Tennessee Technological University NSSE 2017 Major Field Report, Part II Comparisons to Other Institutions Engineering

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

The Major Field Report group 'Engineering' includes the following majors: Aero-, astronautical engineering; Architecture; Bioengineering; Biomedical engineering; Chemical engineering; Civil engineering; Computer engineering and technology; Computer information systems; Computer science; Electrical or electronic engineering; Engineering (general); Industrial engineering; Information systems; Information technology; Materials engineering; Mechanical engineering; Network security and systems; Other computer science and technology; Other engineering; Software engineering; Telecommunications; Urban planning.



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.



NSSE 2017 Major Field Report, Part II

About This Report

About Your Major Field Report, Part II

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

NSSE results included in MFR, Part II

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

Related-Major Groups

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

Sample

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

Class

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

Technical Requirements

Related-major groups with fewer than 5 respondents in a given class are not reported (columns are blank). Groups containing at least 5 respondents, but fewer than 20, are reported in frequency distributions only. Comparison groups must contain at least 20 respondents in the major category, or they remain blank. Although 20 is a minimum requirement for all other statistics (Engagement Indicators, means, etc.), keep in mind that any statistical result requires a sufficient number of respondents per group to produce a reliable estimate. Due to the disaggregation of results by student-reported major, *Major Field Report* results are unweighted.

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

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



Overview of Engagement Indicators: Engineering Tennessee Technological University

Engagement Indicators: Overview

Engagement Indicators are summary measures based on sets of NSSE questions examining key dimensions of student engagement. The ten indicators are organized within four themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores^a for your students in this related-major category with students in your comparison groups within the same category.

Use the following key:

- **A** Your students' average was significantly higher (p<.05) with an effect size at least .3 in magnitude.
- \triangle Your students' average was significantly higher (p<.05) with an effect size less than .3 in magnitude.
- -- No significant difference.
- ∇ Your students' average was significantly lower (p<.05) with an effect size less than .3 in magnitude.
- **Vour students' average** was significantly lower (p<.05) with an effect size at least .3 in magnitude.

		First-Y	ear Students in Engir	neering		Seniors in Engineerin	g
		Your first-year students compared with	Your first-year students compared with	Your first-year students compared with	Your seniors compared with	Your seniors compared with	Your seniors compared with
Theme	Engagement Indicator	Carnegie Class	THEC Peer Group	NSSE 2016 & 2017	Carnegie Class	THEC Peer Group	NSSE 2016 & 2017
	Higher-Order Learning		∇				
Academic	Reflective & Integrative Learning	∇	\mathbf{V}	∇		∇	
Challenge	Learning Strategies						
	Quantitative Reasoning	∇	∇	∇			
Learning with	Collaborative Learning				Δ		
Peers	Discussions with Diverse Others						
Experiences	Student-Faculty Interaction						
with Faculty	Effective Teaching Practices						
Campus	Quality of Interactions						
Environment	Supportive Environment						



Engagement Indicators: Engineering Tennessee Technological University

First-year students^a in

Engineering	Mea	n statistics			Percer	ntile ^d scores			C	Comparison re	sults	
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Siq. ^f	Effect size ^g
Academic Challenge	Weun	30	SEIVI	501	25(11	5001	7501	3501	Deg. of freedom	uŋj.	Sig.	5120
Higher-Order Learning												
Tennessee Tech $(N = 100)$	37.1	13.9	1.39	18	30	35	45	60				
Carnegie Class	38.0	13.2	.26	15	30	40	45	60	2,752	9		067
THEC Peer Group	40.9	13.6	.87	20	35	40	55	60	343	-3.8	*	276
NSSE 2016 & 2017	38.2	12.8	.08	20	30	40	45	60	25,288	-1.1		083
Reflective & Integrative Learning	2012	1210	100	20	20			00	20,200			
Tennessee Tech $(N = 101)$	31.0	10.5	1.04	17	23	31	37	49				
Carnegie Class	31.0	10.3 11.7	.23	17	23 26	31	40	49 54	2,781	-2.6	*	220
THEC Peer Group	33.5	11.7	.23	14	20 26	34 34	40	57	2,781	-2.0	**	220
NSSE 2016 & 2017	34.9	12.5	.80 .07	14 14	26 26	34 34	43 40	54	25,583	-3.9	*	203
	55.5	11.5	.07	14	20	54	40	54	23,385	-2.5	÷	203
Learning Strategies				• •		10		- 0				
Tennessee Tech $(N = 101)$	38.2	12.9	1.28	20	27	40	47	60				
Carnegie Class	36.8	13.6	.26	13	27	40	47	60	2,756	1.4		.107
THEC Peer Group	39.9	14.1	.90	20	27	40	53	60	342	-1.7		122
NSSE 2016 & 2017	36.5	13.5	.08	13	27	33	47	60	25,391	1.8		.131
Quantitative Reasoning												
Tennessee Tech $(N = 99)$	26.8	14.3	1.43	7	13	27	40	53				
Carnegie Class	30.2	15.2	.29	7	20	27	40	60	2,760	-3.4	*	222
THEC Peer Group	31.2	16.0	1.02	7	20	33	40	60	342	-4.4	*	283
NSSE 2016 & 2017	30.1	14.8	.09	7	20	27	40	60	25,310	-3.3	*	221
Learning with Peers												
Collaborative Learning												
Tennessee Tech $(N = 101)$	36.2	14.4	1.43	15	25	35	50	60				
Carnegie Class	34.0	14.2	.27	10	25	35	45	60	2,765	2.2		.154
THEC Peer Group	35.6	15.1	.97	10	25	35	45	60	341	.6		.040
NSSE 2016 & 2017	35.1	14.3	.09	10	25	35	45	60	25,424	1.1		.075
Discussions with Diverse Others												
Tennessee Tech $(N = 102)$	40.2	13.3	1.31	20	30	40	50	60				
Carnegie Class	39.1	15.5	.30	15	30	40	50	60	112	1.1		.069
THEC Peer Group	40.9	15.6	.99	15	30	40	60	60	220	7		045
NSSE 2016 & 2017	39.9	15.4	.10	15	30	40	55	60	25,418	.3		.018



Engagement Indicators: Engineering Tennessee Technological University

First-year students^a in

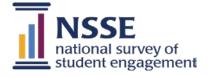
Engineering	Mea	n statistics			Percei	ntile ^d scores			C	Comparison re	sults	
										Mean		Effect
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	diff.	Sig. ^f	size ^g
Experiences with Faculty												
Student-Faculty Interaction												
Tennessee Tech $(N = 99)$	20.1	14.5	1.46	0	10	20	30	50				
Carnegie Class	19.3	13.9	.27	0	10	15	25	45	2,766	.7		.051
THEC Peer Group	19.3	15.1	.96	0	10	15	25	50	344	.7		.048
NSSE 2016 & 2017	19.1	13.8	.09	0	10	15	25	45	25,321	.9		.069
Effective Teaching Practices												
Tennessee Tech $(N = 102)$	40.4	12.3	1.21	20	32	40	52	60				
Carnegie Class	38.5	12.8	.25	16	30	40	48	60	2,784	1.9		.147
THEC Peer Group	40.6	12.8	.81	20	32	40	52	60	347	2		013
NSSE 2016 & 2017	38.2	12.7	.08	16	28	40	48	60	25,597	2.2		.175
Campus Environment												
Quality of Interactions												
Tennessee Tech $(N = 102)$	43.6	11.7	1.16	20	36	46	52	60				
Carnegie Class	42.0	12.1	.24	20	35	43	50	60	2,644	1.6		.131
THEC Peer Group	41.3	13.0	.83	18	32	44	50	60	346	2.3		.182
NSSE 2016 & 2017	42.2	11.8	.08	20	36	44	50	60	24,315	1.4		.119
Supportive Environment												
Tennessee Tech $(N = 100)$	34.3	13.2	1.32	15	23	35	43	60				
Carnegie Class	35.6	13.2	.26	13	28	35	45	60	2,779	-1.3		098
THEC Peer Group	37.1	14.4	.92	13	28	38	50	60	344	-2.8		199
NSSE 2016 & 2017	36.1	13.1	.08	15	28	38	45	60	25,531	-1.8		138



Engagement Indicators: Engineering Tennessee Technological University

Seniors^a in

Engineering	Mea	n statistics			Percer	ntile ^d scores			C	Comparison re	sults	
										Mean		Effect
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom e	diff.	Sig. ^f	size ^g
Academic Challenge												
Higher-Order Learning												
Tennessee Tech $(N = 138)$	36.3	13.9	1.18	10	30	40	45	60				
Carnegie Class	38.4	13.8	.24	15	30	40	50	60	3,414	-2.1		153
THEC Peer Group	40.7	14.2	.86	15	30	40	50	60	412	-4.4	**	313
NSSE 2016 & 2017	38.1	13.4	.08	15	30	40	45	60	30,618	-1.8		133
Reflective & Integrative Learning												
Tennessee Tech $(N = 139)$	31.8	10.8	.92	17	26	31	37	49				
Carnegie Class	33.4	12.0	.21	14	26	34	40	54	3,449	-1.6		134
THEC Peer Group	34.2	12.2	.73	14	26	34	43	57	306	-2.4	*	207
NSSE 2016 & 2017	33.3	11.8	.07	14	26	34	40	54	30,906	-1.5		127
Learning Strategies												
Tennessee Tech $(N = 137)$	37.0	15.4	1.32	7	27	40	47	60				
Carnegie Class	36.3	14.7	.26	13	27	33	47	60	3,412	.7		.049
THEC Peer Group	39.1	15.2	.91	13	27	40	53	60	413	-2.1		138
NSSE 2016 & 2017	35.1	14.6	.08	13	27	33	47	60	30,637	2.0		.135
Quantitative Reasoning												
Tennessee Tech $(N = 137)$	35.3	15.5	1.33	7	27	33	47	60				
Carnegie Class	32.9	15.9	.28	7	20	33	40	60	3,415	2.4		.150
THEC Peer Group	35.1	15.8	.94	7	27	33	47	60	416	.2		.014
NSSE 2016 & 2017	33.3	15.7	.09	7	20	33	47	60	30,593	2.0		.127
Learning with Peers												
Collaborative Learning												
Tennessee Tech $(N = 139)$	39.4	14.4	1.22	15	30	40	50	60				
Carnegie Class	35.7	14.9	.26	10	25	35	45	60	3,426	3.7	**	.250
THEC Peer Group	39.6	13.8	.83	15	30	40	50	60	415	2		015
NSSE 2016 & 2017	37.3	14.6	.08	15	25	40	50	60	30,724	2.1		.141
Discussions with Diverse Others												
Tennessee Tech $(N = 138)$	41.0	16.8	1.43	5	30	40	60	60				
Carnegie Class	40.0	16.7	.29	5	30	40	55	60	3,406	1.0		.059
THEC Peer Group	41.9	16.1	.97	15	30	40	60	60	415	9		057
NSSE 2016 & 2017	40.1	16.2	.09	10	30	40	55	60	30,670	.9		.057



Engagement Indicators: Engineering Tennessee Technological University

Seniors^a in

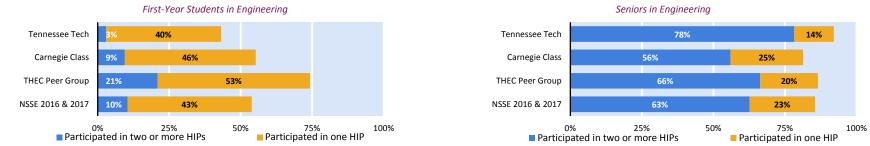
Engineering	Mea	n statistics			Percei	ntile ^d scores			C	Comparison re	sults	
										Mean		Effect
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	diff.	Sig. ^f	size ^g
Experiences with Faculty												
Student-Faculty Interaction												
Tennessee Tech $(N = 136)$	24.0	16.2	1.39	0	13	25	35	60				
Carnegie Class	21.8	15.8	.28	0	10	20	30	55	3,412	2.2		.140
THEC Peer Group	25.1	15.9	.95	0	15	20	40	60	415	-1.1		067
NSSE 2016 & 2017	22.1	15.3	.09	0	10	20	30	50	30,638	1.9		.124
Effective Teaching Practices												
Tennessee Tech $(N = 139)$	36.9	13.7	1.16	12	28	40	44	60				
Carnegie Class	37.4	13.7	.24	12	28	36	48	60	3,454	4		033
THEC Peer Group	38.9	13.5	.80	16	32	40	48	60	419	-2.0		148
NSSE 2016 & 2017	36.9	13.4	.08	16	28	36	48	60	30,935	.0		.001
Campus Environment												
Quality of Interactions												
Tennessee Tech $(N = 134)$	41.0	11.6	1.00	18	34	42	50	60				
Carnegie Class	41.7	12.0	.22	20	34	43	50	60	3,245	7		056
THEC Peer Group	41.2	12.2	.74	18	34	42	50	60	404	2		019
NSSE 2016 & 2017	41.0	11.9	.07	20	34	42	50	60	29,343	.0		002
Supportive Environment												-
Tennessee Tech $(N = 139)$	28.9	13.7	1.16	8	20	28	38	55				
Carnegie Class	30.2	14.3	.25	8	20	30	40	58	3,436	-1.3		090
THEC Peer Group	31.0	14.8	.88	8	20	30	40	60	417	-2.1		146
NSSE 2016 & 2017	30.7	13.8	.08	8	20	30	40	55	30,815	-1.8		131



