	1,078	20	6,640	21							
		Total	47	100	5,565	100	5,495	100	32,280	100								
19. How would you evaluate your entire educational experience at this institution?																		
	evalexp	1	Poor	0	0	96	2	97	2	531	2	3.4	3.2	.24	3.2 *	.29	3.2	.26
		2	Fair	4	9	685	12	725	13	4,141	13							
		3	Good	21	45	2,759	49	2,816	51	16,183	50							
		4	Excellent	22	47	2,035	37	1,870	34	11,471	35							
		Total	47	100	5,575	100	5,508	100	32,326	100								
20. If you could start over again, would you go to the same institution you are now attending?																		
	sameinst	1	Definitely no	0	0	221	4	196	4	1,126	3	3.4	3.2	.20	3.2	.25	3.2	.25
		2	Probably no	3	6	666	12	710	13	4,178	13							
		3	Probably yes	22	47	2,265	40	2,377	43	14,132	44							
		4	Definitely yes	22	47	2,450	44	2,240	41	12,996	40							
		Total	47	100	5,602	100	5,523	100	32,432	100								
21. Do you intend to return to this institution next year?																		
(Means indicate the percentage who responded "Yes.")	returnexp	No		0	0	200	4	179	3	1,131	3	96%	91%	.20	90%	.22	90%	.24
		Yes		45	96	5,080	91	4,975	90	29,019	90							
		Not sure		2	4	321	6	368	7	2,247	7							
		Total		47	100	5,601	100	5,522	100	32,397	100							



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	Your seniors compared with														
				F ₉		D ₆		S ₆		C ₆ ⁿ		k						
				Count	%	Count	%	Count	%	Count	%	Count	%	Mean	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 2 3 4	Never Sometimes Often Very often	3 10 13 10	8 28 36 28	205 1,680 1,866 1,986	4 29 33 35	172 1,647 1,749 1,795	3 31 33 33	994 9,576 10,943 12,405	3 28 32 37	2.8	3.0	-.17	3.0	-.15	3.0	-.22
b. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1 2 3 4	Very often Often Sometimes Never	5 1 15 15	14 3 42 42	366 797 3,142 1,434	6 14 55 25	364 745 2,956 1,293	7 14 55 24	2,009 4,584 18,692 8,650	6 14 55 25	3.1	3.0	.16	3.0	.18	3.0	.14
c. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1 2 3 4	Never Sometimes Often Very often	22 10 3 1	61 28 8 3	2,760 2,123 575 281	48 37 10 5	2,444 2,072 562 285	46 39 10 5	15,090 13,232 3,785 1,837	44 39 11 5	1.5	1.7	-.23	1.8	-.27	1.8	-.29
d. Asked another student to help you understand course material	CLaskhelp	1 2 3 4	Never Sometimes Often Very often	4 11 13 8	11 31 36 22	455 2,182 1,870 1,230	8 38 33 21	485 2,055 1,713 1,113	9 38 32 21	2,796 12,695 11,337 7,111	8 37 33 21	2.7	2.7	.02	2.6	.06	2.7	.03
e. Explained course material to one or more students	CLexplain	1 2 3 4	Never Sometimes Often Very often	0 8 18 10	0 22 50 28	172 1,525 2,263 1,785	3 27 39 31	192 1,514 2,056 1,608	4 28 38 30	1,068 9,204 13,484 10,212	3 27 40 30	3.1	3.0	.08	2.9	.13	3.0	.11

NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in Natural Math Science

Item wording or description	Variable name ⁱ	Values ^m	Response options	F ₉		D ₆		NS 2019 & 2020		S ₆		C ₁₀ ^k Your seniors compared with						
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
				P _b	C ₉	C ₆	C ₅	C ₆	C ₅	C ₆	C ₅	P _b	C ₉	C ₆	NS	2019 & 2020		
f.		1	Never	5	14	632	11	740	14	4,028	12	2.7	2.7	-.07	2.6	.04	2.7	-.03
	2	Sometimes	10	28	1,847	32	1,818	34	10,948	32								
	3	Often	13	36	1,699	30	1,527	28	10,254	30								
	4	Very often	8	22	1,564	27	1,283	24	8,729	26								
	Total			36	100	5,742	100	5,368	100	33,959	100							
g.		1	Never	3	8	304	5	320	6	1,709	5	2.8	2.9	-.12	2.8	-.06	2.9	-.14
	2	Sometimes	10	28	1,687	29	1,694	32	9,657	28								
	3	Often	15	42	2,116	37	1,906	36	12,945	38								
	4	Very often	8	22	1,638	29	1,445	27	9,654	28								
	Total			36	100	5,745	100	5,365	100	33,965	100							
h.		1	Never	4	11	701	12	669	12	3,462	10	2.6	2.6	-.02	2.6	.03	2.7	-.09
	2	Sometimes	12	33	2,114	37	2,066	38	11,973	35								
	3	Often	15	42	1,716	30	1,603	30	10,992	32								
	4	Very often	5	14	1,213	21	1,034	19	7,543	22								
	Total			36	100	5,744	100	5,372	100	33,970	100							
i.	During your current school year, about how often have you done the following?	1	Never	9	25	1,107	19	1,187	21	5,440	16	2.8	3.0	-.24	2.9	-.24	2.9	-.22
	2	Sometimes	16	44	1,553	27	1,395	26	9,382	28								
	3	Often	13	36	2,299	40	2,305	43	14,127	42								
	4	Very often	7	19	1,688	29	1,486	28	9,295	27								
	Total			36	100	5,739	100	5,369	100	33,923	100							

NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in

Item wording or description Variable name^l Values^m Response options Count % Count % Count % Count % Count % Mean Mean Effect sizeⁿ Mean Effect sizeⁿ Mean Effect sizeⁿ

		Count		Count		Count		Count		Mean		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
			%		%		%		%			Pb	Cb	Cb	NS	2019 & 2020	
		Fg		Db		NS		2019 & 2020		Cjn		k		Your seniors compared with			
		Pb		Cb		NS		2019 & 2020		Mean		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science Tennessee Technological University

Seniors^a in Natural Math Science

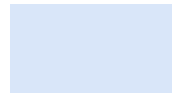
Item wording or description	Variable name ^l	Values ^m	Response options	NS 2019 & 2020										Your seniors compared with ^k				
				Fg		Db		NS		2019 & 2020		Cjn		k				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	3	8	1,178	21	1,195	22	6,387	19	2.5	2.3	.19	2.3	.29	2.4	.17
		2	Sometimes	17	47	2,310	40	2,285	43	13,912	41							
		3	Often	10	28	1,306	23	1,196	22	8,424	25							
		4	Very often	6	17	918	16	685	13	5,115	15							
		Total		36	100	5,712	100	5,361	100	33,838	100							
d. Discussed your academic performance with a faculty member	SFperform	1	Never	3	8	1,055	18	1,271	24	6,600	19	2.6	2.3	.29	2.2 **	.46	2.3 *	.33
		2	Sometimes	15	42	2,494	44	2,407	45	14,870	44							
		3	Often	11	31	1,351	24	1,094	20	7,899	23							
		4	Very often	7	19	830	14	588	11	4,522	13							
		Total		36	100	5,730	100	5,360	100	33,891	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	198	3	207	4	1,357	4	3.5	3.1 **	.49	3.0 **	.53	3.0 **	.54
		2	Some	3	8	1,221	21	1,178	22	7,684	23							
		3	Quite a bit	13	36	2,315	40	2,223	42	13,957	41							
		4	Very much	20	56	1,996	35	1,741	33	10,883	32							
		Total		36	100	5,730	100	5,349	100	33,881	100							
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	0	0	140	2	119	2	688	2	3.2	3.2	.06	3.1	.10	3.2	.05
		2	Some	6	17	972	17	979	18	5,636	17							
		3	Quite a bit	16	46	2,494	44	2,399	45	15,073	45							
		4	Very much	13	37	2,119	37	1,859	35	12,474	37							
		Total		35	100	5,725	100	5,356	100	33,871	100							
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	0	0	187	3	197	4	1,009	3	3.0	3.1	-.09	3.0	-.04	3.1	-.09
		2	Some	9	25	1,138	20	1,145	21	6,852	20							
		3	Quite a bit	18	50	2,458	43	2,297	43	14,546	43							
		4	Very much	9	25	1,939	34	1,708	32	11,423	34							
		Total		36	100	5,722	100	5,347	100	33,830	100							
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	5	14	407	7	417	8	2,159	6	2.7	2.9	-.15	2.8	-.08	2.9	-.16
		2	Some	10	28	1,539	27	1,533	29	9,181	27							
		3	Quite a bit	11	31	2,233	39	2,113	40	13,713	41							
		4	Very much	10	28	1,537	27	1,282	24	8,786	26							
		Total		36	100	5,716	100	5,345	100	33,839	100							

