

NSSE 2019
(The National Survey of Student Engagement)

The University of Tennessee, Knoxville
Observations

Office of Institutional Research and Assessment
September 2019

The National Survey of Student Engagement (NSSE) is a survey of first year and senior students, focusing on what institutions and their students do to foster engagement on campus. The survey has been administered for twenty years and over 1500 institutions have participated over that time, including 531 in 2019. NSSE reports to an individual institution include selected comparison groups such as Carnegie Class, as well as an average of all participating NSSE institutions for the past two administrations. Our analysis will focus only on our Carnegie Class group (Research I) because those schools share the same institutional mission as the University of Tennessee, Knoxville. Some of our peers participated in the 2019 survey (Auburn University, Clemson University, Louisiana State University Indiana University, and the University of Kentucky).

NSSE compares an individual institution's mean scores with those of the comparison group. When the differences between those mean scores are larger than would be expected by chance, they are noted as statistically significant.¹ When NSSE identifies an institution's score that is statistically significant, an *effect size* is then calculated. According to NSSE, the "effect size indicates practical significance" when statistical significance has been established. An effect size of .2 is considered small, .5 is moderate and .8 is large. Only seven of UTK's items had an effect size of .2 or above, the rest were well below, which means that the practical significance of the differences is small.

NSSE provides institutions with a lot of feedback. Currently there are 86 items along with over 19 demographic questions. (The instrument has gone through one major revision in 2013 along with a few minor changes in its 20 years.) In order to facilitate an easier understanding of all that data, NSSE developed "Benchmarks" in 2001, which transitioned into "Engagement Indicators" with the revised 2013 survey. Benchmarks gave institutions an easier way to report data to interested parties on their campuses, but as NSSE's understanding of student engagement grew, the researchers behind the survey determined that categorizing the data into Engagement Indicators was more useful. Engagement Indicators may be an improvement over Benchmarks, but institutions have found it difficult to compare data from prior to 2013 with later data. And since the University of Tennessee, Knoxville has participated in NSSE since 2000, it is helpful to have a way to use all of the data collected.

The thing that has remained constant with NSSE is that the survey is designed to look at what students do as well as what institutions do to create an environment where student engagement occurs. This study takes the questions from NSSE and separates them into three categories: 1) items looking at what students do when it comes to ideal engagement practices, 2) items examining what institutions do to promote ideal engagement practices, and 3) items that look at practices that require involvement on the part of both the student and the institution. This method helps condense the 86 items into three categories and narrows the focus on where issues with student engagement occur and which part of the equation contributes to good (or bad) engagement practices.

A note on how NSSE is administered

NSSE administers the survey based on a population file submitted by the institution, and offers to send it to either a sample of students or to all eligible students. For several years UTK administered NSSE along with other surveys such as the THEC Enrolled Student Survey and the Noel Levitz Student Satisfaction Inventory, so a sample was used to avoid asking students to complete more than one survey. Better spacing of surveys means that a census administration of all first year and senior students is now

¹ NSSE calculates statistical significance at three levels ($p < .05$, $p < .01$ and $p < .001$). For the purposes of this review, any item where the mean differences were determined to be statistically significant was included, regardless of the level of significance.

possible. The response rate for the census administration has been low (10% for both first year students as well as seniors). However, the frequencies and means have remained close to those for years when a sample was used and the response rate was higher. The demographic breakdown of NSSE respondents for the 2019 survey is below:

	First-year		Senior	
	Respondent %	Population %	Respondent %	Population %
Female	66	52	62	50
Male	34	48	38	50
<i>Race/ethnicity</i>				
Asian	3	4	2	4
Black or African American	6	6	4	5
Hispanic or Latino	6	5	3	4
White	77	77	81	79
Two or more races/ethnicities	4	4	3	3
Unknown	3	3	6	5

First Year Students:

What Students Do:

There are thirty seven items looking at effective engagement practices of students, and first year students compare favorably to peers at similar schools. Below are items where there was a statistically significant difference between first year students at UTK and those at other participating Research I institutions:

First year students engage in the following behaviors at **higher rates** than peers at similar institutions:

- Asking another student to help you understand course material
- Explaining course material to one or more students
- Working with other students on course projects or assignments
- Giving a course presentation
- Combining ideas from different courses when completing assignments
- Having discussions with people from an economic background other than your own
- Having discussions with people with a political views other than your own
- Spending more time preparing for class

First year students rate the following items **lower than** their peers at similar institutions:

- Preparing two or more drafts of a paper or assignment before turning it in
- Time spent preparing for class on assigned reading
- Working for pay off campus (including the estimated number of hours working for pay)
- Doing community service or volunteer work
- Providing care for dependents (children, parents, etc.)
- Commuting to campus (driving, walking, etc.)

What Institutions Do:

There are twenty-three items on the NSSE that look at specifically what the institution does to encourage student engagement. First year students are also in line with their peers when it comes to their opinion of what the institution provides to help foster engagement. The gap between UTK and peers was noted as statistically significant for the following items:

Compared to peers at similar institutions, first year students rate UTK as an institution **higher** in the following areas:

- Emphasis from the institution on spending significant amounts of time studying and on academic work
- Emphasis from the institution on attending campus activities and events (performing arts, athletic events, etc.)

And **lower** in the following areas:

- Assigned papers of 11 pages or more
- Emphasis from the institution on encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)
- Emphasis from the institution on providing support for students' overall well-being (recreation, health care, counseling, etc.)
- Emphasis from the institution on helping students manage non-academic responsibilities (work, family, etc.)²

What Students and the Institution Do:

There are thirty items that ask about interactions between students and the institution. These interactions refer to opportunities or experiences offered by the institution that a student can participate in.

First year students at UTK rate the following student/institution interactions **higher** than students at similar institutions:

- Participating in a learning community or some other formal program where groups of students take two or more classes together
- The quality of their interactions with academic advisors.³

First year students at UTK rate the following student/institution interactions **lower** than students at similar institutions:

- Experience at the institution contributing to your knowledge, skills and personal development in understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)
- Experience at the institution contributing to your knowledge, skills and personal development in being an informed and active citizen.

The University of Tennessee, Knoxville is very similar to other Carnegie I institutions in terms of student engagement and first year students. Our students engage in many of the same behaviors as students at

² This is interesting because our students are less likely than students at similar institutions to work off campus and report less family responsibilities than students at similar institutions.

³ This is an improvement, it was rated below other Carnegie I institutions for many years.

other institutions, the institutional practices and offerings do not differ from similar institutions, and the student/institution interaction does not fall outside the range of what other NSSE participants are doing. When differences cannot be attributed simply to chance and are deemed statistically significant, the calculated effect size shows that the practical significance of those differences is small. Administrators and faculty may want to take a look at some areas, but *there do not appear to be major areas of concern*.

Seniors

Before looking at NSSE data for senior students, it is important to emphasize something that is counterintuitive. *Seniors will be less engaged than first year students*. While they may have been exposed to many more practices and opportunities that would encourage student engagement, they are at the end of their undergraduate academic careers. Their group of friends is set, they are enrolled in the most specialized courses for their majors and are looking ahead to post-college life rather than what happened in the previous four or five years. NSSE does not measure the process of student engagement from freshman to senior. Comparing senior responses to those of first year students is not good practice.