High-Impact Practices: Engineering Tennessee Technological University

Overall HIP Participation^{a,h}

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



Statistical Comparisons

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

				Y	our students' participation of	compared	with:			
	Tennessee Tech	Carnegie Class			THEC Peer Grou	р		NSSE 2016 & 2017	,	
First-Year Students in Engineering	%	Difference ⁱ		ES ^j	Difference ⁱ		ES ^j	<i>Differenceⁱ</i>		ES ^j
12. Service-Learning	37	-12	*	25	-30	***	61	-9		18
11c. Learning Community	5	-8	*	30	-20	***	60	-10	**	34
11e. Research with Faculty	4	+0		.02	-3		13	-1		06
Participated in at least one	43	-12	*	24	-31	***	64	-11	*	22
Participated in two or more	3	-7	*	28	-18	***	61	-7	*	31
Seniors in Engineering										
12. Service-Learning	51	+4		.08	-16	**	32	+4		.09
11c. Learning Community	21	+1		.03	-3		06	-2		04
11e. Research with Faculty	30	+9	*	.20	+8		.17	+3 📕		.06
11a. Internship or Field Exp.	64	+13	**	.26	+13	*	.27	+10	*	.21
11d. Study Abroad	9	+2		.06	+3		.13	-2		08
11f. Culminating Senior Exp.	62	+18	***	.36	+14	**	.28	+10	*	.21
Participated in at least one	92	+11	**	.32	+6		.18	+7 📃	*	.21
Participated in two or more	78	+22	***	.48	+12	*	.27	+16	***	.35



Frequencies and Statistical Comparisons: Engineering

Item wording or description Variable name ¹ 1. During the current school year, a. Asked questions or contributed to course discussions in other ways askquestions or contributed to course discussions in other ways b. Prepared two or more drafts of a paper or assignment before turming it in drafts c. Come to class without completing readings or assignments unprepar (Reverse-cc version unprepar created by N d. Attended an art exhibit, play, or other arts performance (dance, music, etc.) attendation	abou st		Response options ften have you done to Never Sometimes Often Very often Total Never Sometimes Often	Count Count the following? 2 44 34 21 101 27 28	Fech % 2 44 34 21 100 27	Carnegie C <u>Count</u> 79 1,020 997 599 2,695	lass % 3 38 37 22	THEC Peer G <u>Count</u> 6 82 99	% 2 33	NSSE 2016 2017 <i>Count</i> 1,026 9,960	5 & <u>%</u> 4	Tennessee Tech Mean	Carnegie Mean		irst-year studen THEC Peer Mean	,	nred with NSSE 2016 Mean	& 2017 Effect size ⁿ
Item wording or description Variable name! 1. During the current school year, a. Asked questions or contributed to course discussions in other ways askquestions askquestic askquestic discussions in other b. Prepared two or more drafts of a paper or assignment before turning it in drafts drafts drafts c. Come to class without completing readings or assignments unprepare (Reverse-co- version) unprepare created by N d. Attended an art exhibit, play, or other arts performance (dance, attenda	abou st	t how o 1 2 3 4 1 2 3	ften have you done the Never Sometimes Often Very often Total Never Sometimes	Count he following? 2 44 34 21 101 27	% 2 44 34 21 100	Count 79 1,020 997 599	% 3 38 37	<i>Count</i> 6 82	% 2 33	2017 <i>Count</i> 1,026	%		0	Effect		Effect		Effect
or description name ¹ 1. During the current school year, a. Asked questions or askquestions or a. Asked questions or askquestions or askquestions or contributed to course discussions in other ways b. Prepared two or more drafts drafts of a paper or assignment before turning it in completing readings or assignments (Reverse-coversion) unprepar created by N d. Attended an art exhibit, attendar play, or other arts performance (dance,	abou st	t how o 1 2 3 4 1 2 3	ften have you done the Never Sometimes Often Very often Total Never Sometimes	Count he following? 2 44 34 21 101 27	% 2 44 34 21 100	Count 79 1,020 997 599	% 3 38 37	<i>Count</i> 6 82	% 2 33	<i>Count</i> 1,026			0	Effect		Effect		Effect
or description name! 1. During the current school year, a. Asked questions or contributed to course discussions in other ways askquestions or contributed to course discussions in other ways b. Prepared two or more drafts of a paper or assignment before turning it in drafts c. Come to class without completing readings or assignments unprepare created by N d. Attended an art exhibit, play, or other arts performance (dance, attenda	st	t how o 1 2 3 4 1 2 3	ften have you done the Never Sometimes Often Very often Total Never Sometimes	he following? 2 44 34 21 101 27	2 44 34 21 100	79 1,020 997 599	3 38 37	6 82	2 33	1,026		Mean	Mean	size "	Mean	size "	Mean	size "
 a. Asked questions or contributed to course discussions in other ways b. Prepared two or more drafts of a paper or assignment before turning it in c. Come to class without completing readings or assignments d. Attended an art exhibit, play, or other arts performance (dance, 	st	1 2 3 4 1 2 3	Never Sometimes Often Very often Total Never Sometimes	2 44 34 21 101 27	44 34 21 100	1,020 997 599	38 37	82	33		4							
contributed to course discussions in other ways b. Prepared two or more drafts of a paper or assignment before turning it in c. Come to class without completing readings or assignments (Reverse-conversion unprepared to pay of the pay, or other arts performance (dance, set the pay of t		4 1 2 3	Sometimes Often Very often Total Never Sometimes	44 34 21 101 27	44 34 21 100	1,020 997 599	38 37	82	33		4							
discussions in other ways b. Prepared two or more drafts of a paper or assignment before turning it in c. Come to class without completing readings or assignments (<i>Reverse-cuversion</i> unprepar <i>created by N</i> d. Attended an art exhibit, play, or other arts performance (dance,		4 1 2 3	Often Very often Total Never Sometimes	34 21 101 27	34 21 100	997 599	37			9 960								
 ways b. Prepared two or more drafts of a paper or assignment before turning it in c. Come to class without completing readings or assignments (Reverse-coversion unprepare created by N) d. Attended an art exhibit, play, or other arts performance (dance, coversion coversion coversion) 		4 1 2 3	Very often Total Never Sometimes	21 101 27	21 100	599		99		,,,00	39							
 b. Prepared two or more drafts of a paper or assignment before turning it in c. Come to class without completing readings or assignments c. Come to class without unprepare created by N d. Attended an art exhibit, play, or other arts performance (dance, 		1 2 3	Total Never Sometimes	101 27	100		22		40	9,134	36	2.7	2.8	06	2.9	15	2.7	01
drafts of a paper or assignment before turning it in c. Come to class without completing readings or assignments (Reverse-cu- version unprepar created by N d. Attended an art exhibit, play, or other arts performance (dance,			Never Sometimes	27		2.695		59	24	5,417	21							
drafts of a paper or assignment before turning it in c. Come to class without completing readings or assignments (Reverse-cu- version unprepar created by N d. Attended an art exhibit, play, or other arts performance (dance,			Sometimes		27	_,	100	246	100	25,537	100							
assignment before turning it in c. Come to class without completing readings or assignments d. Attended an art exhibit, play, or other arts performance (dance,				28	27	509	19	60	24	4,936	19							
turning it in c. Come to class without completing readings or assignments d. Attended an art exhibit, play, or other arts performance (dance,			Often		28	1,045	39	84	34	9,513	37							
 c. Come to class without completing readings or assignments d. Attended an art exhibit, play, or other arts performance (dance, 		4		30	30	758	28	66	27	7,264	29	2.3	2.4	03	2.3	.02	2.4	04
completing readings or assignments (<i>Reverse-cc</i> <i>version</i> unprepar <i>created by N</i> d. Attended an art exhibit, play, or other arts performance (dance,			Very often	16	16	379	14	37	15	3,754	15							
completing readings or assignments (<i>Reverse-cc</i> <i>version</i> unprepar <i>created by N</i> d. Attended an art exhibit, play, or other arts performance (dance,			Total	101	100	2,691	100	247	100	25,467	100							
assignments (<i>Reverse-cc</i> <i>version</i> unprepar <i>created by</i> N d. Attended an art exhibit, attenda play, or other arts performance (dance,	edr	1	Very often	3	3	122	5	13	5	1,114	4							
d. Attended an art exhibit, attenda play, or other arts performance (dance,	oded	2	Often	6	6	302	11	33	13	3,247	13							
d. Attended an art exhibit, attenda play, or other arts performance (dance,	of	3	Sometimes	71	70	1,521	57	126	51	14,519	57	3.1	3.1	.03	3.1	.04	3.0	.07
 d. Attended an art exhibit, attenda play, or other arts performance (dance, 		4	Never	22	22	744	28	75	30	6,608	26							
play, or other arts performance (dance,	SSE.)		Total	102	100	2,689	100	247	100	25,488	100							
performance (dance,	rt	1	Never	24	24	1,234	46	116	47	10,720	42							
1 ()		2	Sometimes	41	40	1,006	37	79	32	9,979	39							
music, etc.)		3	Often	23	23	331	12	37	15	3,481	14	2.3	1.8 ***	.61	1.8 ***	.50	1.8 ***	.52
		4	Very often	14	14	120	4	15	6	1,319	5							
			Total	102	100	2,691	100	247	100	25,499	100							
e. Asked another student CLaskhe	lp	1	Never	6	6	225	8	12	5	1,934	8							
to help you understand		2	Sometimes	26	26	957	36	94	38	8,474	33							
course material		3	Often	35	35	968	36	76	31	9,394	37	3.0	2.7 **	.32	2.8	.20	2.7 *	.25
		4	Very often	34	34	541	20	64	26	5,726	22						Δ	
			Total	101	100	2,691	100	246	100	25,528	100							
f. Explained course CLexpla	in	1	Never	4	4	115	4	12	5	975	4							
material to one or more		2	Sometimes	33	32	864	32	70	28	7,807	31							
students		3	Often	45	44	1,101	41	106	43	10,634	42	2.8	2.8	03	2.9	08	2.9	08
		4	Very often	20	20	614	23	59	24	6,116	24							
			Total	102	100	2,694	100	247	100	25,532	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	l <mark>ents^a in</mark>	l				Frequenc	cy Di	stribution	S				Sta	tistical	Comparise	ons ^k		
Engineering										NGGE 201				Your f	irst-year stude	nts comp	ared with	
0 0				Tennessee 1	Toch	Carnegie Cla	cc 7	THEC Door G	roun	NSSE 2016 2017	٥&	Tennessee Tech	Carnegi	o Class	THEC Peer	Group	NSSE 2016	8,2017
Item wording	Variable			Terifiessee	letii	Carriegie Cia.	33		loup	2017			Carriego	Effect	meereer	Effect	NJJL 2010	Effect
or description	name ¹	Values [*]	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size ⁿ
g. Prepared for exams by	CLstudy	1	Never	13	13	406	15	33	13	3,290	13							
discussing or working		2	Sometimes	32	31	918	34	75	30	8,227	32							
through course material with other students		3	Often	30	29	845	31	78	32	8,333	33	2.7	2.5	.15	2.7	.03	2.6	.06
		4	Very often	27	26	519	19	60	24	5,666	22							
			Total	102	100	2,688	100	246	100	25,516	100							
h. Worked with other	CLproject	1	Never	4	4	169	6	19	8	1,484	6							
students on course		2	Sometimes	40	39	919	34	77	31	8,337	33							
projects or assignments		3	Often	33	32	1,014	38	77	31	9,916	39	2.8	2.8	.03	2.8	06	2.8	01
		4	Very often	25	25	586	22	74	30	5,762	23							
			Total	102	100	2,688	100	247	100	25,499	100							
i. Given a course	present	1	Never	20	20	497	18	59	24	5,510	22							
presentation		2	Sometimes	47	47	1,343	50	111	45	12,181	48							
		3	Often	27	27	641	24	52	21	5,759	23	2.2	2.2	.00	2.2	.04	2.2	.04
		4	Very often	7	7	212	8	25	10	2,077	8							
			Total	101	100	2,693	100	247	100	25,527	100							
2. During the current sch	nool vear, abo	out how a	often have you done th	e following?														
a. Combined ideas from	RIintegrate	1	Never	12	12	242	9	17	7	1,956	8							
different courses when	8	2	Sometimes	44	44	1,122	42	99	40	10,660	42							
completing assignments		- 3	Often	32	32	959	36	85	34	9,511	37	2.5	2.5	10	2.6	22	2.6	13
		4	Very often	13	13	362	13	46	19	3,373	13	2.0	2.5	10	2.0	22	2.0	15
			Total	101	100		100	247	100	25,500	100							
b. Connected your	RIsocietal	1	Never	21	21	351	13	30	12	3,353	13							
learning to societal	Tussenetari	2	Sometimes	57	56	1,194	44	106	43	11,575	45							
problems or issues		3	Often	18	18	840	31	82	33	7,862	31	2.1	2.4 ***	38	2.4 ***	43	2.4 ***	35
		4	Very often	6	6	303	11	29	12	2,678	11	2.1	2.4	38	2.4	43	2.4	35
		4	Total	102	100		100	29	100	2,078	100		•		•		•	
c. Included diverse	RIdiverse	1	Never	102	100	406	100	35	100	4,216	100							
perspectives (political,	Ruiveise	2	Sometimes	52	51	1.164	43	114	46	10,981	43							
religious, racial/ethnic,		2	Often	32 26	25	799	43 30	67	40 27	7,434	43 29	2.2	2.4 *	21	2.4	22	2.3	17
gender, etc.) in course		4	Very often	20 6	23 6	312	12	31	13	2,850	11	4.4		21	2.4	22	2.3	17
discussions or		4	Very onen Total	0 102	0 100		12		100	,	100		∇					
assignments			TOTAL	102	100	2,681	100	247	100	25,481	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