Seniors^a in

Item wording
or description

Variable
name^j

Values^m Response options



Count %

F₉

Count %

D₆

Count %

Count %



Mean

Effect
sizeⁿ

C₅ p_{0.006}

Your seniors compared with

C₉

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sizeⁿ

2019 & 2020

Effect
sizeⁿ

NSSE 2020 Major Field Report, Part II: Comparisons to

Seniors^a in

Item wording or description	Variable name ^l	Values ^m	Response options	Count		%		NS	2019 & 2020		Mean		Pb	Cg	Cb	NS	2019 & 2020		
				Count	%	Count	%		Count	%	Effect size ⁿ	Mean					Effect size ⁿ	Mean	Effect size ⁿ

Your seniors compared with



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in Natural Math Science

Item wording or description	Variable name ^j	Values ^m	Response options	F ₉		D ₆		NS 2019 & 2020		C ₁₀ ^k Your seniors compared with								
				Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
				P _b	C _g	C _b	NS	2019 & 2020	P _b	C _g	C _b	NS	2019 & 2020					
c.		0	None	29	81	3,192	56	2,973	56	17,360	51							
		1.5	1-2	4	11	1,658	29	1,633	31	11,205	33							
		4	3-5	1	3	439	8	428	8	2,917	9							
		8	6-10	1	3	181	3	158	3	1,078	3	.9	1.7	-.23	1.5	-.19	1.7	-.24
		13	11-15	1	3	121	2	80	1	614	2							
		18	16-20	0	0	44	1	24	0	244	1							
		23	More than 20	0	0	70	1	41	1	360	1							
		Total		36	100	5,705	100	5,337	100	33,778	100							

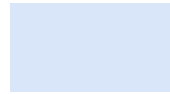
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68.9 * -0.33 66.6 * -0.35 72.3 *

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

2.9 3.2 * -0.33 3.1 -0.16 3.1 -0.22

Seniors^a in



Your seniors compared with

Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	C _g	C _b	NS	2019 & 2020	Effect size ⁿ
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NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in Natural Math Science

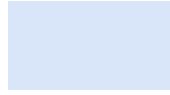
Item wording or description	Variable name ^l	Values ^m	Response options	Your seniors compared with														
				F ₉		D ₆		S ₆		C ₁₀		k		NS 2019 & 2020				
				Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ
d.		1	Poor	1	3	228	4	220	4	1,412	4	4.8	5.0	-.11	4.8	-.01	4.9	-.07
		2		3	8	231	4	275	5	1,510	4							
		3		4	11	369	6	457	9	2,530	7							
		4		4	11	833	15	791	15	4,845	14							
		5		7	19	1,183	21	1,091	20	7,064	21							
		6		5	14	1,006	18	1,189	21	7,064	21							