What Students Do:

Senior students engage in the following behaviors **more** than students at similar institutions:

- Asking another student to help you understand course material
- Given a course presentation
- Combined ideas from different courses when completing assignments
- Tried to better understand someone else's views by imagining how an issue looks from their perspective
- Connected ideas from your courses to your prior experiences and knowledge
- Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)
- Evaluated what others have concluded from numerical information
- Identifying key information from reading assignments
- Having discussions with people from an economic background other than your own
- Having discussions with people with religious beliefs other than your own
- Having discussions with people with political views other than your own

Senior students engage in the following items **less frequently** than their peers at similar institutions:

- Working for pay off campus (including the estimated number of hours working for pay)
- Doing community service or volunteer work
- Providing care for dependents (children, parents, etc.)
- Commuting to campus (driving, walking, etc.)

As you may notice, this list is very similar to the First Year version. And while it is not advisable to compare First Year and Senior responses within the same survey, it would be beneficial to look at university initiatives that may have led to the behaviors reported by both groups.

What Institutions Do:

Compared to peers at similar institutions, senior students rate UTK's efforts as an institution **above** similar schools in the following areas:

- Instructors using examples or illustrations to explain difficult points
- Emphasis from the institution on attending campus activities and events (performing arts, athletic events, etc.)

Senior students rate UTK's efforts as an institution **below** similar schools in the following areas:

- Assigned papers between 6 and 10 pages
- Assigned papers of 11 pages or more
- Estimated number of assigned pages of student writing
- Emphasis from the institution on providing support for students' overall well-being (recreation, health care, counseling, etc.)
- Emphasis from the institution on helping students manage non-academic responsibilities (work, family, etc.)⁴

What Students and the Institution Do:

Seniors at UTK rate the following student/institution interactions **higher** than students at similar institutions:

- Talking about career plans with a faculty member
- Working with a faculty member on activities other than coursework (committees, student groups, etc.)
- Discussed course topics, ideas, or concepts with a faculty member outside of class
- Discussed your academic performance with a faculty member
- Participate in an internship, co-op, field experience, student teaching, or clinical placement
- Work with a faculty member on a research project
- Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)
- Quality of interaction with student services staff (career services, student activities, housing, etc.)
- Quality of interaction with administrative staff and offices (registrar, financial aid, etc.)
- Experience at the institution contributing to writing clearly and effectively
- Experience at the institution contributing to speaking clearly and effectively
- Experience at the institution contributing to thinking critically and effectively

Conclusion

It is important to note again that all of the effect size calculations note that the practical significance of these differences is small. But there are some interesting observations. Most significantly, for many years seniors rated the cluster of variables regarding how their time at the University of Tennessee, Knoxville "contributed to your knowledge, skills and personal development" below students at other Carnegie I institutions. *That has changed to the point that many of these variables are rated above students at similar schools.* This is a positive development that deserves a deeper look.

⁴ As with First Year Students, this is interesting because our students are less likely than students at similar institutions to work off campus and report less family responsibilities than students at similar institutions.

Given the response rate issues, NSSE can be used to screen developments related to engagement and this seems like an optimal time to dig deeper in order to document what happened to affect the change so that the positive momentum can continue. The administration of the Beginning College Survey of Student Engagement (BCSSE) that was given to First Year students the summer before they came to UTK will provide helpful information about their expectations for their freshman year. Another resource would be an analysis of student comments to a question asking them to describe the most significant learning experience they had at this institution. Seniors were also asked to provide feedback on what the institution could have done better to prepare students for their career or further education. The 2019 administration of NSSE is the first time more focused open ended questions were asked, which resulted in more student comments than in previous versions of the survey. This qualitative information may provide additional valuable insight into the quantitative data.

Appendix A

“What Students Do”

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Students Do

		First-Year Students								Seniors								
		Frequency Distributions ^a				Statistical Comparisons ^b				Frequency Distributions ^a				Statistical Comparisons ^b				
Item wording or description	Variable name ^c	Values ^d	Response options	UT Knoxville		Carnegie Class		UT Knoxville		Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	
				Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean	Count	%
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	25 249 207 121	4 42 34 20	1,707 15,997 14,127 9,091	5 40 34 21	2.7	2.7	-.03	8 148 149 167	2 33 32 34	1,739 15,824 16,154 17,596	4 31 31 34	3.0	3.0	.03	
		Total		602	100	40,922	100				472	100	51,313	100				
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1 2 3 4	Never Sometimes Often Very often	158 204 142 84	28 34 24 14	8,069 14,888 11,236 6,509	21 37 27 15	2.2	2.4 **	-.13	131 167 97 73	29 36 21 15	12,341 18,762 12,292 7,649	25 37 24 15	2.2	2.3	-.08	
		Total		588	100	40,702	100				468	100	51,044	100				
c. 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	39 96 343 113	6 16 59 19	2,499 6,410 23,127 8,654	6 16 56 21	2.9	2.9	-.01	41 75 272 80	8 16 58 17	4,090 9,120 27,318 10,508	8 18 53 21	2.8	2.9	-.02	
		Total		591	100	40,690	100				468	100	51,036	100				
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1 2 3 4	Never Sometimes Often Very often	233 229 86 43	41 38 14 7	15,257 15,913 6,097 3,305	39 39 14 8	1.9	1.9	-.01	188 188 57 38	42 38 12 8	21,737 19,410 6,270 3,539	43 38 12 7	1.9	1.8	.04	
		Total		591	100	40,572	100				471	100	50,956	100				
e. Asked another student to help you understand course material	CLaskhelp	1 2 3 4	Never Sometimes Often Very often	30 196 194 168	6 33 33 28	2,607 13,714 15,381 8,824	7 35 37 21	2.8	2.7 **	.13	42 184 144 99	9 39 31 21	5,889 19,966 16,103 8,952	12 40 31 17	2.6	2.5 *	.12	
		Total		588	100	40,526	100				469	100	50,910	100				
f. Explained course material to one or more students	CLexplain	1 2	Never Sometimes	12 172	2 29	1,335 13,366	4 33				12 136	2 29	2,629 16,448	5 33				