First-Year Stu	dents ^a in					Frequen	cy D	istribution	s				St	atistical	Comparis	ons ^k		
Engineering										NCCE 2017	- 0			Your f	irst-year stude	nts comp	ared with	
•				Tennessee 1	- ech	Carnegie Cl	200	THEC Peer G	roun	NSSE 2016 2017	0 Å	Tennessee Tech	Carneg	ie Class	THEC Pee	Group	NSSE 201	6 & 2017
Item wording	Variable			Tennessee	een	carriegie ci	333	THECT EEF G	loup	2017			carrieg	Effect	meeree	Effect	N35L 201	Effect
or description	name'	Values ^{**}	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size ⁿ	Mean	size ⁿ
d. Examined the strengths	RIownview	1	Never	4	4	165	6	13	5	1,534	6							
and weaknesses of your own views on a		2	Sometimes	34	33	881	33	81	33	8,579	34							
topic or issue		3	Often	53	52	1,165	43	91	37	11,170	44	2.7	2.7	03	2.8	15	2.7	01
		4	Very often	11	11	471	18	63	25	4,190	16							
			Total	102	100	2,682	100	248	100	25,473	100							
e. Tried to better	RIperspect	1	Never	7	7	104	4	11	5	1,027	4							
understand someone		2	Sometimes	27	27	778	29	52	21	7,519	30							
else's views by imagining how an issue		3	Often	47	47	1,166	43	111	45	11,406	45	2.8	2.9	11	3.0 *	25	2.8	08
looks from their		4	Very often	19	19	639	24	70	29	5,522	22				∇			
perspective			Total	100	100	2,687	100	244	100	25,474	100							
f. Learned something that	RInewview	1	Never	3	3	96	4	12	5	868	3							
changed the way you		2	Sometimes	37	37	885	33	76	31	8,311	33							
understand an issue or		3	Often	44	44	1,167	44	99	40	11,441	45	2.7	2.8	07	2.8	11	2.8	07
concept		4	Very often	17	17	532	20	59	24	4,818	19							
			Total	101	100	2,680	100	246	100	25,438	100							
g. Connected ideas from	RIconnect	1	Never	3	3	48	2	6	2	389	2							
your courses to your		2	Sometimes	23	23	590	22	50	20	5,478	22							
prior experiences and knowledge		3	Often	58	57	1,267	47	100	41	12,858	51	2.9	3.0	18	3.1 *	28	3.0	17
kilowieuge		4	Very often	18	18	766	29	89	36	6,688	26				∇			
			Total	102	100	2,671	100	245	100	25,413	100							
3. During the current so	hool year, abo	ut how o	often have you done th	e following?														
a. Talked about career	SFcareer	1	Never	30	30	712	26	79	32	6,661	26							
plans with a faculty		2	Sometimes	37	37	1,170	44	104	42	11,630	46							
member		3	Often	22	22	556	21	37	15	4,978	20	2.2	2.1	.03	2.0	.11	2.1	.06
		4	Very often	12	12	249	9	27	11	2,197	9							
			Total	101	100	2,687	100	247	100	25,466	100							
b. Worked with a faculty	SFotherwork	1	Never	48	47	1,390	52	120	49	12,806	50							
member on activities		2	Sometimes	28	27	806	30	77	31	8,097	32							
other than coursework (committees, student		3	Often	21	21	366	14	34	14	3,246	13	1.8	1.7	.14	1.8	.06	1.7	.12
groups, etc.)		4	Very often	5	5	128	5	16	6	1,300	5							
0 · · · · · · · · · · · · · · · · · · ·			Total	102	100	2,690	100	247	100	25,449	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	dents ^a in					Frequer	ncy D	istribution	IS				St	atistical	l Comparis	ons ^k		
Engineering										NSSE 2016	- 0			Your j	first-year stude	ents compo	ared with	
				Tennessee -	Tech	Carnegie C	lass	THEC Peer G	roun	2017	200	Tennessee Tech	Carneg	ie Class	THEC Pee	r Groun	NSSE 2016	5 & 2017
Item wording	Variable			Tennessee	reen	curregie e	1455		roup	2017			Curres	Effect	11120100	Effect	11002 2010	Effect
or description	name'	Values'	^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
c. Discussed course	SFdiscuss	1	Never	35	35	889	33	84	34	8,224	32							
topics, ideas, or concepts with a faculty		2	Sometimes	47	47	1,164	43	104	42	11,293	44							
member outside of		3	Often	13	13	460	17	40	16	4,357	17	1.9	2.0	08	2.0	08	2.0	08
class		4	Very often	6	6	175	7	19	8	1,551	6							
			Total	101	100	2,688	100	247	100	25,425	100							
d. Discussed your	SFperform	1	Never	21	21	691	26	75	30	7,068	28							
academic performance		2	Sometimes	53	52	1,301	48	103	42	12,173	48							
with a faculty member		3	Often	19	19	516	19	48	19	4,615	18	2.1	2.1	.08	2.1	.09	2.0	.13
		4	Very often	8	8	180	7	21	9	1,564	6							
			Total	101	100	2,688	100	247	100	25,420	100							
4. During the current scl	hool vear, hov	w much l	has vour coursework e	mphasized th	e follo	owing?												
a. Memorizing course	memorize	1	Very little	7	7	104	4	11	4	1,094	4							
material		2	Some	30	29	792	29	71	29	7,764	30							
		3	Quite a bit	37	36	1,219	45	104	42	11,714	46	2.8	2.8	.00	2.9	03	2.8	.05
		4	Very much	28	27	575	21	60	24	4,924	19	210	2.0		2.0	100	2.0	100
			Total	102	100	2,690	100	246	100	25,496	100							
b. Applying facts,	HOapply	1	Very little	5	5		3	4	2	654	3							
theories, or methods to	11.5	2	Some	19	19	536	20	49	20	4,714	19							
practical problems or		- 3	Quite a bit	45	44	1,239	46	91	37	12,093	47	3.0	3.1	02	3.2	18	3.1	05
new situations		4	Very much	33	32	,	31	103	42	8,013	31	2.0	5.1	02	5.2	10	5.1	05
			Total	102	100	2,690	100	247	100	25,474	100							
c. Analyzing an idea,	HOanalyze	1	Very little	6	6	,	4	8	3	872	3							
experience, or line of	,,	2	Some	31	31	685	26	49	20	6,158	24							
reasoning in depth by		- 3	Ouite a bit	41	41	1,140	42	96	39	11,396	45	2.8	2.9	17	3.1 **	37	3.0 *	20
examining its parts		4	Very much	23	23	,	28	94	38	7,000	28	2.0	2.9	17	5.1	57	∇	20
		+	Total	101	100	2.683	100	247	100	25,426	100				•		v	
d. Evaluating a point of	HOevaluate	1	Very little	101	11	154	6	9	4	1,702	7							
view, decision, or		2	Some	35	35		31	76	31	7,976	31							
information source		3	Ouite a bit	36	36		42	96	39	10,665	42	2.6	2.8	19	2.9 *	29	2.8	15
		4	Very much	19	19	561	21	64	26	5,070	20	2.0	2.0	19	2.9 .	29	2.0	13
		4	Total	19	100	2.677	100	245	100	25,413	100				v			
			TOIDI	101	100	2,077	100	243	100	25,415	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	lents ^a in					Frequen	cy D	istribution	S				St	atistical	Comparis	sons ^k		
Engineering														Your f	first-year stud	ents compo	ared with	
0 0				Tennessee -	Toch	Cornogio Cl	200	THEC Peer G	roup	NSSE 2016 2017	٥&	Tennessee Tech	Carneg	io Class	THEC Pee	r Group	NSSE 2016	8. 2017
Item wording	Variable			Termessee	Tech	Carriegie Cia	d55	THEC PEELO	loup	2017		Tennessee Teen	Carrieg	Effect	THEC Pee	Effect	N33E 2010	Effect
or description	name'	Values [*]	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
e. Forming a new idea or	HOform	1	Very little	3	3	145	5	6	2	1,281	5							
understanding from		2	Some	28	27	813	30	69	28	7,205	28							
various pieces of information		3	Quite a bit	43	42	1,129	42	95	38	11,396	45	2.9	2.8	.16	3.0	05	2.8	.13
mornation		4	Very much	28	27	596	22	77	31	5,548	22							
			Total	102	100	2,683	100	247	100	25,430	100							
5. During the current scl	hool year, to v	vhat exte	ent have your instruct	ors done the f	ollow	ing?												
a. Clearly explained	ETgoals	1	Very little	2	2	59	2	5	2	566	2							
course goals and		2	Some	16	16	527	20	35	14	5,173	20							
requirements		3	Quite a bit	48	48	1,250	47	101	41	12,234	48	3.1	3.1	.10	3.2	13	3.0	.13
		4	Very much	35	35	847	32	106	43	7,519	29							
			Total	101	100	2,683	100	247	100	25,492	100							
b. Taught course sessions	ETorganize	1	Very little	2	2	87	3	5	2	733	3							
in an organized way		2	Some	20	20	530	20	42	17	5,118	20							
		3	Quite a bit	42	42	1,257	47	107	43	12,272	48	3.1	3.0	.11	3.2	05	3.0	.13
		4	Very much	37	37	810	30	93	38	7,338	29							
			Total	101	100	2,684	100	247	100	25,461	100							
c. Used examples or	ETexample	1	Very little	2	2	91	3	8	3	765	3							
illustrations to explain		2	Some	17	17	560	21	48	19	5,217	20							
difficult points		3	Quite a bit	43	42	1,165	43	92	37	11,464	45	3.2	3.0	.17	3.1	.05	3.0	.17
		4	Very much	40	39	866	32	99	40	8,006	31							
			Total	102	100	2,682	100	247	100	25,452	100							
d. Provided feedback on a	ETdraftfb	1	Very little	6	6	246	9	25	10	2,433	10							
draft or work in		2	Some	35	34	819	31	68	28	8,018	32							
progress		3	Quite a bit	43	42	1,022	38	91	37	9,229	36	2.7	2.7	02	2.8	07	2.7	01
		4	Very much	18	18	594	22	63	26	5,773	23							
			Total	102	100	2,681	100	247	100	25,453	100							
e. Provided prompt and	ETfeedback	1	Very little	3	3	209	8	16	7	2,136	8							
detailed feedback on		2	Some	27	26	844	32	75	30	8,253	32							
tests or completed		3	Quite a bit	45	44	1,058	39	94	38	9,981	39	2.9	2.7 *	.23	2.8	.15	2.7 **	.27
assignments		4	Very much	27	26	568	21	61	25	5,028	20		Δ				Δ	
			Total	102	100	2,679	100	246	100	25,398	100							
						,				· · ·								



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

First-Year Stu	udents ^a in					Frequer	ncy D	Distribution	S				Sta	atistical	Comparis	ons ^k		
Engineering										NSSE 2016	5.&			Your j	first-year stude	nts compo	ared with	
				Tennessee 1	Гech	Carnegie Cl	ass	THEC Peer G	roup	2017		Tennessee Tech	Carneg	ie Class	THEC Peer	Group	NSSE 2016	5 & 2017
Item wording or description	Variable name ¹	Values ⁿ	^a Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
6. During the current					70	count	,,,	count	70	count	,,,		mean	5,20	mean	5/20	mean	5,20
a. Reached conclusions	QRconclude	1	Never	8	8	160	6	15	6	1,562	6							
based on your own		2	Sometimes	34	33	837	31	66	27	7,574	30							
analysis of numerical		3	Often	45	44	1,093	41	103	42	10,856	43	2.7	2.8	16	2.9 *	25	2.8	16
information (numbers,		4	Very often	15	15	594	22	63	26	5,424	21				∇			
graphs, statistics, etc.)			Total	102	100	2,684	100	247	100	25,416	100				•			
b. Used numerical	QRproblem	1	Never	25	25	528	20	39	16	5,135	20							
information to examine		2	Sometimes	46	45	1,068	40	93	38	10,036	39							
a real-world problem of	or	3	Often	23	23	726	27	72	29	7,195	28	2.1	2.3 *	22	2.5 **	36	2.3 *	20
issue (unemployment,		4	Very often	8	8	360	13	41	17	3,052	12		V		X		V	.20
climate change, public health, etc.)			Total	102	100	2,682	100	245	100	25,418	100		•		•		v	
ileanii, etc.)			Total	102	100	2,002	100	245	100	23,410	100							
c. Evaluated what others	QRevaluate	1	Never	19	19	429	16	51	21	3,785	15							
have concluded from		2	Sometimes	46	46	1,107	41	92	37	10,636	42							
numerical information		3	Often	28	28	832	31	73	30	8,205	32	2.2	2.4 *	20	2.3	14	2.4 *	21
		4	Very often	6	6	316	12	31	13	2,814	11		∇				∇	
			Total	99	100	2,684	100	247	100	25,440	100							
7. During the current	school year, about	how 1	nany papers, reports,	or other writ	ing ta	sks of the fol	lowi	ng lengths ha	ve you	ı been assig	ned?	Include those not	yet comp	leted.)				
a. Up to 5 pages	wrshortnum	0	None	16	16	162	6	33	13	1,815	7							
	(Recoded version	1.5	1-2	27	26	541	20	57	23	5,623	22							
	of wrshort created	4	3-5	32	31	924	34	82	33	8,365	33							
	by NSSE. Values	8	6-10	18	18	599	22	46	19	5,474	22	4.3	6.4 ***	*37	5.0	15	6.1 ***	•32
	are estimated	13	11-15	7	7	202	8	13	5	2,095	8		▼				▼	
	number of papers, reports, etc.)	18	16-20	2	2	119	4	8	3	920	4							
	reports, etc.)	23	More than 20	0	0	134	5	6	2	1,099	4							
			Total	102	100	2,681	100	245	100	25,391	100							
b. Between 6 and 10	wrmednum	0	None	62	61	1,061	40	140	58	9,894	39							
pages	(Recoded version	1.5	1-2	31	30	956	36	61	25	9,594	38							
	of wrmed created	4	3-5	6	6	404	15	27	11	3,735	15							
	by NSSE. Values	8	6-10	3	3	155	6	8	3	1,377	5	.9	2.0 ***	*36	1.4	18	2.0 ***	*35
	are estimated	13	11-15	0	0	37	1	3	1	349	1		▼				•	
	number of papers,	18	16-20	0	0	14	1	0	0	90	0							
	reports, etc.)	23	More than 20	0	0	12	0	1	0	129	1							
			Total	102	100	2,639	100	240	100	25,168	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