Seniors^a in

Item wording
or description

Variable
name^j

Values^m Response options

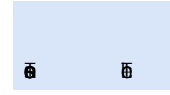


Count %

Count %

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Mean

Effect
sizeⁿ

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sizeⁿ



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	F _g		D _b		NS 2019 & 2020		C _{pn} ^k Your seniors compared with								
				Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
				P _b	C _g	C _b	NS	2019 & 2020	P _b	C _g	C _b	NS	2019 & 2020	Effect size ⁿ				
15. To what extent do you agree or disagree with the following statements?																		
a.		1	Strongly disagree	2	6	86	2	83	3	505	2	3.1	3.4	-.31	3.3	-.22	3.3	-.24
		2	Disagree	5	14	270	6	211	7	1,441	7							
		3	Agree	15	42	1,918	46	1,335	47	9,738	47							
		4	Strongly agree	14	39	1,929	46	1,227	43	8,853	43							
		Total		36	100	4,203	100	2,856	100	20,537	100							
b.		1	Strongly disagree	4	11	307	7	221	8	1,412	7	2.8	2.9	-.16	2.9	-.12	2.9	-.17
		2	Disagree	8	22	853	20	632	22	4,160	20							
		3	Agree	17	47	2,041	49	1,362	48	10,126	49							
		4	Strongly agree	7	19	997	24	645	23	4,832	24							
		Total		36	100	4,198	100	2,860	100	20,530	100							
c.		1	Strongly disagree	4	11	227	5	191	7	1,141	6	2.8	3.0	-.27	2.9	-.16	3.0	-.24
		2	Disagree	8	22	724	17	567	20	3,718	18							
		3	Agree	16	44	2,079	49	1,397	49	10,240	50							
		4	Strongly agree	8	22	1,173	28	707	25	5,446	27							
		Total		36	100	4,203	100	2,862	100	20,545	100							
16. 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	14	0	17	0	96	0	15.4	16.2	-.09	17.1	-.19	16.9	-.17
		3	1-5 hrs	6	17	599	11	503	9	3,012	9							
		6	6-10 hrs	10	28	1,004	24	818	20	6,311	19							
		13	11-15 hrs	6	17	1,188	21	1,020	19	6,742	20							
		18	16-20 hrs	8	22	1,082	19	1,059	20	6,638	20							
		23	21-25 hrs	7	19	730	13	678	13	4,425	13							
		28	26-30 hrs	4	11	387	7	475	9	2,786	8							
		33	More than 30 hrs	0	0	566	10	635	12	3,757	11							
		Total		36	100	5,703	100	5,334	100	33,767	100							
b.		0	0 hrs	11	31	1,965	34	1,869	35	10,974	33							
		3	1-5 hrs	8	22	1,821	32	1,770	33	10,744	32							
		8	6-10 hrs	10	28	889	16	820	15	5,313	16							
		13	11-15 hrs	2	6	502	9	389	7	2,908	9							
		18	16-20 hrs	2	6	239	4	251	5	1,796	5							
		23	21-25 hrs	1	3	133	2	110	2	977	3							
		28	26-30 hrs	1	3	62	1	45	1	401	1							
		33	More than 30 hrs	1	3	87	2	80	1	605	2							
		Total		36	100	5,698	100	5,334	100	33,718	100							



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

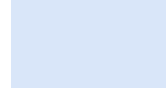
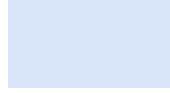
Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	Your seniors compared with														
				F ₉		D ₅		S		C ₁₀		k						
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ			
f.		0	0 hrs	1	3	141	2	115	2	824	2	102	10.9	-.09	10.9	-.09	10.8	-.07
		3	1-5 hrs	8	23	1,514	27	1,413	26	8,894	26							
		8	6-10 hrs	14	40	1,643	29	1,558	29	9,917	29							
		13	11-15 hrs	3	9	1,112	19	1,019	19	6,511	19							
		18	16-20 hrs	6	17	635	11	635	12	3,928	12							
		23	21-25 hrs	2	6	266	5	237	4	1,552	5							
		28	26-30 hrs	1	3	125	2	120	2	686	2							
		33	More than 30 hrs	0	0	274	5	238	4	1,432	4							
			Total	35	100	5,710	100	5,335	100	33,744	100							
g.		0	0 hrs	27	75	4,210	74	3,996	75	24,889	74							
		3	1-5 hrs	2	6	520	9	523	10	3,343	10							
		8	6-10 hrs	3	8	266	5	224	4	1,509	4							
		13	11-15 hrs	2	6	182	3	138	3	922	3							
		18	16-20 hrs	0	0	89	2	79	1	602	2							