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		Frequency Distributions ^a				Statistical Comparisons ^b				Frequency Distributions ^a				Statistical Comparisons ^b			
		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
		3	Often	248	43	17,053	42	2.9	2.8 ***	.16	207	45	20,015	39	2.9	2.8 **	.12
		4	Very often	150	26	8,690	21				113	24	11,758	23			
			Total	582	100	40,444	100				468	100	50,850	100			
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	64	11	4,566	12	2.7	2.7	.07	50	11	7,708	16	2.6	2.6	.02
		2	Sometimes	175	31	12,936	32				186	40	16,793	34			
		3	Often	191	33	13,421	33				138	30	15,067	29			
		4	Very often	146	25	9,311	22				93	20	11,048	22			
			Total	576	100	40,234	100				467	100	50,616	100			
h. Worked with other students on course projects or assignments	CLproject	1	Never	21	4	2,402	7	2.9	2.7 ***	.18	26	5	3,274	7	2.9	2.9	.01
		2	Sometimes	181	31	14,208	36				129	27	13,394	27			
		3	Often	230	40	15,102	37				171	38	18,206	36			
		4	Very often	141	25	8,326	20				139	29	15,610	31			
			Total	573	100	40,038	100				465	100	50,484	100			
i. Given a course presentation	present	1	Never	94	16	8,557	22	2.4	2.2 ***	.19	33	7	5,461	11	2.8	2.7 **	.12
		2	Sometimes	240	42	18,078	45				161	34	16,688	34			
		3	Often	164	29	9,271	23				138	30	16,203	32			
		4	Very often	72	13	4,066	10				132	28	12,109	23			
			Total	570	100	39,972	100				464	100	50,461	100			

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		First-Year Students								Seniors							
		Frequency Distributions ^a				Statistical Comparisons ^b				Frequency Distributions ^a				Statistical Comparisons ^b			
		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
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	30	5	2,994	8	2.7	2.6	**.12	7	1	1,780	4	3.0	2.9	**.12
		2	Sometimes	213	37	15,451	40				119	26	13,305	27			
		3	Often	224	41	15,087	37				190	42	21,161	42			
		4	Very often	92	17	5,942	15				141	31	13,811	27			
		Total		559	100	39,474	100				457	100	50,057	100			
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	43	8	3,456	10	2.6	2.6	.01	33	8	3,956	9	2.8	2.7	.05
		2	Sometimes	230	43	15,064	39				147	33	16,225	33			
		3	Often	187	33	14,372	35				157	33	17,952	35			
		4	Very often	95	16	6,303	15				123	25	11,716	23			
		Total		555	100	39,195	100				460	100	49,849	100			
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIDiverse	1	Never	76	15	3,878	12	2.5	2.5	-.08	72	18	7,001	16	2.5	2.5	-.02
		2	Sometimes	206	38	14,466	38				157	35	17,351	36			
		3	Often	177	32	13,754	34				125	27	15,216	30			
		4	Very often	88	15	6,759	16				100	21	9,954	19			
		Total		547	100	38,857	100				454	100	49,522	100			
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	34	7	1,669	5	2.7	2.8	-.06	27	7	2,514	6	2.9	2.8	.09
		2	Sometimes	185	34	12,194	32				119	25	14,851	30			
		3	Often	227	41	17,547	45				189	42	21,555	43			
		4	Very often	96	18	7,074	18				117	26	10,285	21			
		Total		542	100	38,484	100				452	100	49,205	100			
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	19	4	961	3	2.9	2.9	.01	20	5	1,475	3	3.0	2.9	*.11
		2	Sometimes	139	26	9,981	27				82	18	11,856	25			
		3	Often	241	46	17,858	46				199	44	22,347	45			
		4	Very often	130	25	9,185	24				146	33	13,062	27			
		Total		529	100	37,985	100				447	100	48,740	100			

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		First-Year Students						Seniors									
		Frequency Distributions ^a				Statistical Comparisons ^b		Frequency Distributions ^a				Statistical Comparisons ^b					
		UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e			
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
f. Learned something that changed the way you understand an issue or concept	RInewview	1	Never	19	4	928	3	2.8	2.8	-.01	12	3	1,047	3	3.0	2.9	.08
		2	Sometimes	157	30	11,197	31				110	25	12,820	27			
		3	Often	228	45	17,314	45				173	40	21,895	45			
		4	Very often	108	21	8,122	21				143	31	12,484	26			
		Total		512	100	37,561	100				438	100	48,246	100			
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	6	1	391	1	3.1	3.0	.08	5	1	518	1	3.2	3.2 *	.11
		2	Sometimes	95	19	7,484	21				63	15	7,618	17			
		3	Often	247	49	19,045	51				177	41	22,829	47			
		4	Very often	152	30	10,257	27				185	42	16,931	35			
		Total		500	100	37,177	100				430	100	47,896	100			
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	37	8	3,420	9	2.7	2.6	.07	32	7	4,514	10	2.8	2.7 **	.13
		2	Sometimes	160	35	12,648	36				123	29	15,091	33			
		3	Often	172	38	13,331	38				144	38	16,658	37			
		4	Very often	79	19	5,499	16				97	25	9,126	21			
		Total		448	100	34,898	100				396	100	45,389	100			
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	99	22	6,954	20	2.3	2.3	-.02	64	16	8,226	18	2.5	2.4	.09
		2	Sometimes	172	39	13,772	39				150	37	16,588	36			
		3	Often	127	28	10,038	29				105	28	13,358	29			
		4	Very often	51	12	3,949	12				75	20	7,016	16			
		Total		449	100	34,713	100				394	100	45,188	100			
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	75	16	5,639	16	2.4	2.4	.03	46	11	6,698	15	2.7	2.5 ***	.20
		2	Sometimes	181	41	14,529	42				148	37	17,046	38			
		3	Often	137	30	10,877	31				110	29	14,778	33			
		4	Very often	53	12	3,562	10				88	23	6,524	15			
		Total		446	100	34,607	100				392	100	45,046	100			

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				First-Year Students						Seniors							
				Frequency Distributions ^a				Statistical Comparisons ^b		Frequency Distributions ^a				Statistical Comparisons ^b			
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class			
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
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	11	3	1,011	3	3.1	3.1	.00	9	2	1,741	4	3.2	3.1	.05
		2	Sometimes	109	25	7,548	23				79	20	9,473	21			
		3	Often	131	31	11,412	33				135	35	14,041	31			
		4	Very often	190	42	14,468	41				168	43	19,587	44			
		Total		441	100	34,439	100				391	100	44,842	100			
b. People from an economic background other than your own	DDeconomic	1	Never	12	3	1,056	4	3.2	3.1 **	.15	2	0	1,608	4	3.2	3.1 ***	.14
		2	Sometimes	82	18	7,333	22				74	19	9,316	21			
		3	Often	147	34	12,735	37				148	38	16,062	35			
		4	Very often	201	45	13,262	38				165	43	17,787	40			
		Total		442	100	34,386	100				389	100	44,773	100			
c. People with religious beliefs other than your own	DDreligion	1	Never	16	4	1,436	5	3.1	3.0	.09	11	3	2,118	5	3.2	3.1 *	.11
		2	Sometimes	102	23	8,075	24				81	20	10,104	23			
		3	Often	132	31	11,602	33				131	34	14,973	33			
		4	Very often	191	42	13,280	38				167	43	17,585	39			
		Total		441	100	34,393	100				390	100	44,780	100			
d. People with political views other than your own	DDpolitical	1	Never	6	1	1,841	5	3.2	2.9 ***	.29	7	2	2,591	6	3.2	3.0 ***	.29
		2	Sometimes	100	22	9,851	28				73	19	12,632	28			
		3	Often	133	31	11,133	32				134	34	14,074	31			
		4	Very often	201	46	11,563	34				176	45	15,471	35			
		Total		440	100	34,388	100				390	100	44,768	100			
9. During the current school year, about how often have you done the following?																	
a. Identified key information from reading assignments	LSreading	1	Never	16	4	621	2	3.0	3.0	-.02	11	3	1,253	3	3.1	3.0 *	.13
		2	Sometimes	93	23	7,749	24				67	18	9,380	22			
		3	Often	202	46	16,550	48				154	39	19,567	44			
		4	Very often	120	27	9,276	26				154	39	14,355	32			
		Total		431	100	34,196	100				386	100	44,555	100			