First-Year Stu	udents ^a in					Frequer	ncy D	istribution	IS				Sta	tistical	Comparis	ons ^k		
Engineering														Your f	ïrst-year stude	nts compo	ared with	
				Tennessee 1	Toch	Corpogio C	lacc	THEC Peer G	roup	NSSE 2016 2017	5&	Tennessee Tech	Carnegie	Class	THEC Peer	Group	NSSE 2016	8. 2017
Item wording	Variable			TEIMESSEE	ecn	Carriegie C	1833	THEC FEEL O	Toup	2017			Carriegie	Effect	THEC FEEL	Effect	N33L 2010	Effect
or description	name'	Values [*]	" Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
c. 11 pages or more	wrlongnum	0	None	96	94	2,037	77	213	88	19,219	77							
	(Recoded version	1.5	1-2	5	5	377	14	15	6	4,041	16							
	of wrlong created	4	3-5	1	1	116	4	5	2	819	3							
	by NSSE. Values	8	6-10	0	0	53	2	2	1	502	2	.1	.9 ***	29	.7 **	23	.8 ***	28
	are estimated number of papers,	13	11-15	0	0	31	1	3	1	258	1		∇		∇		∇	
	reports, etc.)	18	16-20	0	0	8	0	0	0	74	0							
	• • •	23	More than 20	0	0	15	1	3	1	115	0							
			Total	102	100	2,637	100	241	100	25,028	100							
Estimated number of	wrpages																	
assigned pages of												22.0	47.7 ***	40	33.9 *	22	45.7 ***	38
student writing.			ded and summed by NSSE												V		▼	
	from wrshort, wrm estimated pages of		-										•		v		•	
		0																
8. During the current	•	it how o	•															
a. People of a race or	DDrace	1	Never	2	2	144	5	12	5	1,250	5							
ethnicity other than your own		2	Sometimes	30	29	685	25	51	21	6,250	25							
your own		3	Often	36	35	876	33	79	32	8,214	32	3.0	3.0	.00	3.1	14	3.0	05
		4	Very often	34	33	982	37	106	43	9,795	38							
			Total	102	100	2,687	100	248	100	25,509	100							
b. People from an	DDeconomic	1	Never	1	1	141	5	14	6	1,201	5							
economic background other than your own		2	Sometimes	23	23	684	25	55	22	6,021	24							
other than your own		3	Often	44	43	949	35	76	31	9,345	37	3.1	3.0	.12	3.1	.01	3.0	.08
		4	Very often	34	33	909	34	102	41	8,891	35							
			Total	102	100	2,683	100	247	100	25,458	100							
c. People with religious	DDreligion	1	Never	3	3	185	7	13	5	1,786	7							
beliefs other than your		2	Sometimes	31	30	757	28	74	30	6,433	25							
own		3	Often	38	37	862	32	67	27	8,201	32	2.9	2.9	.02	3.0	05	3.0	03
		4	Very often	30	29	885	33	94	38	9,055	36							
			Total	102	100	2,689	100	248	100	25,475	100							
d. People with political	DDpolitical	1	Never	3	3	181	7	15	6	1,517	6							
views other than your		2	Sometimes	27	26	712	26	64	26	6,774	27							
own		3	Often	37	36	908	34	77	31	8,469	33	3.0	2.9	.10	3.0	.03	3.0	.07
		4	Very often	35	34	887	33	91	37	8,727	34							
			Total	102	100	2,688	100	247	100	25,487	100							
-												-					DEDODT DAD	



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	dents ^ª in				Frequer	ncy [Distribution	IS				St	atistical	Comparis	sons ^k			
Engineering										NSSE 2016	5&			Your f	first-year stud	ents comp	ared with	
				Tennessee 1	Tech	Carnegie Cl	ass	THEC Peer G	roup	2017		Tennessee Tech	Carneg	ie Class	THEC Pee	er Group	NSSE 2016	5 & 2017
Item wording or description	Variable name ^I	Values'	^a Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
9. During the current so																		
a. Identified key	LSreading	1	Never	3	3	77	3	7	3	639	3							
information from		2	Sometimes	28	27	692	26	55	22	6,425	25							
reading assignments		3	Often	48	47	1,290	48	109	44	12,352	48	2.9	2.9	03	3.0	17	2.9	06
		4	Very often	23	23	629	23	76	31	6,067	24							
			Total	102	100	2,688	100	247	100	25,483	100							
b. Reviewed your notes	LSnotes	1	Never	4	4	115	4	11	4	1,402	6							
after class		2	Sometimes	27	26	875	33	59	24	8,385	33							
		3	Often	36	35	952	36	78	32	9,191	36	3.0	2.9	.16	3.1	08	2.8 *	.21
		4	Very often	35	34	736	27	99	40	6,503	26						Δ	
			Total	102	100	2,678	100	247	100	25,481	100							
c. Summarized what you	LSsummary	1	Never	5	5	195	7	11	5	1,794	7							
learned in class or from		2	Sometimes	27	27	878	33	75	31	8,781	35							
course materials		3	Often	50	50	1,035	39	88	36	9,704	38	2.8	2.7	.10	2.9	08	2.7	.12
		4	Very often	19	19	564	21	70	29	5,134	20							
			Total	101	100	2,672	100	244	100	25,413	100							
10. During the current	school year, to	what ex	tent have your courses	s challenged y	ou to	do your best	t wor	·k?										
	challenge	1	Not at all	1	1	30	1	4	2	234	1							
		2		1	1	39	1	3	1	336	1							
		3		1	1	137	5	8	3	1,145	4							
		4		12	12	319	12	21	9	2,811	11	5.5	5.4	.08	5.6	10	5.4	.02
		5		36	35	903	34	76	31	8,157	32							
		6		34	33	712	27	65	26	7,258	29							
		7	Very much	17	17	543	20	70	28	5,525	22							
			Total	102	100	2,683	100	247	100	25,466	100							
11. Which of the follow	ing have you de	one or d	o you plan to do befor	e you gradua	te?°													
a. Participate in an	intern		Have not decided	8	8	268	10	26	11	2,462	10							
internship, co-op, field	(Means indicate		Do not plan to do	6	6	120	4	8	3	1,032	4							
experience, student teaching, or clinical	the percentage		Plan to do	83	83	2,120	79	192	78	20,054	79	3%	7%	18	9%	24	8%	21
placement	who responded		Done or in progress	3	3	183	7	21	9	1,962	8							
L	"Done or in progress.")		Total	100	100	2,691	100	247	100	25,510	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

First-Year Stu	dents ^a in				Frequen	ncy D	istribution	S				Sta	itistical	Compariso	ons ^k		
Engineering													Your f	ïrst-year studen	ts compa	ired with	
0 0			Tennessee 1	Геch	Carnegie Cl	ass	THEC Peer G	roup	NSSE 2016 2017	5&	Tennessee Tech	Carnegie	e Class	THEC Peer	Group	NSSE 2016	& 2017
Item wording	Variable												Effect		Effect		Effect
or description	name'	Values ^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
b. Hold a formal	leader	Have not decided	26	25		29	67	27	6,898	27							
leadership role in a student organization or	(Means indicate	Do not plan to do	27	26		24	61	25	5,689	22							
group	the percentage	Plan to do	46	45		37	92	37	10,060	39	3%	10% *	30	11% *	34	11% **	33
	who responded "Done or in	Done or in progress	3	3	273	10	28	11	2,827	11		▼		▼		▼	
	progress.")	Total	102	100	2,687	100	248	100	25,474	100							
c. Participate in a learning	learncom	Have not decided	38	37	905	34	72	29	8,097	32							
community or some	(Means indicate	Do not plan to do	27	26	710	27	58	23	7,245	28							
other formal program where groups of	the percentage	Plan to do	32	31	707	26	56	23	6,368	25	5%	13% *	30	25% ***	60	15% **	34
students take two or	who responded	Done or in progress	5	5	357	13	62	25	3,740	15		•		V		▼	
more classes together	"Done or in progress.")	Total	102	100	2,679	100	248	100	25,450	100							
d. Participate in a study	abroad	Have not decided	30	29	844	31	71	29	7,333	29							
abroad program	(Means indicate	Do not plan to do	51	50	903	34	82	33	8,275	32							
	the percentage	Plan to do	20	20	871	32	89	36	9,111	36	1%	3%	12	2%	11	3%	15
	who responded	Done or in progress	1	1	69	3	6	2	748	3							
	"Done or in progress.")	Total	102	100	2,687	100	248	100	25,467	100							
e. Work with a faculty	research	Have not decided	43	42	1,123	42	101	41	9,667	38							
member on a research	(Means indicate	Do not plan to do	19	19	470	18	45	18	3,979	16							
project	the percentage	Plan to do	36	35	995	37	85	34	10,507	41	4%	4%	.02	7%	13	5%	06
	who responded	Done or in progress	4	4	97	4	17	7	1,293	5							
	"Done or in progress.")	Total	102	100	2,685	100	248	100	25,446	100							
f. Complete a culminating	capstone	Have not decided	33	32	794	30	78	32	6,873	27							
senior experience	(Means indicate	Do not plan to do	4	4	242	9	16	6	1,861	7							
(capstone course, senior project or thesis,	the percentage	Plan to do	64	63	1,596	59	146	59	16,239	64	1%	2%	08	3%	14	2%	08
comprehensive exam,	who responded	Done or in progress	1	1	53	2	7	3	479	2							
portfolio, etc.)	"Done or in progress.")	Total	102	100	2,685	100	247	100	25,452	100							
12. About how many of	•	this institution have inclue		·			0,	22	12 (00	54							
	servcourse	1 None 2 Some	64 35	63 34	1,353 1,102	51 41	81 138	33 56	13,690 9,771	54 38							
		2 Some 3 Most	35	34 3	, -	41	138 25	56 10	9,771 1,586	38 6	1.4	1.6 ***	28	1.8 ***	63	1.6 **	22
		4 All	3	0		2	23	10	371	1	1.7	1.6 ····· ▼	20	1.8 ****	05	1.6 *** V	22
		4 All Total	102	100		100	247	100	25,418	100		v		•		v	
		1000	102	100	2,070	100	241	100	23,710	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	ıdents ^a in					Frequer	ncy D	istributior	IS				St	atistica	l Comparis	sons ^k		
Engineering										NSSE 2016	5&			Your	first-year stud	ents compo	ared with	
				Tennessee 1	Tech	Carnegie C	lass	THEC Peer G	roup	2017		Tennessee Tech	Carneg	gie Class	THEC Pee	r Group	NSSE 201	.6 & 2017
Item wording or description	Variable name ¹	Values	^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
13. Indicate the quality							70	count	70	count	70	mean	wican	5120	Wican	5120	mean	5/20
a. Students	QIstudent	1		1	1	41	2	2	1	337	1							
		2		3	3	55	2	6	2	457	2							
		3		1	1	130	5	12	5	1,188	5							
		4		17	17	346	13	25	10	2,869	11							
		5		27	26	736	27	63	26	6,669	26	5.4	5.4	.01	5.5	08	5.5	05
		6		31	30	718	27	70	28	7,207	28							
		7	Excellent	22	22	646	24	67	27	6,574	26							
		_	Not applicable	0	0	19	1	2	1	221	1							
			Total	102	100	2,691	100	247	100	25,522	100							
b. Academic advisors	QIadvisor	1	Poor	3	3	73	3	8	3	797	3							
		2		6	6	110	4	10	4	1,148	5							
		3		5	5	192	7	28	11	1,916	8							
		4		12	12	349	13	40	16	3,560	14							
		5		13	13	514	19	40	16	5,339	21	5.5	5.3	.10	5.1 *	.24	5.2	.19
		6		24	24	588	22	54	22	5,457	21				Δ			
		7	Excellent	39	38	809	30	62	25	6,618	26							
		_	Not applicable	0	0	53	2	6	2	661	3							
			Total	102	100	2,688	100	248	100	25,496	100							
c. Faculty	QIfaculty	1	Poor	1	1	45	2	5	2	406	2							
		2		2	2	91	3	10	4	703	3							
		3		5	5	159	6	19	8	1,526	6							
		4		10	10	392	15	32	13	3,639	14							
		5		23	23	712	27	55	22	6,738	26	5.5	5.2	.17	5.3	.16	5.3	.15
		6		42	41	725	27	68	27	6,957	27							
		7	Excellent	18	18	525	20	57	23	5,170	20							
		_	Not applicable	1	1	34	1	2	1	306	1							
			Total	102	100	2,683	100	248	100	25,445	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