Seniors





NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Natural Math Science

Tennessee Technological University

Seniors^a in Natural Math Science

Item wording or description	Variable name ^l	Values ^m	Response options	F _g		D _b		NS 2019 & 2020		Your seniors compared with ^k								
				2020		P _b	C _g	C _b	2019 & 2020	2019 & 2020	P _b	C _g	C _b	NS	2019 & 2020			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
b. Speaking clearly and effectively	pgspeak	1	Very little	4	11	442	8	524	10	2,561	8	2.9	2.9	.01	2.8	.14	2.9	.03
		2	Some	8	22	1,410	25	1,544	29	8,577	25							
		3	Quite a bit	11	31	2,056	36	1,848	35	12,611	37							
		4	Very much	13	36	1,788	31	1,416	27	9,991	30							
		Total	36	100	5,696	100	5,332	100	33,740	100								
c. Thinking critically and analytically	pgthink	1	Very little	0	0	115	2	130	2	611	2	3.5	3.3	.17	3.3	.19	3.4	.16
		2	Some	1	3	638	11	637	12	3,711	11							
		3	Quite a bit	17	47	2,127	37	1,960	37	12,507	37							
		4	Very much	18	50	2,828	50	2,611	49	16,936	50							
		Total	36	100	5,708	100	5,338	100	33,765	100								
d. Analyzing numerical and statistical information	pganalyze	1	Very little	2	6	184	3	228	4	1,112	3	3.2	3.2	.02	3.2	.07	3.2	.02
		2	Some	5	14	935	16	921	17	5,581	17							
		3	Quite a bit	12	33	2,090	37	1,934	36	12,244	36							
		4	Very much	17	47	2,497	44	2,248	42	14,828	44							
		Total	36	100	5,706	100	5,331	100	33,765	100								
e.		1	Very little	1	3	604	11	592	11	3,414	10	2.9	2.8	.07	2.8	.09	2.8	.05
		2	Some	12	33	1,587	28	1,519	28	9,179	27							
		3	Quite a bit	14	39	1,893	33	1,748	33	11,467	34							
		4	Very much	9	25	1,623	28	1,477	28	9,706	29							
		Total	36	100	5,707	100	5,336	100	33,766	100								
f.		1	Very little	3	8	253	4	307	6	1,497	4	2.9	3.0	-.11	2.9	.00	3.0	-.10
		2	Some	8	22	1,231	22	1,295	24	7,316	22							
		3	Quite a bit	13	36	2,246	39	2,111	40	13,641	40							
		4	Very much	12	33	1,975	35	1,626	30	11,310	33							
		Total	36	100	5,705	100	5,339	100	33,764	100								
g.		1	Very little	9	25	742	13	716	13	4,045	12	2.6	2.8	-.20	2.7	-.15	2.8	-.22
		2	Some	7	19	1,501	26	1,509	28	8,932	26							
		3	Quite a bit	11	31	1,894	33	1,725	32	11,430	34							
		4	Very much	9	25	1,569	27	1,383	26	9,333	28							
		Total	36	100	5,706	100	5,333	100	33,740	100								



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Natural Math Science Tennessee Technological University