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Students Do

		First-Year Students								Seniors							
		Frequency Distributions ^a				Statistical Comparisons ^b				Frequency Distributions ^a				Statistical Comparisons ^b			
		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
b. Reviewed your notes after class	LNotes	1	Never	24	6	1,606	5	2.9	2.9	.01	26	7	3,668	8	2.8	2.8	.09
		2	Sometimes	128	31	10,504	32				112	30	14,687	33			
		3	Often	145	33	12,301	36				132	35	14,575	33			
		4	Very often	135	30	9,759	27				115	28	11,593	26			
			Total	432	100	34,170	100				385	100	44,523	100			
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	25	6	2,121	7	2.8	2.8	.00	27	7	3,454	8	2.8	2.8	.07
		2	Sometimes	143	34	10,803	32				110	30	14,286	32			
		3	Often	160	37	13,269	39				147	38	16,166	36			
		4	Very often	101	23	7,946	22				101	25	10,576	24			
			Total	429	100	34,139	100				385	100	44,482	100			
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 <i>(Recoded version of tmprep created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	0	0	117	0	16.9	15.3 ***	.20	0	0	173	0	15.6	15.1	.05
		3	1-5 hrs	32	8	3,086	10				39	11	5,666	13			
		8	6-10 hrs	61	15	6,910	21				84	22	9,833	23			
		13	11-15 hrs	102	25	7,619	23				81	21	8,821	20			
		18	16-20 hrs	77	20	6,884	21				72	19	7,857	18			
		23	21-25 hrs	67	16	4,207	12				42	11	4,708	11			
		28	26-30 hrs	30	7	2,071	6				30	9	2,647	6			
		33	More than 30 hrs	35	9	2,046	6				26	7	3,635	9			
			Total	404	100	32,940	100	374	100	43,340	100						
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs <i>(Recoded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	111	28	8,163	26	5.6	6.2	-.08	125	33	14,732	35	5.1	5.5	-.07
		3	1-5 hrs	138	33	11,470	34				132	35	13,480	30			
		8	6-10 hrs	81	20	6,419	19				63	18	6,870	16			
		13	11-15 hrs	49	12	3,375	10				24	7	3,858	9			
		18	16-20 hrs	18	5	1,824	6				16	4	2,200	5			
		23	21-25 hrs	5	1	948	3				8	2	1,121	3			
		28	26-30 hrs	1	0	276	1				6	1	386	1			
		33	More than 30 hrs	2	1	395	1				1	0	620	2			
			Total	405	100	32,870	100	375	100	43,267	100						

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Students Do

				First-Year Students					Seniors												
				Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b						
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e		
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean			Count	%	Count	%	Mean	Mean				
c. Working for pay on campus	tmworkonhrs	0	0 hrs	321	80	25,613	79	2.3	2.7	-.07	244	66	28,922	68	4.3	4.5	-.02				
		(Recoded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	24	5	1,053				3	21	6	1,797				4			
			8	6-10 hrs	21	6	2,307				6	40	11	3,653				8			
			13	11-15 hrs	17	5	1,937				6	25	6	3,571				8			
			18	16-20 hrs	12	3	1,221				4	24	6	3,239				7			
			23	21-25 hrs	4	1	518				2	8	2	1,084				2			
			28	26-30 hrs	2	1	106				0	2	1	401				1			
			33	More than 30 hrs	2	0	156				1	9	2	626				2			
				Total	403	100	32,911				100	373	100	43,293				100			
	d. Working for pay off campus	tmworkoffhrs	0	0 hrs	311	78	24,488				74	3.1	3.9 *	-.10				180	49	20,587	48
		(Recoded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	13	3	1,463	4	18	5	2,336				5						
			8	6-10 hrs	23	5	1,657	5	34	9	2,939				6						
			13	11-15 hrs	23	6	1,643	5	28	7	3,205				7						
			18	16-20 hrs	17	4	1,581	5	50	14	4,021				9						
			23	21-25 hrs	12	3	1,034	3	25	7	2,954				7						
			28	26-30 hrs	3	1	472	2	17	5	1,939				4						
			33	More than 30 hrs	2	1	572	2	22	6	5,336				13						
				Total	404	100	32,910	100	374	100	43,317				100						
Estimated number of hours working for pay		tmworkhrs		(Continuous variable created by NSSE)					5.3	6.5 **	-.12								13.2	14.8 **	-.12

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Students Do

				First-Year Students				Seniors									
				Frequency Distributions ^a				Statistical Comparisons ^b									
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		Effect size ^e					
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	225	58	18,517	57	1.9	2.5 ***	-0.13	181	51	21,514	51	2.2	3.0 ***	-0.16
	(Recoded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	151	35	10,405	31				162	42	15,054	34			
	8	6-10 hrs	18	5	2,004	6	19				5	3,439	8				
	13	11-15 hrs	6	1	951	3	6				1	1,480	3				
	18	16-20 hrs	1	0	525	2	1				0	848	2				
	23	21-25 hrs	1	0	321	1	3				1	428	1				
	28	26-30 hrs	3	1	67	0	0				0	172	0				
	33	More than 30 hrs	0	0	111	0	1				0	346	1				
Total				405	100	32,901	100				373	100	43,281	100			
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	5	1	429	1	12.9	13.3	-0.04	14	4	1,028	3	11.9	11.7	.02
	(Recoded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	94	21	5,511	16				73	18	9,981	23			
	8	6-10 hrs	101	25	8,906	26	122				33	12,218	27				
	13	11-15 hrs	81	20	7,422	22	74				20	8,703	20				
	18	16-20 hrs	54	15	5,234	16	43				11	5,679	13				
	23	21-25 hrs	23	6	2,353	7	19				5	2,420	6				
	28	26-30 hrs	8	2	967	3	8				2	1,075	3				
	33	More than 30 hrs	37	10	2,083	7	21				7	2,171	5				
Total				403	100	32,905	100				374	100	43,275	100			
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	364	90	27,173	82	1.0	1.8 ***	-0.16	297	81	31,954	73	2.8	4.1 **	-0.15
	(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	16	4	2,581	8				22	6	3,829	9			
	8	6-10 hrs	11	3	1,082	3	22				6	1,756	4				
	13	11-15 hrs	6	2	780	2	2				1	1,135	3				
	18	16-20 hrs	2	1	532	2	5				1	942	2				
	23	21-25 hrs	1	0	304	1	4				1	564	1				
	28	26-30 hrs	0	0	77	0	2				0	294	1				
	33	More than 30 hrs	3	1	301	1	16				4	2,747	7				
Total				403	100	32,830	100				370	100	43,221	100			