First-Year Stud	lents ^a in					Frequen	ncy D	istribution	S				St	atistical	Comparis	sons ^k		
Engineering														Your j	first-year stud	ents compo	ared with	
				Tennessee 1	Tach	Carpogia Cl	200	THEC Peer Gr		NSSE 2016 2017	5&	Tennessee Tech	Carpon	ie Class	THEC Pee	r Group	NSSE 201	6 8 2017
	Variable			Tennessee	ecn	Carriegie Ci	d55	THEC Peer Gr	oup	2017		Termessee Tech	Carneg	Effect	THEC Pee	Effect	IN22E 201	Effect
Item wording or description	name ¹	Values [*]	" Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size"
d. Student services staff	QIstaff	1	Poor	3	3	100	4	13	5	872	3							
(career services,		2		4	4	100	4	13	5	893	4							
student activities,		3		5	5	178	7	23	9	1,717	7							
housing, etc.)		4		7	7	353	13	30	12	3,401	13							
		5		26	25	586	22	50	20	5,641	22	5.3	5.1	.16	4.9	.22	5.1	.13
		6		33	32	551	21	53	21	5,553	22							
		7	Excellent	19	19	492	18	50	20	4,842	19							
		_	Not applicable	5	5	323	12	15	6	2,531	10							
			Total	102	100	2,683	100	247	100	25,450	100							
e. Other administrative	QIadmin	1	Poor	3	3	111	4	19	8	973	4							
staff and offices		2		5	5	130	5	12	5	1,078	4							
(registrar, financial aid,		3		6	6	205	8	27	11	1,802	7							
etc.)		4		15	15	360	13	26	10	3,678	14							
		5		29	29	604	22	52	21	5,614	22	5.1	5.0	.06	4.8	.16	5.0	.04
		6		22	22	537	20	65	26	5,428	21							
		7	Excellent	20	20	510	19	41	17	4,674	18							
		_	Not applicable	1	1	228	8	6	2	2,236	9							
			Total	101	100	2,685	100	248	100	25,483	100							
14. How much does your	· institution en	nphasize	e the following?															
a. Spending significant	empstudy	1	Very little	1	1	39	1	2	1	363	1							
amounts of time		2	Some	16	16	440	16	42	17	3,742	15							
studying and on		3	Quite a bit	54	54	1,296	48	106	43	11,808	46	3.1	3.1	05	3.2	13	3.2	12
academic work		4	Very much	29	29	911	34	97	39	9,573	38							
			Total	100	100	2,686	100	247	100	25,486	100							
b. Providing support to	SEacademic	1	Very little	3	3	82	3	5	2	745	3							
help students succeed		2	Some	20	20	537	20	52	21	4,669	18							
academically		3	Quite a bit	50	50	1,179	44	93	38	11,350	45	3.0	3.1	07	3.1	16	3.1	11
		4	Very much	27	27	876	33	95	39	8,638	34							
			Total	100	100	2,674	100	245	100	25,402	100							
c. Using learning support	SElearnsup	1	Very little	4	4	132	5	15	6	1,206	5							
services (tutoring		2	Some	21	21	448	17	33	13	4,302	17							
services, writing		3	Quite a bit	37	37	1,096	41	94	38	10,179	40	3.1	3.1	01	3.2	08	3.1	02
center, etc.)		4	Very much	39	39	1,009	38	105	43	9,740	38							
			Total	101	100	2,685	100	247	100	25,427	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	dents ^a in					Frequen	cy D	istribution	s				St	atistical	Comparis	ons ^k		
Engineering											_			Your f	ïrst-year stude	ents compo	ared with	
0 0				T	T a a la	Composio Ch				NSSE 2016 2017	8	Tennessee Tech	C			Casar	NCCE 201	C 8 2017
Item wording	Variable			Tennessee 1	lech	Carnegie Cia	ass	THEC Peer G	roup	2017		Tennessee Tech	Carneg	Effect	THEC Pee	Effect	NSSE 201	6 & 2017 Effect
or description	name'	Values [*]	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
d. Encouraging contact	SEdiverse	1	Very little	13	13	303	11	27	11	2,763	11							
among students from		2	Some	29	29	781	29	73	30	7,274	29							
different backgrounds (social, racial/ethnic,		3	Quite a bit	44	44	982	37	81	33	9,104	36	2.6	2.7	11	2.8	16	2.7	15
religious, etc.)		4	Very much	15	15	614	23	66	27	6,306	25							
U , <i>j</i>			Total	101	100	2,680	100	247	100	25,447	100							
e. Providing opportunities	SEsocial	1	Very little	3	3	170	6	16	7	1,452	6							
to be involved socially		2	Some	27	27	628	23	55	23	5,981	24							
		3	Quite a bit	50	50	1,123	42	89	36	10,581	42	2.9	2.9	06	3.0	13	2.9	08
		4	Very much	20	20	756	28	84	34	7,420	29							
			Total	100	100	2,677	100	244	100	25,434	100							
f. Providing support for	SEwellness	1	Very little	6	6	202	8	22	9	1,609	6							
your overall well-being		2	Some	28	28	618	23	49	20	5,775	23							
(recreation, health care, counseling, etc.)		3	Quite a bit	40	40	1,084	40	91	37	10,516	41	2.9	2.9	05	3.0	11	2.9	09
counseiing, etc.)		4	Very much	26	26	774	29	84	34	7,510	30							
			Total	100	100	2,678	100	246	100	25,410	100							
g. Helping you manage	SEnonacad	1	Very little	27	27	568	21	46	19	5,227	21							
your non-academic		2	Some	34	34	987	37	90	37	9,676	38							
responsibilities (work,		3	Quite a bit	28	28	806	30	63	26	7,277	29	2.2	2.3	10	2.4	20	2.3	11
family, etc.)		4	Very much	11	11	317	12	43	18	3,261	13							
			Total	100	100	2,678	100	242	100	25,441	100							
h. Attending campus	SEactivities	1	Very little	8	8	279	10	21	9	2,332	9							
activities and events		2	Some	36	36	725	27	60	24	6,996	28							
(performing arts,		3	Quite a bit	37	37	1,063	40	88	36	10,067	40	2.7	2.7	08	2.9 *	24	2.8	12
athletic events, etc.)		4	Very much	19	19	608	23	76	31	6,026	24				∇			
			Total	100	100	2,675	100	245	100	25,421	100							
i. Attending events that	SEevents	1	Very little	17	17	452	17	45	19	3,841	15							
address important		2	Some	40	40	978	37	76	31	9,154	36							
social, economic, or		3	Quite a bit	31	31	834	31	74	31	8,426	33	2.4	2.4	07	2.5	13	2.5	12
political issues		4	Very much	12	12	410	15	47	19	3,987	16							
			Total	100	100	2,674	100	242	100	25,408	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	dents ^a in					Frequer	ncy D	istribution	S				St	atistical	Comparis	sons ^k		
Engineering														Your j	first-year stud	ents compo	ired with	
				_						NSSE 2016	5&					_		
				Tennessee 1	Fech	Carnegie Cl	ass	THEC Peer G	roup	2017		Tennessee Tech	Carneg	gie Class	THEC Pee		NSSE 201	
Item wording or description	Variable name ^I	Values ⁿ	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
15. About how many h						count	70	count	70	count	70	mean	wican	5/20	Wiedin	5120	Wiedin	5120
a. Preparing for class	tmprephrs	0	0 hrs	1	1	10	0	3	1	111	0							
(studying, reading,	(Recoded version	3	1-5 hrs	9	9	305	11	27	11	2,270	9							
writing, doing	of tmprep created	8	6-10 hrs	24	24	562	21	63	26	4,778	19							
homework or lab work, analyzing data,	by NSSE. Values	13	11-15 hrs	21	21	564	21	43	17	5,356	21							
rehearsing, and other	are estimated	18	16-20 hrs	21	21	526	20	44	18	5,173	20	15.3	15.5	03	15.4	01	16.5	14
academic activities)	number of hours	23	21-25 hrs	11	11	335	12	24	10	3,543	14							
	per week.)	28	26-30 hrs	8	8	176	7	20	8	1,988	8							
		33	More than 30 hrs	6	6	210	8	23	9	2,280	9							
			Total	101	100	2,688	100	247	100	25,499	100							
b. Participating in co-	tmcocurrhrs	0	0 hrs	28	28	913	34	84	34	7,484	29							
curricular activities	(Recoded version	3	1-5 hrs	38	38	859	32	82	33	8,728	34							
(organizations, campus publications, student	of tmcocurr	8	6-10 hrs	19	19	419	16	30	12	4,404	17							
government, fraternity	created by NSSE.	13	11-15 hrs	7	7	239	9	22	9	2,430	10							
or sorority,	Values are	18	16-20 hrs	2	2	127	5	12	5	1,252	5	5.6	5.5	.02	5.8	02	5.7	02
intercollegiate or	estimated number of hours per	23	21-25 hrs	2	2	54	2	5	2	606	2							
intramural sports, etc.)	week.)	28	26-30 hrs	2	2	26	1	4	2	209	1							
		33	More than 30 hrs	2	2	44	2	6	2	322	1							
			Total	100	100	2,681	100	245	100	25,435	100							
c. Working for pay	tmworkonhrs	0	0 hrs	77	76	2,168	81	209	85	20,183	79							
on campus	(Recoded version	3	1-5 hrs	7	7	88	3	7	3	947	4							
	of tmworkon	8	6-10 hrs	10	10	152	6	8	3	1,733	7							
	created by NSSE.	13	11-15 hrs	2	2	122	5	7	3	1,225	5							
	Values are	18	16-20 hrs	4	4	104	4	10	4	865	3	2.3	2.3	01	2.1	.04	2.4	03
	estimated number of hours per	23	21-25 hrs	0	0	30	1	4	2	254	1							
	week.)	28	26-30 hrs	0	0	6	0	0	0	65	0							
	<i>,</i>	33	More than 30 hrs	1	1	14	1	2	1	195	1							
			Total	101	100	2,684	100	247	100	25,467	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	idents ^a in					Frequen	icy D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering														Your f	irst-year stude	ents compo	ared with	
				_						NSSE 2016	5&		_			_		
				Tennessee 1	Гесh	Carnegie Cla	ass	THEC Peer G	roup	2017		Tennessee Tech	Carneg		THEC Pee		NSSE 201	
Item wording or description	Variable name ¹	Values'	" Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
d. Working for pay	tmworkoffhrs	0	0 hrs	83	82	1,961	73	186	75	19,489	77	Wiedn	mean	5120	Wiedin	5120	Wicun	5120
off campus	(Recoded version	3	1-5 hrs	3	3	106	4	7	3	959	4							
	of tmworkoff	8	6-10 hrs	4	4	122	5	7	3	1,070	4							
	created by NSSE.	13	11-15 hrs	4	4	114	4	10	4	1,004	4							
	Values are	18	16-20 hrs	2	2	115	4	11	4	1,028	4	2.7	4.6 *	21	4.7 *	22	3.8	13
	estimated number	23	21-25 hrs	1	1	89	3	9	4	698	3		V		∇			
	of hours per week.)	28	26-30 hrs	2	2	51	2	4	2	336	1		•		•			
	weeк.)	33	More than 30 hrs	2	2	125	5	13	5	873	3							
			Total	101	100	2,683	100	247	100	25,457	100							
Estimated number of	tmworkhrs																	
hours working for pay	(Continuous																	
	variable created											5.0	7.0 *	18	6.7	16	6.2	12
	by NSSE)												∇					
e. Doing community service or volunteer	tmservicehrs	0	0 hrs	53	53	1,672	62	125	51	16,150	64							
work	(Recoded version	3	1-5 hrs	34	34	722	27	92	37	6,838	27							
work	of tmservice	8	6-10 hrs	8	8	135	5	18	7	1,186	5							
	created by NSSE. Values are	13	11-15 hrs	1	1	73	3	5	2	591	2	27					• •	
	estimated number	18	16-20 hrs	2	2	42	2	4	2	340	1	2.7	2.2	.10	2.6	.02	2.0	.14
	of hours per	23	21-25 hrs	1	1	16	1	2	1	170	1							
	week.)	28	26-30 hrs	1	1	6	0	0	0	42	0							
		33	More than 30 hrs	0	0	13	0	1	0	97	0							
f Delemine and		0	Total	100	100	2,679	100	247	100	25,414	100							
f. Relaxing and socializing (time with	tmrelaxhrs		0 hrs	3	3	59	2	5	2	489	2							
friends, video games,	(Recoded version	3	1-5 hrs	16	16	518	19	57	23	4,937	19							
TV or videos, keeping	of tmrelax created	8	6-10 hrs	32	32	651	24	56	23	6,732	26							
up with friends online,	by NSSE. Values are estimated	13	11-15 hrs	23	23	557	21	44	18	5,425	21	12.5	10.0	00	12.0	0.5	12.0	02
etc.)	number of hours	18	16-20 hrs	11	11	389	15	36	15	3,548	14	12.5	13.2	08	13.0	05	12.8	03
	per week.)	23	21-25 hrs	6	6	173	6	14	6	1,670	7							
	- /	28	26-30 hrs	2	2	90	3	7	3	767	3							
		33	More than 30 hrs	8	8	238	9	24	10	1,877	7							
			Total	101	100	2,675	100	243	100	25,445	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	dents ^a in					Frequen	cy D	istribution	S				Sta	atistical	Comparis	sons ^k		
Engineering														Your f	irst-year stude	ents compo	ared with	
0 0				T				THECRESCO		NSSE 2016	5&	Tennessee Tech	6	Class	THEODA		NCCE 2010	0.2047
the second se	Variable			Tennessee 1	ecn	Carnegie Ci	ass	THEC Peer G	roup	2017		Tennessee Tech	Carnegi	Effect	THEC Pee	r Group Effect	NSSE 2016	Effect
Item wording or description	name ¹	Values [*]	^a Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size"	Mean	size ⁿ	Mean	size"
g. Providing care for	tmcarehrs	0	0 hrs	88	88	2,104	79	205	83	20,685	81							
dependents (children,	(Recoded version	3	1-5 hrs	5	5	254	9	14	6	2,068	8							
parents, etc.)	of tmcare created	8	6-10 hrs	4	4	104	4	12	5	913	4							
	by NSSE. Values	13	11-15 hrs	0	0	70	3	6	2	620	2							
	are estimated	18	16-20 hrs	2	2	44	2	3	1	390	2	1.2	2.3 *	18	1.9	13	2.0	14
	number of hours	23	21-25 hrs	0	0	27	1	0	0	213	1		∇					
	per week.)	28	26-30 hrs	0	0	8	0	1	0	80	0							
		33	More than 30 hrs	1	1	64	2	5	2	425	2							
			Total	100	100	2,675	100	246	100	25,394	100							
h. Commuting to campus	tmcommutehrs	0	0 hrs	52	51	1,127	42	94	39	10,929	43							
(driving, walking, etc.)	(Recoded version	3	1-5 hrs	39	39	965	36	107	44	9,183	36							
	of tmcommute	8	6-10 hrs	5	5	345	13	28	11	3,099	12							
	created by NSSE.	13	11-15 hrs	1	1	121	5	5	2	1,141	4							
	Values are	18	16-20 hrs	1	1	48	2	5	2	504	2	2.7	3.8	19	3.4	13	3.7	17
	estimated number of hours per	23	21-25 hrs	1	1	26	1	3	1	243	1			,				
	week.)	28	26-30 hrs	0	0	17	1	0	0	103	0							
		33	More than 30 hrs	2	2	35	1	2	1	275	1							
			Total	101	100	2,684	100	244	100	25,477	100							
16. Of the time you spe	nd preparing for	· class i	n a typical 7-day week	, about how	much	is on assigne	d rea	ding?										
	reading	1	Very little	28	28	559	21	76	31	5,016	20							
	6	2	Some	47	47	1,123	42	95	38	10,699	42							
		3	About half	18	18	623	23	49	20	6,023	24	2.1	2.3 **	27	2.1	08	2.4 ***	30
		4	Most	8	8	288	11	20	8	2,841	11		▼	.27	2.1	.00	∇	.50
		5	Almost all	0	0	91	3		3	889	3		•				•	
		5	Total	101	100	2,684	100	247	100	25,468	100							
						_,				,								
	tmreadinghrs																	
(Continuous vari	- able created by NSS	7 Calcu	lated as a proportion									4.7		. –				
of tmprephrs bas		e Very li	ttle=.10; Some=.25;									4.7	5.5	17	4.8	02	6.0 ** ∇	25
About	naıj=.30, mosi=.73	, Aimosi	uu90)														•	