Natural Math Science

First Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020			
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
24a. How many courses are you taking for credit this current academic term?	coursenum	0	0	0	16	0	12	0	86	0	1	3	132	2	65	1	610	2
		1	0	0	16	0	16	0	107	0	3	9	153	3	115	2	861	3
		2	0	0	49	1	40	1	257	1	2	6	317	6	256	5	1,792	5
		3	0	0	110	2	119	2	1,041	3	3	9	536	9	428	8	3,543	10
		4	16	34	1,116	20	1,144	21	8,966	28	13	37	1,481	26	1,438	27	9,903	29
		5	16	34	2,022	36	1,992	36	11,063	34	11	31	1,599	28	1,565	29	9,101	27
		6	8	17	1,289	23	1,301	24	6,075	19	1	3	755	13	814	15	4,111	12
		7 or more	7	15	935	17	866	16	4,603	14	1	3	714	13	658	12	3,825	11
Total	47	100	5,553	100	5,490	100	32,198	100	35	100	5,687	100	5,339	100	33,746	100		
b. Of these, how many are taught mostly or entirely online (most or all interactions with instructors and students take place online)?	onlinenum20	0	30	64	2,218	55	1,907	68	13,458	69	23	66	2,307	55	1,636	57	12,826	63
		1	9	19	992	25	502	18	3,295	17	7	20	948	23	581	20	3,866	19
		2	5	11	415	10	180	6	1,135	6	3	9	411	10	231	8	1,562	8
		3	1	2	126	3	59	2	455	2	1	3	192	5	125	4	766	4
		4	1	2	95	2	57	2	531	3	0	0	140	3	133	5	640	3
		5	0	0	108	3	58	2	384	2	1	3	77	2	59	2	312	2
		6	0	0	49	1	32	1	174	1	0	0	38	1	39	1	186	1
		7 or more	1	2	38	1	21	1	154	1	0	0	52	1	46	2	253	1
Total	47	100	4,041	100	2,816	100	19,586	100	35	100	4,165	100	2,850	100	20,411	100		
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum20.)	onlinecscol20	No courses taken online	30	64	2,218	55	1,907	68	13,457	69	23	66	2,306	55	1,635	57	12,817	63
		Some courses taken online	15	32	1,559	39	737	26	4,886	25	11	31	1,429	34	833	29	5,614	28
		All courses taken online	2	4	264	7	172	6	1,242	6	1	3	427	10	381	13	1,968	10
		Total	47	100	4,041	100	2,816	100	19,585	100	35	100	4,162	100	2,849	100	20,399	100
25. What have most of your grades been up to now at this institution?	grades	C- or lower	2	4	85	2	80	1	486	2	0	0	35	1	17	0	148	0
		C	0	0	133	2	108	2	687	2	1	3	163	3	131	2	677	2
		C+	0	0	226	4	196	4	1,206	4	2	6	283	5	218	4	1,419	4
		B-	3	6	303	5	320	6	1,858	6	3	8	374	7	317	6	2,039	6
		B	10	21	754	14	830	15	4,669	15	7	19	972	17	895	17	5,623	17
		B+	3	6	876	16	848	15	5,290	16	5	14	949	17	847	16	5,785	17
		A-	6	13	1,150	21	1,138	21	7,096	22	8	22	942	17	1,057	20	6,756	20
		A	23	49	2,007	36	1,962	36	10,830	34	10	28	1,960	35	1,844	35	11,223	33
		Total	47	100	5,534	100	5,482	100	32,122	100	36	100	5,678	100	5,326	100	33,670	100
26. Did you begin college at this institution or elsewhere?	begincol	Started here	39	83	4,958	90	5,044	92	29,768	93	20	56	3,465	61	3,508	66	21,913	65
		Started elsewhere	8	17	547	10	419	8	2,265	7	16	44	2,193	39	1,810	34	11,685	35
		Total	47	100	5,505	100	5,463	100	32,033	100	36	100	5,658	100	5,318	100	33,598	100