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Students Do

First-Year Students

Seniors

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b		
				UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e
				Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean	
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	180	44	12,230	36	3.5	4.3 **	-.14	33	9	6,479	15	4.5	5.4 ***	-.14
	(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	147	36	12,903	39				253	68	23,871	54			
	8	6-10 hrs	51	13	4,232	14	61				16	7,855	19				
	13	11-15 hrs	12	3	1,760	6	12				3	2,663	6				
	18	16-20 hrs	4	1	803	3	5				1	1,039	3				
	23	21-25 hrs	3	1	417	1	5				1	486	1				
	28	26-30 hrs	2	1	158	1	0				0	209	1				
	33	More than 30 hrs	5	1	400	1	4				1	687	2				
Total		404	100	32,903	100	373	100	43,289	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	86	22	4,816	16	2.3	2.6 ***	-.24	64	18	7,877	19	2.6	2.6	-.07	
	2	Some	160	41	12,013	37				139	38	13,252	31				
	3	About half	103	25	8,796	26				80	21	10,516	24				
	4	Most	46	10	5,328	15				63	16	8,098	18				
	5	Almost all	9	2	1,888	5				28	7	3,498	8				
	Total		404	100	32,841	100				374	100	43,241	100				
tmreadinghrs					5.8			6.3 *			-.09						
(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)																	

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Students Do

				First-Year Students				Seniors									
				Frequency Distributions ^a		Statistical Comparisons ^b		Frequency Distributions ^a		Statistical Comparisons ^b							
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class							
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
	tmreadinghrscol	1	0 hrs	0	0	115	0				0	0	170	0			
	<i>(Collapsed version of tmreadinghrs created by NSSE.)</i>	2	More than zero, up to 5 hrs	220	56	16,693	53				189	52	22,312	53			
		3	More than 5, up to 10 hrs	122	30	9,899	29				124	33	12,111	28			
		4	More than 10, up to 15 hrs	33	8	3,193	9				35	9	4,042	9			
		5	More than 15, up to 20 hrs	16	3	1,513	4				10	2	2,292	5			
		6	More than 20, up to 25 hrs	10	2	930	3				13	3	1,482	3			
		7	More than 25 hrs	1	0	340	1				2	1	661	2			
			Total		402	100	32,683	100				373	100	43,070	100		

Appendix B

“What Institutions Do”

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Institutions Do

		First-Year Students								Seniors							
		Frequency Distributions ^a				Statistical Comparisons ^b				Frequency Distributions ^a				Statistical Comparisons ^b			
		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
4. During the current school year, how much has your coursework emphasized the following?																	
a. Memorizing course material	memorize	1	Very little	16	3	1,093	3	3.0	2.9	.08	26	6	3,356	7	2.8	2.8	-.01
		2	Some	96	20	8,905	25				127	31	14,058	30			
		3	Quite a bit	239	47	16,784	46				185	44	18,830	40			
		4	Very much	143	29	9,676	26				85	20	10,958	23			
		Total		494	100	36,458	100				423	100	47,202	100			
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	17	4	1,010	3	3.0	3.0	.07	8	2	1,366	3	3.1	3.1	.06
		2	Some	110	23	8,259	23				81	20	9,351	20			
		3	Quite a bit	201	41	17,352	47				184	44	21,272	45			
		4	Very much	161	32	9,687	26				148	34	15,072	32			
		Total		489	100	36,308	100				421	100	47,061	100			
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	15	3	1,180	4	3.0	2.9	.05	16	4	1,670	4	3.0	3.0	.02
		2	Some	127	26	9,141	26				87	21	10,560	23			
		3	Quite a bit	201	42	16,400	45				184	45	20,095	43			
		4	Very much	138	29	9,338	25				132	31	14,417	31			
		Total		481	100	36,059	100				419	100	46,742	100			
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	26	6	1,555	5	2.8	2.8	-.07	28	7	3,072	7	2.9	2.8	.03
		2	Some	141	30	9,711	28				100	25	12,276	27			
		3	Quite a bit	200	43	16,054	44				177	42	19,062	40			
		4	Very much	109	21	8,572	23				112	26	12,144	26			
		Total		476	100	35,892	100				417	100	46,554	100			
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	30	6	1,483	5	2.8	2.8	-.01	20	5	2,292	5	2.9	2.9	.04
		2	Some	122	27	9,724	28				105	26	12,078	27			
		3	Quite a bit	206	42	16,144	45				167	40	20,036	42			
		4	Very much	117	24	8,412	22				122	28	11,959	26			
		Total		475	100	35,763	100				414	100	46,365	100			

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Institutions Do

First-Year Students

Seniors

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b		
				UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e
				Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean	
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	17	3	601	22	3.0	3.0	-.09	6	1	977	2	3.1	3.1	.05
		2	Some	106	23	7,405	22				74	19	8,409	19			
		3	Quite a bit	228	47	17,011	47				179	44	21,243	45			
		4	Very much	116	26	10,532	29				147	36	15,455	34			
		Total		467	100	35,549	100				406	100	46,084	100			
b. Taught course sessions in an organized way	ETorganize	1	Very little	18	3	1,042	3	3.0	3.0	.07	12	3	1,567	4	3.1	3.0	.08
		2	Some	94	19	7,926	23				72	18	9,259	20			
		3	Quite a bit	224	48	17,016	47				185	47	21,233	46			
		4	Very much	128	30	9,508	27				135	33	13,957	31			
		Total		464	100	35,492	100				404	100	46,016	100			
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	24	4	1,014	3	3.0	3.0	-.01	15	4	1,418	3	3.2	3.1 **	.14
		2	Some	100	21	7,879	23				67	17	9,200	20			
		3	Quite a bit	208	45	16,054	45				148	36	19,730	42			
		4	Very much	133	30	10,444	29				173	43	15,598	34			
		Total		465	100	35,391	100				403	100	45,946	100			
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	29	6	2,994	9	2.7	2.7	.03	54	14	5,470	13	2.7	2.6	.07
		2	Some	159	34	11,146	32				119	29	14,749	32			
		3	Quite a bit	183	38	13,231	37				121	30	15,614	33			
		4	Very much	96	21	7,983	22				109	27	10,082	22			
		Total		467	100	35,354	100				403	100	45,915	100			
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	52	11	3,429	10	2.6	2.6	-.02	39	10	4,076	9	2.7	2.7	-.02
		2	Some	169	36	12,484	36				133	34	14,785	32			
		3	Quite a bit	158	35	13,048	36				140	34	17,425	37			
		4	Very much	82	18	6,264	18				87	22	9,462	21			
		Total		461	100	35,225	100				399	100	45,748	100			