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

First-Year Stu	udents ^a in					Frequer	ncy D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering														Your f	irst-year stude	nts compo	ared with	
				Tennessee 1	Tach	Cornogio Cl	200	THEC Peer G	roup	NSSE 2016 2017	&	Tennessee Tech	Carnegi	o Class	THEC Peer	Group	NSSE 201	- 9. 2017
Item wording	Variable			Tennessee	lecii	Carriegie Ci	d33	THEC Peel G	loup	2017		Termessee Teen	Carriegi	Effect	THECPEE	Effect	N33E 2010	Effect
or description	name ¹	Values [*]	" Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size ⁿ	Mean	size ⁿ
	tmreadinghrscol	1	0 hrs	1	1	10	0	3	1	109	0							
	(Collapsed version of tmreadinghrs	2	More than zero, up to 5 hrs	72	71	1,639	61	173	70	14,225	56							
	created by NSSE.)	3	More than 5, up to 10 hrs	20	20	676	25	45	18	7,161	28							
		4	More than 10, up to 15 hrs	2	2	171	6	13	5	2,004	8							
		5	More than 15, up to 20 hrs	3	3	102	4	6	2	1,056	4							
		6	More than 20, up to 25 hrs	3	3	58	2	5	2	596	2							
		7	More than 25 hrs	0	0	21	1	2	1	236	1							
			Total	101	100	2,677	100	247	100	25,387	100							
17. How much has you	ur experience at tl	nis insti	itution contributed to	your knowled	lge, sł	cills, and per	sonal	developmen	t in th	e following	areas	?						
a. Writing clearly and	pgwrite	1	Very little	19	19	276	10	35	14	3,027	12							
effectively		2	Some	32	32	818	30	65	27	8,084	32							
		3	Quite a bit	34	34	1,119	42	99	40	10,019	39	2.5	2.7 *	23	2.6	18	2.6	17
		4	Very much	16	16	471	18	46	19	4,345	17		∇					
			Total	101	100	2,684	100	245	100	25,475	100							
 b. Speaking clearly and effectively 	pgspeak	1	Very little	13	13	389	14	37	15	3,994	16							
checuvery		2	Some	42	42	890	33	75	30	8,684	34	2.5						
		3	Quite a bit	30	30	975	36	90	37	8,864	35	2.5	2.5	06	2.6	09	2.5	02
		4	Very much Total	16 101	16 100	433 2,687	16 100	44 246	18 100	3,927 25,469	15 100							
c. Thinking critically and	pgthink	1	Very little	5	5	2,087	4	3	100	960	4							
analytically	pgullik	2	Some	23	23	542	20	42	17	4,918	19							
		3	Quite a bit	40	40	1,174	44	42 90	37	11,176	44	3.0	3.0	05	3.3 **	32	3.1	08
		4	Very much	33	33	864	32	111	45	8,434	33	5.0	5.0	05	5.5	52	5.1	08
			Total	101	100	2,689	100	246	100	25,488	100				•			
d. Analyzing numerical	pganalyze	1	Very little	6	6	191	7	10	4	1,780	7							<u> </u>
and statistical	•	2	Some	29	29	695	26	56	23	6,116	24							
information		3	Quite a bit	32	32	1,066	40	94	38	10,068	40	2.9	2.9	.05	3.0	14	2.9	.01
		4	Very much	33	33	734	27	86	35	7,517	30							
			Total	100	100	2,686	100	246	100	25,481	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	dents ^a in					Frequen	cy D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering														Your f	ïrst-year stude	nts compo	ared with	
				T	Taala	Composito Clu				NSSE 2016 2017	5&	Tennessee Tech	C				NCCE 2010	C 8 2017
Item wording	Variable			Tennessee	lecn	Carnegie Cla	ass	THEC Peer G	roup	2017		Tennessee Tech	Carneg	Effect	THEC Pee	F Group Effect	NSSE 2016	Effect
or description	name ¹	Values [*]	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
e. Acquiring job- or work-	pgwork	1	Very little	11	11	333	12	27	11	3,063	12							
related knowledge and skills		2	Some	36	36	859	32	81	33	8,125	32							
SKIIIS		3	Quite a bit	34	34	935	35	86	35	8,880	35	2.6	2.6	02	2.7	04	2.7	03
		4	Very much	20	20	558	21	52	21	5,425	21							
			Total	101	100	2,685	100	246	100	25,493	100							
f. Working effectively	pgothers	1	Very little	7	7	191	7	16	7	1,761	7							
with others		2	Some	24	24	783	29	60	24	7,248	28							
		3	Quite a bit	50	50	1,089	41	91	37	10,297	40	2.8	2.8	.03	2.9	14	2.8	.00
		4	Very much	20	20	624	23	78	32	6,179	24							
			Total	101	100	2,687	100	245	100	25,485	100							
g. Developing or	pgvalues	1	Very little	16	16	371	14	33	13	3,704	15							
clarifying a personal		2	Some	35	34	864	32	71	29	7,845	31							
code of values and ethics		3	Quite a bit	33	32	935	35	89	36	8,782	34	2.5	2.6	08	2.7	14	2.6	09
of the s		4	Very much	18	18	513	19	53	22	5,152	20							
			Total	102	100	2,683	100	246	100	25,483	100							
h. Understanding people	pgdiverse	1	Very little	14	14	359	13	34	14	3,377	13							
of other backgrounds		2	Some	37	36	852	32	66	27	8,023	31							
(economic, racial/ethnic, political,		3	Quite a bit	36	35	911	34	78	32	8,776	34	2.5	2.6	12	2.7	23	2.6	12
religious, nationality,		4	Very much	15	15	558	21	68	28	5,301	21							
etc.)			Total	102	100	2,680	100	246	100	25,477	100							
i. Solving complex real-	pgprobsolve	1	Very little	15	15	292	11	21	9	2,831	11							
world problems		2	Some	35	34	831	31	64	26	7,999	31							
		3	Quite a bit	28	27	982	37	91	37	9,258	36	2.6	2.7	10	2.9 *	27	2.7	08
		4	Very much	24	24	578	22	70	28	5,399	21				∇			
			Total	102	100	2,683	100	246	100	25,487	100							
j. Being an informed and	pgcitizen	1	Very little	21	21	427	16	39	16	3,863	15							
active citizen		2	Some	42	41	964	36	78	32	8,860	35							
		3	Quite a bit	25	25	842	32	77	32	8,445	33	2.3	2.5	18	2.5 *	24	2.5 *	21
		4	Very much	14	14	440	16	47	20	4,245	17				∇		∇	
			Total	102	100	2,673	100	241	100	25,413	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	dents ^ª in					Freque	ncy Di	istributior	IS				Sta	atistical	l Compari	sons ^k		
Engineering														Yourj	first-year stud	lents comp	ared with	
Lingineering										NSSE 2016	5&							
				Tennessee -	ſech	Carnegie C	lass [.]	THEC Peer G	roup	2017		Tennessee Tech	Carneg	ie Class	THEC Pee	er Group	NSSE 2016	5 & 2017
Item wording	Variable													Effect		Effect		Effect
or description	name ¹	Values"	[®] Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size ⁿ	Mean	size "
18. How would you eval	uate your enti	ire educa	tional experience at th	nis institution	?													
	evalexp	1	Poor	3	3	72	3	3	1	549	2							
		2	Fair	9	9	366	14	31	13	3,175	12							
		3	Good	51	50	1,304	48	112	46	12,313	48	3.2	3.2	.09	3.3	04	3.2	.03
		4	Excellent	38	38	947	35	99	40	9,479	37							
			Total	101	100	2,689	100	245	100	25,516	100							
19. If you could start ov	er again, woul	ld you go	to the same institution	n you are no	v atte	nding?												
	sameinst	1	Definitely no	2	2	106	4	6	2	846	3							
		2	Probably no	6	6	333	12	36	15	2,866	11							
		3	Probably yes	44	43	1,203	45	93	38	11,121	44	3.4	3.2 *	.26	3.3	.17	3.2 *	.20
		4	Definitely yes	50	49	1,050	39	112	45	10,693	42		Δ				Δ	
			Total	102	100	2,692	100	247	100	25,526	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istributior	IS				St	atistical	Comparis	ons ^k		
Engineering															Your seniors co	mpared v	vith	
0 0				Tennessee T	Toch	Corpogio C	lacc	THEC Peer G	roup	NSSE 2016 2017	5 &	Tennessee Tech	Carpon	tie Class	THEC Peer	Group	NSSE 2016	5 8. 2017
Item wording	Variable			Tennessee	letii	Carriegie C	1055	THEC FEELO	Toup	2017			Carrieg	Effect	THEC FEEL	Effect	N33L 2010	Effect
or description	name'	Values ^{**}	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size "	Mean	size ⁿ
1. During the current	school year, abou	it how o	often have you done tl	ne following?														
a. Asked questions or	askquest	1	Never	6	4	119	4	7	2	1,250	4							
contributed to course		2	Sometimes	46	33	1,026	31	79	28	10,402	34							
discussions in other ways		3	Often	52	37	1,114	34	86	30	10,130	33	2.8	2.9	11	3.1 *	25	2.9	03
ways		4	Very often	36	26	1,052	32	110	39	9,003	29				∇			
			Total	140	100	3,311	100	282	100	30,785	100							
b. Prepared two or more	drafts	1	Never	36	26	812	25	45	16	7,853	26							
drafts of a paper or		2	Sometimes	49	35	1,226	37	91	33	11,493	37							
assignment before turning it in		3	Often	36	26	790	24	79	28	7,300	24	2.3	2.3	01	2.6 **	30	2.2	.02
turning it in		4	Very often	19	14	472	14	63	23	4,081	13				•			
			Total	140	100	3,300	100	278	100	30,727	100							
c. Come to class without	unpreparedr	1	Very often	5	4	194	6	21	7	2,041	7							
completing readings or	(Reverse-coded	2	Often	16	11	443	13	28	10	5,027	16							
assignments	version of	3	Sometimes	82	59	1,808	55	166	59	16,630	54	3.1	3.0	.09	3.0	.12	2.9 *	.18
	unprepared	4	Never	37	26	864	26	66	23	7,048	23						Δ	
	created by NSSE.)		Total	140	100	3,309	100	281	100	30,746	100							
d. Attended an art exhibit	, attendart	1	Never	69	50	1,735	52	148	53	14,662	48							
play, or other arts		2	Sometimes	49	35	1,139	34	91	33	11,533	37							
performance (dance,		3	Often	10	7	309	9	23	8	3,211	10	1.7	1.6	.11	1.7	.06	1.7	.02
music, etc.)		4	Very often	11	8	128	4	18	6	1,372	4							
			Total	139	100	3,311	100	280	100	30,778	100							
e. Asked another student	CLaskhelp	1	Never	6	4	412	12	20	7	2,839	9							
to help you understand		2	Sometimes	59	42	1,241	37	95	34	11,026	36							
course material		3	Often	44	31	1,026	31	105	37	10,055	33	2.7	2.6	.16	2.7	03	2.7	.04
		4	Very often	31	22	636	19	61	22	6,875	22							
			Total	140	100	3,315	100	281	100	30,795	100							
f. Explained course	CLexplain	1	Never	5	4	160	5	4	1	1,001	3							
material to one or more	2	2	Sometimes	33	24	1,012	31	67	24	8,697	28							
students		3	Often	63	45	1,272	38	110	39	12,357	40	3.0	2.9	.13	3.1	15	2.9	.04
		4	Very often	39	28	867	26	100	36	8,745	28							
			Total	140	100	3,311	100	281	100	30,800	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequen	cy D	istribution	S				Sta	itistical	Compariso	ons ^k		
Engineering										NGGE 201					Your seniors co	mpared v	vith	
0 0				Tennessee 1	Tech	Carnegie Cl	200	THEC Peer G	roun	NSSE 2016 2017	0 &	Tennessee Tech	Carnegie	o Class	THEC Peer	Group	NSSE 2016	8 2017
Item wording	Variable			Tennessee	reen	curregic ca	455		loup	2017			curregi	Effect	meereer	Effect	14551 2010	Effect
or description	name ^I	Values ^{**}		Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
g. Prepared for exams by	CLstudy	1	Never	15	11	547	16	29	10	4,123	13							
discussing or working through course material		2	Sometimes	37	27	1,020	31	79	28	9,159	30							
with other students		3	Often	38	27	938	28	80	28	9,129	30	2.9	2.6 **	.26	2.8	.02	2.7	.16
		4	Very often	49	35	812	24	94	33	8,374	27		Δ					
			Total	139	100	3,317	100	282	100	30,785	100							
h. Worked with other	CLproject	1	Never	4	3	149	4	6	2	1,177	4							
students on course		2	Sometimes	23	17	709	21	55	20	6,096	20							
projects or assignments		3	Often	38	27	1,124	34	79	28	10,806	35	3.3	3.1 **	.24	3.3	.06	3.1 *	.20
		4	Very often	74	53	1,330	40	140	50	12,715	41		Δ				Δ	
			Total	139	100	3,312	100	280	100	30,794	100							
i. Given a course	present	1	Never	22	16	482	15	20	7	3,634	12							
presentation		2	Sometimes	54	39	1,118	34	88	31	10,734	35							
		3	Often	45	32	966	29	76	27	9,574	31	2.4	2.6 *	18	2.9 ***	49	2.6 **	22
		4	Very often	18	13	749	23	96	34	6,845	22		∇				∇	
			Total	139	100	3,315	100	280	100	30,787	100		•		•		•	
2. During the current sch	nool vear, abo	out how o	often have vou done th	e following?														
a. Combined ideas from	RIintegrate	1	Never	2	1	124	4	11	4	976	3							
different courses when	U	2	Sometimes	32	23	938	28	76	27	8,794	29							
completing assignments		3	Often	66	47	1,390	42	109	39	12,904	42	3.0	2.9	.15	3.0	.09	2.9	.13
		4	Very often	39	28	858	26	84	30	8,093	26		2.7		510	.07	2.7	
			Total	139	100	3,310	100	280	100	30,767	100							
b. Connected your	RIsocietal	1	Never	21	15	507	15	37	13	4,495	15							
learning to societal		2	Sometimes	59	42	1,399	42	124	44	13,519	44							
problems or issues		3	Often	45	32	978	30	75	27	8,710	28	2.4	2.4	03	2.5	08	2.4	03
		4	Very often	14	10	428	13	44	16	4,023	13		2.1	.05	2.0	.00	2.1	.05
		·	Total	139	100	3,312	100	280	100	30,747	100							
c. Included diverse	RIdiverse	1	Never	47	34	951	29	78	28	9,160	30							
perspectives (political,	i i i i i i i i i i i i i i i i i i i	2	Sometimes	67	48	1,367	41	119	43	13,061	42							
religious, racial/ethnic,		3	Often	19	14	714	22	55	20	5,984	19	1.9	2.1 **	23	2.1 *	26	2.1 *	20
gender, etc.) in course		л Л	Very often	6	4	281	8	27	10	2,540	8	1.7	Z.1 *** ▼	23	2.1 *	20	2.1 [∞] ∇	20
discussions or assignments		4	Total	139	100	3.313	100	279	100	30,745	100		v		v		v	
assignments			10141	159	100	3,313	100	219	100	50,745	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