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Natural Math Science

Tennessee Technological University

Natural Math Science

First Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	NS 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020					
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%				
27.	attend_voc	Vocational or technical school	2	4	143	3	120	2	759	2	0	0	295	5	258	5	1,665	5
	attend_com	Community or junior college	9	19	568	10	505	9	2,619	8	10	28	1,908	34	1,712	32	11,169	33
	attend_col	4-year college or university other than this one	5	11	468	9	397	7	2,484	8	8	22	1,503	27	1,323	25	7,937	24
	attend_none	None	34	72	4,268	78	4,387	81	25,923	81	17	47	2,610	46	2,667	50	16,543	49
	attend_other	Other	1	2	140	3	139	3	792	2	1	3	168	3	135	3	948	3
28.		Some college but less than a bachelor's degree	5	11	360	7	319	6	1,944	6	3	8	312	5	289	5	1,818	5
		Bachelor's degree (B.A., B.S., etc.)	11	23	849	15	852	16	5,246	16	8	22	1,036	18	958	18	6,547	19
		Master's degree (M.A., M.S., etc.)	10	21	1,113	20	1,275	23	7,571	24	13	36	1,455	26	1,606	30	9,555	28
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	21	45	3,179	58	3,016	55	17,257	54	12	33	2,870	51	2,470	46	15,723	47
		Total	47	100	5,501	100	5,462	100	32,018	100	36	100	5,673	100	5,323	100	33,643	100
29.		Did not finish high school	0	0	213	4	243	4	1,641	5	2	6	188	3	207	4	1,771	5
		High school diploma or G.E.D.	9	19	749	14	705	13	4,653	15	5	14	934	17	759	14	5,140	15
		Attended college, but did not complete degree	10	21	556	10	510	9	2,938	9	3	8	514	9	476	9	2,996	9
		Associate's degree (A.A., A.S., etc.)	5	11	513	9	440	8	2,722	9	2	6	530	9	413	8	2,967	9
		Bachelor's degree (B.A., B.S., etc.)	13	28	1,574	29	1,617	30	9,130	29	13	36	1,639	29	1,625	31	9,802	29
		Master's degree (M.A., M.S., etc.)	8	17	1,296	24	1,270	23	7,290	23	9	25	1,229	22	1,194	22	7,213	21
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	2	4	594	11	666	12	3,557	11	2	6	626	11	634	12	3,669	11
		Total	47	100	5,495	100	5,451	100	31,931	100	36	100	5,660	100	5,308	100	33,558	100
		Not first-generation	23	49	3,464	63	3,553	65	19,977	63	24	67	3,494	62	3,453	65	20,684	62
	First-generation	24	51	2,031	37	1,898	35	11,954	37	12	33	2,166	38	1,855	35	12,874	38	
30.		Total	47	100	5,495	100	5,451	100	31,931	100	36	100	5,660	100	5,308	100	33,558	100
		Man	12	26	1,440	26	1,593	29	9,127	28	13	36	1,720	30	1,766	33	10,630	32
	Woman	33	70	3,955	72	3,766	69	22,307	70	20	56	29						



NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Natural Math Science

Tennessee Technological University

Natural Math Science

First Year Students^a

Seniors^a

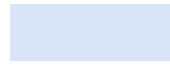
Item wording or description	Variable name	Response options	First Year Students ^a		Seniors ^a		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020						
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%			
32a.		No	46	98	5,336	97	5,265	97	30,490	95	35	97	5,469	97	5,150	97	32,239	96	
		Yes	1	2	164	3	190	3	1,469	5	1	3	181	3	154	3	1,316	4	
		Total	47	100	5,500	100	5,455	100	31,959	100	36	100	5,650	100	5,304	100	33,555	100	
		Africa Sub-Saharan	0	0	13	9	13	8	126	10	0	0	23	14	7	5	113	10	
		Asia	0	0	59	42	78	46	658	51	0	0	71	43	62	47	593	52	
		Canada	0	0	6	4	7	4	52	4	0	0	7	4	8	6	46	4	
		Europe	0	0	25	18	21	13	173	13	0	0	14	8	13	10	104	9	
		Latin America and Caribbean	0	0	24	17	34	20	202	16	1	100	40	24	30	23	196	17	
		Middle East and North Africa	0	0	9	6	10	6	60	5	0	0	10	6	10	8	62	5	
		Oceania	0	0	3	2	4	2	17	1	0	0	0	0	2	2	20	2	
		Unknown region/uncoded	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	
		Total	0	0	139	100	168	100	1,290	100	1	100	165	100	132	100	1,134	100	
33.	re_amind	American Indian or Alaska Native	0	0	118	2	103	2	704	2	0	0	102	2	116	2	684	2	
	re_asian	Asian	3	7	591	11	670	12	4,450	14	0	0	571	10	476	9	4,330	13	
	re_black	Black or African American	4	9	1,095	20	620	11	3,525	11	2	6	883	16	445	8	2,873	9	
	re_latino	Hispanic or Latina/o	4	9	629	11	830	15	4,962	16	0	0	634	11	736	14	4,664	14	
	re_mena	Middle Eastern or N. African	0	0	125	2	112	2	635	2	0	0	104	2	91	2	613	2	
	re_pacific	Native Hawaiian/Other Pac. Islander	1	2	40	1	62	1	374	1	0	0	38	1	51	1	372	1	
	re_white	White	39	85	3,466	63	3,578	66	20,366	64	33	94	3,726	66	3,729	70	22,295	67	
	re_another	Another race or ethnicity	1	2	85	2	65	1	417	1	1	3	92	2	89	2	515	2	
	re_pnr	I prefer not to respond	1	2	98	2	113	2	683	2	1	3	137	2	171	3	996	3	
		American Indian or Alaska Native	0	0	20	0	21	0	144	0	0	0	30	1	24	0	163	0	
		Asian	2	4	432	8	485	9	3,444	11	0	0	442	8	359	7	3,388	10	
		Black or African American	3	7	896	16	482	9	2,654	8	1	3	751	13	345	7	2,258	7	
		Hispanic or Latina/o	1	2	309	6	539	10	3,184	10	0	0	352	6	474	9	3,154	9	
		Middle Eastern or N. African	0	0	80	1	73	1	374	1	0	0	68	1	59	1	381	1	
		Native Hawaiian/Other Pac. Islander	0	0	8	0	11	0	80	0	0	0	7	0	12	0	93	0	
		White	35	76	2,944	54	3,086	57	17,439	55	31	89	3,262	58	3,301	62	19,575	58	
		Another race or ethnicity	0	0	34	1	220.8(c)	89(4124.5(53-5.216 .5(0b)20.8(t0)-4662.4661.6 Te-9an1c6(2)(20.8(ca)2508(n)25163.2(89(4124.811M(ddlTJT*8(1 or											
		Total	47	100	5,500		5,500		31,959	100	36	100	5,650		5,304		33,555		