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Institutions Do

First-Year Students

Seniors

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b		
				UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e
				Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean	
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	20	4	2,016	6	6.7	6.4	.06	27	7	3,062	7	7.5	7.2	.05
	(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	72	16	6,851	20				70	18	8,451	19			
		4	3-5	168	39	11,551	33				91	23	13,022	29			
		8	6-10	97	22	7,809	22				115	30	9,624	21			
		13	11-15	45	10	3,502	10				35	9	4,853	10			
		18	16-20	23	5	1,390	4				24	6	2,455	5			
		23	More than 20	18	4	1,448	4				30	7	3,449	8			
			Total	443	100	34,567	100	392	100	44,916	100						
b. Between 6 and 10 pages	wrmednum	0	None	130	29	11,706	35	2.3	2.3	-.01	108	29	11,317	26	2.8	3.3 **	-.12
	(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	186	43	12,877	36				132	33	15,298	34			
		4	3-5	79	18	6,386	18				99	26	10,432	23			
		8	6-10	36	8	2,313	7				37	10	4,859	11			
		13	11-15	4	1	837	2				6	2	1,665	4			
		18	16-20	2	0	178	0				2	1	561	1			
		23	More than 20	1	0	174	1				3	1	643	1			
			Total	438	100	34,471	100	387	100	44,775	100						
c. 11 pages or more	wrlongnum	0	None	349	79	26,084	75	.6	.9 ***	-.14	200	51	21,729	49	1.6	1.9 *	-.09
	(Recorded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	67	16	5,711	17				125	31	14,936	33			
		4	3-5	15	4	1,305	4				44	12	4,661	10			
		8	6-10	4	1	646	2				15	4	1,829	4			
		13	11-15	3	1	505	2				1	0	920	2			
		18	16-20	1	0	96	0				2	1	288	1			
		23	More than 20	0	0	147	0				3	1	511	1			
			Total	439	100	34,494	100	390	100	44,874	100						
Estimated number of assigned pages of student writing.	wrpages							46.6	51.3	-.07					68.5	76.3 *	-.08
	(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)																

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Institutions Do

				First-Year Students				Seniors															
				Frequency Distributions ^a				Statistical Comparisons ^b															
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class		Effect size ^e											
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e						
14. How much does your institution emphasize the following?																							
a. Spending significant amounts of time studying and on academic work	empstudy	1 2 3 4	Very little Some Quite a bit Very much	5 58 209 138	1 14 51 34	489 6,090 16,311 10,483	2 19 49 31	3.2	3.1 *	.11	7 79 161 129	2 21 44 34	849 8,378 20,260 14,320	2 19 46 32	3.1	3.1	.00						
Total				410	100	33,373	100				376	100	43,807	100									
b. Providing support to help students succeed academically	SEacademic	1 2 3 4	Very little Some Quite a bit Very much	14 72 185 137	3 18 45 34	905 6,892 14,927 10,557	3 21 44 31				3.1	3.0	.07	16 91 181 89				4 25 48 23	2,297 11,507 19,087 10,818	6 26 43 25	2.9	2.9	.03
Total				408	100	33,281	100							377				100	43,709	100			
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1 2 3 4	Very little Some Quite a bit Very much	19 66 150 174	5 17 37 42	1,449 6,064 13,472 12,279	4 19 40 37							3.2				3.1	.08	35 92 160 88			
Total				409	100	33,264	100	375	100	43,708					100								
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1 2 3 4	Very little Some Quite a bit Very much	46 129 146 89	11 32 36 22	3,038 9,126 12,025 9,020	10 28 36 26	2.7	2.8 *	-.11					68 126 102 79	19 33 27 21	6,689 13,665 13,859 9,385			16 31 31 22			
Total				410	100	33,209	100				375	100	43,598		100								
e. Providing opportunities to be involved socially	SEsocial	1 2 3 4	Very little Some Quite a bit Very much	25 93 159 134	6 23 39 32	1,482 7,210 13,925 10,564	5 22 42 31				3.0	3.0	-.04		31 83 154 106	8 22 42 28	3,388 11,454 17,316 11,427			8 26 39 27	2.9	2.8	.05
Total				411	100	33,181	100							374	100	43,585	100						
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1 2 3	Very little Some Quite a bit	33 115 132	8 29 32	1,819 7,410 13,350	6 22 40							2.9	3.0 *	-.13	43 124 134	11 32 37	4,804 11,925 16,167	11 27 37			

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The University of Tennessee, Knoxville

What Institutions Do

		First-Year Students								Seniors								
		Frequency Distributions ^a				Statistical Comparisons ^b				Frequency Distributions ^a				Statistical Comparisons ^b				
Item wording or description	Variable name ^c	Values ^d	Response options	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	
				Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean		
		4	Very much	129	31	10,560	32					74	20	10,608	25			
			Total	409	100	33,139	100					375	100	43,504	100			
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	132	32	7,008	21	2.1	2.3 ***	-.25		171	45	15,415	35	1.8	2.0 ***	-.22
		2	Some	152	38	12,633	38					125	33	15,760	36			
		3	Quite a bit	83	20	9,009	27					64	18	8,369	19			
		4	Very much	42	10	4,427	13					16	4	3,957	9			
			Total	409	100	33,077	100					376	100	43,501	100			
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	26	7	2,149	7	3.0	2.9 *	.13		22	6	5,501	13	2.9	2.7 ***	.29
		2	Some	85	21	8,391	26					88	24	13,087	29			
		3	Quite a bit	155	38	13,367	40					154	40	15,415	35			
		4	Very much	138	34	9,181	28					112	30	9,430	22			
			Total	404	100	33,088	100					376	100	43,433	100			
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	65	16	4,481	14	2.4	2.5	-.07		75	19	8,575	20	2.4	2.3	.03
		2	Some	151	36	12,109	37					132	36	17,081	39			
		3	Quite a bit	134	34	11,008	33					124	33	12,359	28			
		4	Very much	55	13	5,473	16					42	11	5,430	13			
			Total	405	100	33,071	100					373	100	43,445	100			

Appendix C

“What Students and Institutions Do”

NSSE 2019 Frequencies and Statistical Comparisons

The University of Tennessee, Knoxville

What Students and Institutions Do

Seniors

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b		
				UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	
				Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
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	70	15	6,861	19	2.3	2.3	.04	59	14	8,177	18	2.5	2.4 *	.12
		2	Sometimes	246	49	16,267	44				181	42	19,212	40			
		3	Often	121	23	9,258	24				94	21	11,830	24			
		4	Very often	67	13	4,816	13				97	22	8,676	17			
		Total		504	100	37,202	100				431	100	47,895	100			
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	247	48	17,081	47	1.8	1.8	-.03	154	36	19,048	41	2.1	2.0 **	.15
		2	Sometimes	154	32	12,089	32				134	31	15,096	31			
		3	Often	68	13	5,373	14				74	17	8,067	16			
		4	Very often	32	6	2,471	7				68	16	5,494	11			
		Total		501	100	37,014	100				430	100	47,705	100			
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	143	29	11,291	32	2.0	2.0	-.01	85	20	12,439	27	2.3	2.1 **	.13
		2	Sometimes	246	50	16,171	44				201	47	20,199	42			
		3	Often	74	15	6,623	18				85	20	9,892	20			
		4	Very often	34	7	2,615	7				54	13	4,897	10			
		Total		497	100	36,700	100				425	100	47,427	100			
d. Discussed your academic performance with a faculty member	SFperform	1	Never	117	23	9,284	26	2.1	2.1	.01	85	20	11,725	26	2.3	2.1 **	.15
		2	Sometimes	241	50	17,021	46				189	44	21,370	45			
		3	Often	104	21	7,523	20				105	25	9,831	20			
		4	Very often	33	6	2,808	8				46	11	4,474	9			
		Total		495	100	36,636	100				425	100	47,400	100			