d. Examined the strengths RI and weaknesses of your own views on a	Variable name' Iownview	Values ^m 1		Tennessee 1	Геch	Comonia C									Your seniors co	mpared w	vith	
Item wording or description d. Examined the strengths RI and weaknesses of your own views on a	name'	1			Геch					NICCE 2040								
d. Examined the strengths RI and weaknesses of your own views on a	name'	1			reen		ass	THEC Peer G	roun	NSSE 2016 2017	o &	Tennessee Tech	Carnegi	e Class	THEC Peer	Group	NSSE 2016	5 & 2017
d. Examined the strengths R and weaknesses of your own views on a		1				curregie e	455		roup	2017			curregi	Effect	meereer	Effect	10002 2010	Effect
and weaknesses of your own views on a	Iownview	1		Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
your own views on a			Never	15	11	286	9	16	6	2,607	8							
		2	Sometimes	60	43	1,173	35	96	34	11,329	37							
topic or issue		3	Often	49	35	1,296	39	113	40	11,959	39	2.5	2.6 *	21	2.7 **	33	2.6 *	19
I I I I I I I I I I I I I I I I I I I		4	Very often	15	11	552	17	55	20	4,856	16		∇		▼		∇	
			Total	139	100	3,307	100	280	100	30,751	100							
e. Tried to better R	Iperspect	1	Never	7	5	197	6	8	3	1,856	6							
understand someone		2	Sometimes	57	41	1,030	31	95	34	9,804	32							
else's views by		3	Often	55	40	1,382	42	116	42	12,643	41	2.6	2.8 *	17	2.8 *	23	2.8	16
imagining how an issue looks from their		4	Very often	20	14	698	21	60	22	6,432	21		∇		∇			
perspective			Total	139	100	3,307	100	279	100	30,735	100		•		·			
f. Learned something that R	Inewview	1	Never	6	4	122	4	9	3	1,009	3							
changed the way you		2	Sometimes	50	36	1,084	33	87	31	9,887	32							
understand an issue or		3	Often	64	46	1,451	44	123	44	13,451	44	2.7	2.8	13	2.8	19	2.8	16
concept		4	Very often	19	14	651	20	61	22	6,376	21							
			Total	139	100	3,308	100	280	100	30,723	100							
g. Connected ideas from R	RIconnect	1	Never	2	1	50	2	7	3	482	2							
your courses to your		2	Sometimes	30	22	686	21	59	21	6,267	20							
prior experiences and		3	Often	62	45	1,521	46	122	44	14,445	47	3.1	3.1	01	3.1	.01	3.1	.00
knowledge		4	Very often	44	32	1,047	32	92	33	9,506	31							
			Total	138	100	3,304	100	280	100	30,700	100							
3. During the current school	year, abou	it how o	ften have you done th	e following?														-
	SFcareer	1	Never	30	22	795	24	50	18	6,954	23							
plans with a faculty		2	Sometimes	57	41	1,364	41	113	40	12,996	42							
member		3	Often	32	23	674	20	72	26	6,671	22	2.3	2.2	.04	2.4	13	2.3	.03
		4	Very often	19	14	473	14	47	17	4,115	13							
			Total	138	100	3,306	100	282	100	30,736	100							
b. Worked with a faculty SF	Fotherwork	1	Never	54	39	1,529	46	122	43	13,060	43							-
member on activities		2	Sometimes	44	32	982	30	78	28	9,671	31							
other than coursework		3	Often	25	18	474	14	47	17	4,957	16	2.0	1.9	.15	2.0	.04	1.9	.09
(committees, student groups, etc.)		4	Very often	16	12	314	10	35	12	3,035	10							
Stoups, etc.)			Total	139	100	3,299	100	282	100	30,723	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	Distribution	S				Sta	tistical	Compariso	ons ^k		
Engineering										NSSE 2016	5&				Your seniors co	mpared v	vith	
				Tennessee ⁻	Tech	Carnegie Cl	lass	THEC Peer G	roup	2017		Tennessee Tech	Carnegie	e Class	THEC Peer	Group	NSSE 2016	& 2017
Item wording	Variable													Effect		Effect		Effect
or description	name ¹	Values'		Count 24	% 18	Count 902	% 27	Count 53	% 19	Count	% 25	Mean	Mean	size "	Mean	size "	Mean	size "
c. Discussed course topics, ideas, or	SFdiscuss		Never							7,565								
concepts with a faculty		2	Sometimes	62	45	,	40	118	42	13,289	43	2.4						
member outside of		3	Often	30	22		22		21	6,720	22	2.4	2.2 *	.21	2.4	04	2.2 *	.19
class		4	Very often	21	15		10	52	19	3,113	10		Δ				Δ	
			Total	137	100	3,302	100	281	100	30,687	100							
d. Discussed your	SFperform	1	Never	42	30		27	57	20	8,537	28							
academic performance with a faculty member		2	Sometimes	51	37	1,488	45	134	48	14,125	46							
while a factury memoer		3	Often	30	22		18		19	5,592	18	2.1	2.1	.04	2.3	13	2.1	.08
		4	Very often	15	11	317	10	37	13	2,428	8							
			Total	138	100	3,301	100	282	100	30,682	100							
4. During the current sc	hool year, how	v much l	has your coursework e	mphasized th	e foll	owing?												
a. Memorizing course	memorize	1	Very little	15	11	295	9	33	12	2,961	10							
material		2	Some	58	42	1,253	38	113	41	12,001	39							
		3	Quite a bit	48	35	1,239	37	86	31	11,150	36	2.5	2.6	13	2.5	03	2.6	08
		4	Very much	18	13	530	16	47	17	4,654	15							
			Total	139	100	3,317	100	279	100	30,766	100							
b. Applying facts,	HOapply	1	Very little	3	2	99	3	5	2	722	2							
theories, or methods to		2	Some	24	17	548	17	43	15	4,787	16							
practical problems or		3	Quite a bit	47	34	1,386	42	91	33	12,858	42	3.2	3.2	.11	3.3	08	3.2	.06
new situations		4	Very much	64	46	1,280	39	140	50	12,378	40							
			Total	138	100	3,313	100	279	100	30,745	100							
c. Analyzing an idea,	HOanalyze	1	Very little	9	6	146	4	13	5	1,411	5							
experience, or line of		2	Some	32	23	699	21	50	18	6,537	21							
reasoning in depth by		3	Quite a bit	44	32	1,359	41	93	33	12,513	41	3.0	3.0	01	3.2	15	3.0	.00
examining its parts		4	Very much	54	39	1,102	33	122	44	10,248	33							
			Total	139	100	3,306	100	278	100	30,709	100							
d. Evaluating a point of	HOevaluate	1	Very little	29	21	367	11	30	11	4,061	13							
view, decision, or		2	Some	57	41	1,084	33	94	34	10,506	34							
information source		3	Quite a bit	34	24	,	35	81	29	10,457	34	2.3	2.7 ***	38	2.7 ***	42	2.6 ***	29
		4	Very much	19	14	,	21	75	27	5,699	19		2.7	.50	2.7	12	▼	.27
			Total	139	100	3.309	100	280	100	30,723	100		•		•		v	
				157	100	5,507	100	230	100	50,725	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequen	cy D	Distribution	S				Sta	atistical	Comparis	ons ^k		
Engineering										NSSE 2016	. &				Your seniors co	mpared v	vith	
				Tennessee 1	Tech	Carnegie Cla	ass	THEC Peer G	roup	2017	, a	Tennessee Tech	Carnegi	e Class	THEC Peer	Group	NSSE 201	6 & 2017
Item wording	Variable					0			-				U	Effect		Effect		Effect
or description	name ¹	Values"		Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
 Forming a new idea or understanding from 	HOform	1	Very little	13	9	228	7		6	2,147	7							
various pieces of		2	Some	47	34	930	28		27	8,799	29	. –						
information		3	Quite a bit	52	37	1,334	40		34	12,600	41	2.7	2.8 *	18	2.9 **	31	2.8	16
		4	Very much	27	19	816	25		33	7,170	23		$\mathbf{\nabla}$		▼			
			Total	139	100	3,308	100	281	100	30,716	100							
5. During the current sch	100l year, to v	what exte	ent have your instructo	ors done the f	ollow	ing?												
a. Clearly explained	ETgoals	1	Very little	5	4	100	3	9	3	918	3							
course goals and		2	Some	34	24	688	21	43	15	6,435	21							
requirements		3	Quite a bit	68	49	1,464	44	118	42	14,364	47	2.9	3.1 *	17	3.2 **	33	3.0	14
		4	Very much	32	23	1,063	32	111	40	9,064	29		∇		•			
			Total	139	100	3,315	100	281	100	30,781	100							
b. Taught course sessions	ETorganize	1	Very little	5	4	134	4	8	3	1,179	4							
in an organized way		2	Some	31	22	736	22	55	20	6,722	22							
		3	Quite a bit	61	44	1,509	46	135	48	14,376	47	3.0	3.0	.04	3.0	05	3.0	.03
		4	Very much	42	30	931	28	84	30	8,476	28							
			Total	139	100	3,310	100	282	100	30,753	100							
c. Used examples or	ETexample	1	Very little	7	5	153	5	12	4	1,189	4							
illustrations to explain		2	Some	27	20	711	21	47	17	6,331	21							
difficult points		3	Quite a bit	54	39	1,353	41	111	39	13,283	43	3.1	3.0	.05	3.1	09	3.0	.03
		4	Very much	50	36	1,093	33	112	40	9,949	32							
			Total	138	100	3,310	100	282	100	30,752	100							
d. Provided feedback on a	ETdraftfb	1	Very little	20	14	470	14	40	14	4,748	15							
draft or work in		2	Some	51	37	1,111	34	87	31	10,707	35							
progress		3	Quite a bit	42	30	1,116	34	89	32	9,859	32	2.5	2.6	04	2.6	11	2.5	.00
		4	Very much	25	18	610	18	64	23	5,394	18							
			Total	138	100	3,307	100	280	100	30,708	100							
e. Provided prompt and	ETfeedback	1	Very little	13	9	311	9	30	11	3,003	10							
detailed feedback on		2	Some	38	28	999	30	78	28	9,951	32							
tests or completed		3	Quite a bit	58	42	1,271	39	111	40	11,940	39	2.7	2.7	.01	2.7	.01	2.7	.08
assignments		4	Very much	28	20	712	22	62	22	5,728	19							
			Total	137	100	3,293	100	281	100	30,622	100							
						-,												