Natural Math Science

*Item wording
or description*

*Variable
name*

Response options

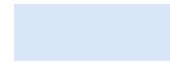


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NSSE 2020 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Natural Math Science Tennessee Technological University

Natural Math Science

First Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020		NS 2019 & 2020					
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%				
39.		Straight (heterosexual)	38	83	4,435	81	4,453	82	26,056	82	27	77	4,549	80	4,271	81	27,160	81
		Bisexual	5	11	455	8	446	8	2,511	8	4	11	455	8	384	7	2,423	7
		Gay	0	0	74	1	90	2	452	1	0	0	109	2	117	2	680	2
		Lesbian	0	0	82	1	67	1	376	1	1	3	67	1	51	1	369	1
		Queer	0	0	49	1	35	1	279	1	1	3	53	1	69	1	413	1
		Questioning or unsure	1	2	82	1	93	2	542	2	0	0	85	2	77	1	441	1
		Another sexual orientation	0	0	100	2	93	2	485	2	0	0	81	1	92	2	511	2
		I prefer not to respond	2	4	212	4	178	3	1,231	4	2	6	253	4	244	5	1,551	5
		Total	46	100	5,489	100	5,455	100	31,932	100	35	100	5,652	100	5,305	100	33,548	100
Institution reported information																		
		Female	34	72	4,132	73	3,906	70	23,168	71	21	58	3,969	69	3,545	66	22,960	67
		Male	13	28	1,508	27	1,649	30	9,478	29	15	42	1,792	31	1,835	34	11,072	33
		Another	0	0	0	0	0	0	1	0	0	0	1	0	1	0	6	0
		Unknown	0	0	3	0	0	0	19	0	0	0	1	0	1	0	16	0
		Total	47	100	5,643	100	5,555	100	32,666	100	36	100	5,763	100	5,382	100	34,054	100
		American Indian or Alaska Native	0	0	20	0	16	0	154	1	0	0	24	0	25	1	178	1
		Asian	2	4	338	7	357	7	2,796	9	1	3	317	6	289	6	2,736	9
		Black or African American	4	9	860	17	460	9	2,510	8	2	6	737	14	354	7	2,171	7
		Hispanic or Latino	0	0	568	11	748	15	4,375	15	0	0	579	11	645	13	3,959	13

Endnotes

- a.
- b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.
- c.
- d.
- e.
- f.
- g.
- h.
- i.
- j.
- k.
- l.
- m.
- n.
- o.

Key to symbols:

Your students' average