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What Students and Institutions Do

Seniors

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b		
				UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e
				Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean	
10. During the current school year, to what extent have your courses challenged you to do your best work?																	
	challenge	1	Not at all	3	1	302	1	5.5	5.4	.09	3	1	497	1	5.4	5.4	-.02
		2		4	1	325	1				13	4	715	2			
		3		19	5	1,543	5				14	4	2,202	5			
		4		45	11	3,944	12				44	12	5,093	12			
		5		126	30	12,016	35				116	29	13,900	31			
		6		124	29	8,891	25				99	26	11,240	25			
		7	Very much	101	23	6,946	20				95	24	10,588	24			
			Total	422	100	33,967	100	384	100	44,235	100						
11. Which of the following have you done or do you plan to do before you graduate?^f																	
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	43	11	3,222	10	10%	8%	.04	26	7	3,489	8	59%	53% *	.12
			Do not plan to do	12	3	1,435	5				51	13	6,491	15			
			Plan to do	326	77	26,473	77				82	21	10,077	23			
			Done or in progress	43	10	2,796	8				223	59	24,243	53			
			Total	424	100	33,926	100				382	100	44,300	100			
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	115	27	7,701	23	15%	13%	.08	19	5	4,063	10	44%	41%	.06
			Do not plan to do	76	19	6,154	19				171	45	17,846	41			
			Plan to do	168	39	15,670	45				24	6	3,580	8			
			Done or in progress	66	15	4,320	13				169	44	18,720	41			
			Total	425	100	33,845	100				383	100	44,209	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	113	27	9,705	29	22%	15% ***	.18	33	8	5,028	12	26%	23%	.06
			Do not plan to do	151	34	9,883	30				233	61	24,407	56			
			Plan to do	72	17	9,187	27				16	4	4,049	10			
			Done or in progress	88	22	4,961	15				101	26	10,602	23			
			Total	424	100	33,736	100				383	100	44,086	100			

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The University of Tennessee, Knoxville

What Students and Institutions Do

Seniors

				Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b				
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean			Count	%	Count	%	Mean	Mean		Effect size ^e
d. Participate in a study abroad program	abroad (Means indicate the percentage who responded "Done or in progress.")		Have not decided	73	18	8,198	25	4%	4%	.01		27	8	4,061	10	22%	19%	.07	
			Do not plan to do	106	27	7,228	23					245	65	27,854	64				
			Plan to do	228	52	17,134	48					23	6	3,064	7				
			Done or in progress	17	4	1,192	4					88	22	9,136	19				
			Total	424	100	33,752	100					383	100	44,115	100				
e. Work with a faculty member on a research project	research (Means indicate the percentage who responded "Done or in progress.")		Have not decided	140	33	11,346	34	6%	5%	.03		40	11	5,702	14	39%	26% ***	.28	
			Do not plan to do	89	20	7,289	21					154	40	21,208	48				
			Plan to do	170	40	13,288	39					35	10	5,425	13				
			Done or in progress	26	6	1,820	5					153	39	11,781	26				
			Total	425	100	33,743	100					382	100	44,116	100				
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone (Means indicate the percentage who responded "Done or in progress.")		Have not decided	125	30	10,337	32	1%	2%	-.06		34	9	3,384	9	50%	44% *	.10	
			Do not plan to do	47	10	3,520	11					94	23	9,524	24				
			Plan to do	247	59	19,236	55					70	19	10,226	24				
			Done or in progress	4	1	615	2					183	50	20,907	44				
			Total	423	100	33,708	100					381	100	44,041	100				
12. About how many of your courses at this institution have included a community-based project (service-learning)?																			
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
				UT Knoxville		C													

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The University of Tennessee, Knoxville

What Students and Institutions Do

Seniors

		Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b				
		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e	
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e
13. Indicate the quality of your interactions with the following people at your institution.																	
a. Students	QIstudent	1	Poor	5	1	454	2	5.3	5.4	-.07	3	1	539	1	5.4	5.5	-.09
		2		9	2	596	2				7	2	715	2			
		3		18	4	1,542	5				15	4	1,790	4			
		4		64	15	3,981	12				46	12	4,645	11			
		5		126	31	9,445	28				122	32	11,456	26			
		6		112	27	9,206	27				105	27	12,231	27			
		7	Excellent	82	19	8,200	24				80	22	12,063	27			
		—	Not applicable	1	0	138	0				2	0	543	1			
	Total	417	100	33,562	100	380	100	43,982	100								
b. Academic advisors	QIadvisor	1	Poor	8	2	877	3	5.5	5.3 **	.13	16	4	2,189	5	5.1	5.1	.03
		2		14	3	1,283	4				21	6	2,453	6			
		3		27	6	2,364	7				35	9	3,685	8			
		4		53	12	4,598	14				42	11	6,013	14			
		5		76	17	7,063	21				83	22	8,473	19			
		6		101	25	7,227	21				80	20	8,387	19			
		7	Excellent	140	34	9,655	29				102	28	12,406	28			
		—	Not applicable	0	0	449	2				1	0	358	1			
	Total	419	100	33,516	100	380	100	43,964	100								
c. Faculty	QIfaculty	1	Poor	4	1	455	2	5.3	5.3	.01	0	0	665	2	5.4	5.3	.05
		2		12	3	805	2				8	2	944	2			
		3		17	4	1,883	6				28	8	2,295	5			
		4		58	14	4,860	15				39	11	5,952	13			
		5		139	33	9,641	28				107	27	11,615	26			
		6		118	29	9,160	27				113	31	12,406	28			
		7	Excellent	69	16	6,414	20				85	21	9,751	23			
		—	Not applicable	2	1	296	1				0	0	307	1			
	Total	419	100	33,514	100	380	100	43,935	100								

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Seniors

				Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b					
				UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e		UT Knoxville		Carnegie Class		UT Knoxville		Carnegie Class	Effect size ^e
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean			Count	%	Count	%	Mean	Mean		Effect size ^e	
d. Student services staff (career services, student activities, housing, etc.)	Qlstaff	1	Poor	12	3	954	3	5.2	5.1	.04		12	3	1,778	4	5.1	4.9 *	.11		
		2		10	2	1,195	4					11	3	1,916	4					
		3		28	6	2,287	7					25	7	3,293	8					
		4		63	13	4,951	15					53	14	6,610	15					
		5		97	25	7,867	23					78	20	8,933	20					
		6		99	23	7,255	21					78	20	7,779	17					
		7	Excellent	73	18	6,554	20					67	18	7,097	17					
		—	Not applicable	35	9	2,449	8					56	15	6,525	15					
Total				417	100	33,512	100	380	100	43,931	100									
e. Other administrative staff and offices (registrar, financial aid, etc.)	Qladmin	1	Poor	10	2	1,074	3	5.1	5.0	.07		14	4	2,146	5	5.0	4.8 *	.11		
		2		16	4	1,343	4					15	4	2,321	5					
		3		23	5	2,541	8					26	7	3,992	9					
		4		66	16	5,309	16					54	14	7,306	16					
		5		102	25	7,694	23					88	22	9,548	21					
		6		87	21	6,591	19					87	23	8,018	18					
		7	Excellent	68	16	5,744	18					56	15	7,057	17					
		—	Not applicable	44	11	3,205	10					40	11	3,519	8					
Total				416	100	33,501	100	380	100	43,907	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	45	11	2,790	9	2.7	2.7	-.02		14	4	2,717	7	3.1	2.9 *	.13		
		2	Some	115	30	9,864	31					83	23	10,073	24					
		3	Quite a bit	161	39	13,566	41					142	38	16,885	39					
		4	Very much	80	20	6,490	19					131	36	13,399	31					
		Total				401	100					32,710	100	370	100					43,074
b. Speaking clearly and effectively	pgspeak	1	Very little	63	16	4,133	13	2.5	2.6	-.07		23	7	3,479	8	3.0	2.9 *	.11		
		2	Some	127	32	10,791	33					85	24	10,787	25					
		3	Quite a bit	146	36	11,832	36					134	35	16,000	37					
		4	Very much	65	16	5,953	18					128	35	12,866	30					
		Total				401	100					32,709	100	370	100					43,132

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Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b		
				UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e
				Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean	
c. Thinking critically and analytically	pgthink	1	Very little	18	5	959	3	3.0	3.1	-.01	10	3	998	3	3.4	3.3 *	.12
		2	Some	83	21	6,427	20				39	11	5,463	13			
		3	Quite a bit	159	39	14,811	44				118	31	16,394	37			
		4	Very much	141	35	10,538	32				204	55	20,286	47			
		Total	401	100	32,735	100	371				100	43,141	100				
d. Analyzing numerical and statistical information	pganalyze	1	Very little	36	9	3,766	11	2.8	2.7	.07	23	6	3,714	8	3.0	3.0	.10
		2	Some	123	32	9,792	30				98	25	10,456	23			
		3	Quite a bit	138	33	11,932	36				107	29	14,366	33			
		4	Very much	105	27	7,226	23				143	40	14,616	35			
		Total	402	100	32,716	100	371				100	43,152	100				
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	57	14	4,311	13	2.6	2.6	.01	33	9	3,997	10	2.9	2.9	.00
		2	Some	124	31	10,756	33				86	23	10,400	24			
		3	Quite a bit	145	37	11,325	34				139	38	14,420	33			
		4	Very much	75	19	6,334	19				113	30	14,314	33			
		Total	401	100	32,726	100	371				100	43,131	100				
f. Working effectively with others	pgothers	1	Very little	30	8	2,109	7	2.8	2.8	.02	14	3	2,121	5	3.1	3.0	.06
		2	Some	116	29	9,138	28				77	22	9,123	22			
		3	Quite a bit	149	36	13,553	41				144	39	16,560	38			
		4	Very much	107	27	7,885	24				135	36	15,345	35			
		Total	402	100	32,685	100	370				100	43,149	100				
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	74	20	3,888	13	2.6	2.6	-.10	52	15	5,306	13	2.7	2.8	-.03
		2	Some	106	26	9,727	30				92	25	11,197	26			
		3	Quite a bit	135	33	12,164	36				123	33	14,545	33			
		4	Very much	86	21	6,903	21				102	27	12,056	28			
		Total	401	100	32,682	100	369				100	43,104	100				

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		Frequency Distributions ^a				Statistical Comparisons ^b			Frequency Distributions ^a				Statistical Comparisons ^b				
		UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e	UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class	Effect size ^e		
Item wording or description	Variable name ^c	Values ^d	Response options	Count	%	Count	%	Mean	Mean		Count	%	Count	%	Mean	Mean	Effect size ^e
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	58	16	2,773	10	2.6	2.8 ***	-0.19	49	14	4,208	10	2.8	2.8	-0.03
		2	Some	117	29	9,001	28				74	20	11,141	26			
		3	Quite a bit	142	35	12,466	37				139	37	14,779	34			
		4	Very much	81	20	8,445	25				107	29	12,961	30			
		Total		398	100	32,685	100				369	100	43,089	100			
i. Solving complex real-world problems	pgprobsolve	1	Very little	51	12	3,434	11	2.7	2.6	.02	36	10	3,774	9	2.9	2.8	.03
		2	Some	127	33	10,773	33				96	26	11,762	27			
		3	Quite a bit	130	31	11,963	36				123	33	15,330	35			
		4	Very much	91	23	6,520	20				116	31	12,250	29			
		Total		399	100	32,690	100				371	100	43,116	100			
j. Being an informed and active citizen	pgcitizen	1	Very little	70	19	3,694	12	2.5	2.6 *	-0.11	53	15	5,762	14	2.6	2.7	-0.03
		2	Some	114	28	10,430	32				114	31	13,111	30			
		3	Quite a bit	139	34	11,797	35				114	30	13,693	31			
		4	Very much	76	19	6,805	20				88	24	10,588	24			
		Total		399	100	32,726	100				369	100	43,154	100			
18. How would you evaluate your entire educational experience at this institution?																	
	evalexp	1	Poor	10	2	551	2	3.1	3.2	-0.07	8	2	1,096	3	3.2	3.2	-0.04
		2	Fair	69	17	3,876	12				46	13	5,165	12			
		3	Good	178	44	16,478	50				183	49	19,576	44			
		4	Excellent	144	37	11,954	36				134	36	17,493	40			
		Total		401	100	32,859	100				371	100	43,330	100			
19. If you could start over again, would you go to the same institution you are now attending?																	
	sameinst	1	Definitely no	17	4	1,028	3	3.2	3.2	-0.06	28	8	1,875	5	3.1	3.2	-0.11
		2	Probably no	53	11	3,719	11				52	14	5,156	12			
		3	Probably yes	174	46	13,918	42				134	36	17,102	39			
		4	Definitely yes	161	39	14,305	43				161	43	19,341	44			
		Total		405	100	32,970	100				375	100	43,474	100			

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				UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class		UT Knoxville		Carnegie Class		UT Knoxville	Carnegie Class			
				Count	%	Count	%	Mean	Mean	Effect size ^e	Count	%	Count	%	Mean	Mean	Effect size ^e		
20. Do you intend to return to this institution next year?^f	returnexp	No		13	3	1,178	4	93%	90%	.10									
(Means indicate the percentage who responded "Yes.")	Yes		376	93	29,949	90													
	Not sure		17	4	1,915	6													
	Total		406	100	33,042	100													