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

Seniors ^a in						Frequer	ncy D	istribution	S				St	atistical	Comparis	sons ^k		
Engineering				Tennessee 1	Геch	Carnegie Cl	lass	THEC Peer G	roup	NSSE 2016 2017	5&	Tennessee Tech	Carneg		Your seniors co THEC Pee		NSSE 2010	6 & 2017
Item wording or description	Variable name ¹	Values ⁿ	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
6. During the current					70	count	70	count	70	count	70	Mean	wear	3/20	Weam	3120	Wedn	3120
a. Reached conclusions	QRconclude	1	Never	5	4	166	5	10	4	1,417	5							
based on your own	-	2	Sometimes	24	17	747	23	56	20	7,083	23							
analysis of numerical		3	Often	58	42	1,333	40	107	38	12,158	40	3.1	3.0	.16	3.1	.02	3.0	.15
information (numbers,		4	Very often	52	37	1,058	32	108	38	10,019	33							
graphs, statistics, etc.)			Total	139	100	3,304	100	281	100	30,677	100							
b. Used numerical	QRproblem	1	Never	25	18	688	21	57	20	6,101	20							
information to examine		2	Sometimes	47	34	1,135	34	88	31	10,568	34							
a real-world problem of	or	3	Often	34	25	847	26	77	27	8,238	27	2.5	2.4	.08	2.5	.02	2.4	.07
issue (unemployment, climate change, public		4	Very often	31	23	633	19	60	21	5,776	19							
health, etc.)			Total	137	100	3,303	100	282	100	30,683	100							
ileanin, etc.)						-,				,								
c. Evaluated what others	QRevaluate	1	Never	13	9	457	14	31	11	3,903	13							
have concluded from		2	Sometimes	53	38	1,233	37	97	34	11,481	37							
numerical information		3	Often	43	31	1,080	33	93	33	10,069	33	2.6	2.5	.13	2.7	02	2.5	.10
		4	Very often	29	21	539	16	61	22	5,275	17							
			Total	138	100	3,309	100	282	100	30,728	100							
7. During the current	school year, about	how r	nany papers, reports,	or other writ	ing ta	sks of the fo	llowir	g lengths ha	ve you	ı been assig	ned? (Include those not	yet comp	leted.)				
a. Up to 5 pages	wrshortnum	0	None	20	14	313	10	26	9	3,140	10							
	(Recoded version	1.5	1-2	40	29	740	23	64	23	7,203	24							
	of wrshort created	4	3-5	34	24	892	27	70	25	8,607	28							
	by NSSE. Values	8	6-10	23	17	671	21	54	19	5,642	19	5.7	6.6	15	7.0 *	20	6.3	11
	are estimated	13	11-15	7	5	284	9	27	10	2,599	9				∇			
	number of papers, reports, etc.)	18	16-20	6	4	129	4	12	4	1,285	4							
	<i>(cporis, cici)</i>	23	More than 20	9	6	240	7	25	9	1,972	6							
			Total	139	100	3,269	100	278	100	30,448	100							
b. Between 6 and 10	wrmednum	0	None	51	37	968	30	86	32	9,256	31							
pages	(Recoded version	1.5	1-2	35	25	1,016	31	59	22	10,004	33							
	of wrmed created	4	3-5	24	17	635	20	58	21	5,957	20							
	by NSSE. Values	8	6-10	18	13	374	12	44	16	3,054	10	3.4	3.5	01	4.1	12	3.2	.05
	are estimated	13	11-15	4	3	126	4	10	4	1,067	4							
	number of papers, reports, etc.)	18	16-20	2	1	55	2	4	1	418	1							
	reports, etc.)	23	More than 20	4	3	69	2	10	4	514	2							
			Total	138	100	3,243	100	271	100	30,270	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

Seniors ^a in						Frequen	cy D	istribution	S				St		Comparis			
Engineering				Tennessee	Гесh	Carnegie Cla	ass	THEC Peer G	roup	NSSE 2016 2017	5&	Tennessee Tech	Carneg	ie Class	Your seniors control of the THEC Pee	r Group	NSSE 201	
Item wording or description	Variable name ^I	Values ^{**}	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
c. 11 pages or more	wrlongnum	0	None	61	45		47	109	40	14,078	46	incun	Wican	5120	mean	5120	Wiedin	5120
	(Recoded version	1.5	1-2	34	25	946	29	65	24	9,484	31							
	of wrlong created	4	3-5	23	17	351	11	34	12	3,454	11							
	by NSSE. Values	8	6-10	6	4	209	6	34	12	1,788	6	2.8	2.5	.07	4.1 *	23	2.2	.13
	are estimated number of papers,	13	11-15	7	5	79	2	12	4	745	2				∇			
	reports, etc.)	18	16-20	4	3	46	1	6	2	307	1							
		23	More than 20	1	1	69	2	15	5	459	2							
			Total	136	100	3,234	100	275	100	30,315	100							
Estimated number of assigned pages of student writing.	wrpages (Continuous varial from wrshort, wrm estimated pages of	ed, and	-									84.9	83.0	.02	113.4 * ▼	22	77.1	.08
8. During the current a. People of a race or	school year, abou DDrace	it how o	often have you had dis Never	cussions with 12	peop 9	le from the fo 214	ollow 6	ing groups? 14	5	1,871	6							
ethnicity other than		2	Sometimes	26	19	707	21	60	21	7,273	24							
your own		3	Often	41	30	1,009	31	86	30	8,952	29	3.1	3.1	01	3.1	06	3.1	.01
		4	Very often	59	43	1,373	42	122	43	12,654	41							
			Total	138	100	3,303	100	282	100	30,750	100							
b. People from an	DDeconomic	1	Never	11	8	210	6	11	4	1,646	5							
economic background other than your own		2	Sometimes	25	18	744	23	52	18	7,207	23							
other than your own		3	Often	51	37	1,141	35	106	38	10,496	34	3.0	3.0	.02	3.1	12	3.0	.00
		4	Very often	51	37	1,201	36	113	40	11,363	37							
			Total	138	100	3,296	100	282	100	30,712	100							
c. People with religious	DDreligion	1	Never	8	6	253	8	16	6	2,227	7							
beliefs other than your own		2	Sometimes	35	25	808	25	65	23	7,660	25							
		3	Often	37	27	1,047	32	79	28	9,432	31	3.1	3.0	.09	3.1	03	3.0	.08
		4	Very often	58	42	1,184	36	119	43	11,381	37							
1 75 1 11 11 1			Total	138	100	3,292	100	279	100	30,700	100							
d. People with political views other than your	DDpolitical	1	Never	8	6	251	8	14	5	1,979	6							
own		2	Sometimes	32	23	831	25	67	24	8,209	27	2.1					• •	
		3	Often	43	31	1,054	32	90	32	9,810	32	3.1	2.9	.11	3.1	01	3.0	.11
		4	Very often	55	40	1,161	35	111	39	10,709	35							
			Total	138	100	3,297	100	282	100	30,707	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering										NSSE 2016	5.8				Your seniors co	ompared v	vith	
				Tennessee 1	Tech	Carnegie Cl	ass	THEC Peer G	roup	2017	, a	Tennessee Tech	Carnegi	ie Class	THEC Pee	r Group	NSSE 2016	& 2017
Item wording or description	Variable name ¹	Values ⁿ	^a Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
9. During the current so	chool year, abo																	
a. Identified key	LSreading	1	Never	10	7	154	5	18	6	1,527	5							
information from		2	Sometimes	35	26	851	26	62	22	8,210	27							
reading assignments		3	Often	54	39	1,375	42	106	38	12,981	42	2.9	2.9	06	3.0	13	2.9	02
		4	Very often	38	28	927	28	95	34	8,031	26							
			Total	137	100	3,307	100	281	100	30,749	100							
b. Reviewed your notes	LSnotes	1	Never	13	9	275	8	19	7	2,796	9							
after class		2	Sometimes	35	25	1,001	30	66	23	10,524	34							
		3	Often	36	26	1,117	34	91	32	10,070	33	2.9	2.8	.15	3.0	06	2.7 **	.25
		4	Very often	54	39	908	28	105	37	7,335	24						Δ	
			Total	138	100	3,301	100	281	100	30,725	100							
c. Summarized what you	LSsummary	1	Never	15	11	302	9	24	9	3,085	10							
learned in class or from		2	Sometimes	43	31	1,075	33	71	25	10,667	35							
course materials		3	Often	46	33	1,181	36	97	35	10,734	35	2.7	2.7	.00	2.9	18	2.7	.07
		4	Very often	34	25	735	22	88	31	6,149	20							
			Total	138	100	3,293	100	280	100	30,635	100							
10. During the current	school year, to	what ex	tent have your courses	s challenged y	ou to	do your bes	t wor	k?										
	challenge	1	Not at all	2	1	53	2	3	1	391	1							
		2		4	3	73	2	2	1	616	2							
		3		6	4	148	4	10	4	1,443	5							
		4		5	4	357	11	31	11	3,290	11	5.6	5.5	.10	5.7	06	5.5	.10
		5		44	32	921	28	67	24	8,729	28							
		6		33	24	880	27	76	27	8,426	27							
		7	Very much	43	31	869	26	91	33	7,779	25							
			Total	137	100	3,301	100	280	100	30,674	100							
11. Which of the follow	ing have you de	one or d	o you plan to do befor	e you gradua	te?°													
a. Participate in an	intern		Have not decided	9	7	239	7	13	5	1,977	6							
internship, co-op, field	(Means indicate		Do not plan to do	17	12	452	14	40	14	3,908	13							
experience, student teaching, or clinical	the percentage		Plan to do	23	17	915	28	85	30	8,321	27	64%	51% **	.26	51% *	.27	54% *	.21
placement	who responded		Done or in progress	88	64	1,702	51	144	51	16,550	54		Δ		Δ		Δ	
F	"Done or in progress.")		Total	137	100	3,308	100	282	100	30,756	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

Seniors ^a in					Frequer	ncy E	Distribution	S				Sta	atistical	Comparis	ons ^k		
Engineering			Toppossoo	Tach	Comosio C				NSSE 2016 2017	5&	Tennessee Tech	Corposi		Your seniors co			C 9 2017
	Variable		Tennessee	rech	Carnegie C	lass	THEC Peer G	roup	2017		Tennessee Tech	Carnegi	Effect	THEC Peer	Effect	NSSE 201	Effect
Item wording or description	name ¹	Values ^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
b. Hold a formal	leader	Have not decided	10	7		11	26	9	3,009	10							
leadership role in a	(Means indicate	Do not plan to do	66	48	1,522	46	129	46	12,639	41							
student organization or	the percentage	Plan to do	5	4	305	9	29	10	2,772	9	41%	33%	.16	35%	.14	40%	.02
group	who responded	Done or in progress	57	41	1,100	33	98	35	12,320	40							
	"Done or in progress.")	Total	138	100	3,297	100	282	100	30,740	100							
c. Participate in a learning	learncom	Have not decided	16	12	463	14	38	13	3,750	12							
community or some	(Means indicate	Do not plan to do	83	61	1,817	55	143	51	17,149	56							
other formal program where groups of	the percentage	Plan to do	9	7	366	11	34	12	2,809	9	21%	20%	.03	24%	06	23%	04
students take two or	who responded	Done or in progress	29	21	660	20	67	24	7,014	23							
more classes together	"Done or in progress.")	Total	137	100	3,306	100	282	100	30,722	100							
d. Participate in a study	abroad	Have not decided	12	9	394	12	38	14	3,060	10							
abroad program	(Means indicate	Do not plan to do	106	77	2,394	73	205	73	21,928	71							
	the percentage	Plan to do	6	4	256	8	19	7	2,068	7	9%	8%	.06	6%	.13	12%	08
	who responded	Done or in progress	13	9	255	8	17	6	3,667	12							
	"Done or in progress.")	Total	137	100	3,299	100	279	100	30,723	100							
e. Work with a faculty	research	Have not decided	17	12	550	17	45	16	4,695	15							
member on a research	(Means indicate	Do not plan to do	57	41	1,435	44	119	42	12,650	41							
project	the percentage	Plan to do	22	16	601	18	53	19	4,772	16	30%	22% *	.20	23%	.17	28%	.06
	who responded	Done or in progress	42	30	712	22	64	23	8,561	28		Δ					
	"Done or in progress.")	Total	138	100	3,298	100	281	100	30,678	100							
f. Complete a culminating	capstone	Have not decided	5	4	254	8	19	7	1,827	6							
senior experience	(Means indicate	Do not plan to do	7	5	460	14	20	7	3,173	10							
(capstone course,	the percentage	Plan to do	40	29	1,118	34	106	38	9,753	32	62%	45% ***	.36	49% **	.28	52% *	.21
senior project or thesis, comprehensive exam,	who responded	Done or in progress	86	62	1,473	45	137	49	15,964	52				Δ		Δ	
portfolio, etc.)	"Done or in progress.")	Total	138	100	3,305	100	282	100	30,717	100							
12. About how many of	vour courses at	this institution have include	led a communit	v-bas	ed proiect (s	ervic	e-learning)?										
	servcourse	1 None	67	49	I V X	53	92	33	16,255	53							
		2 Some	64	46	1,303	40	164	59	12,365	40							
		3 Most	4	3	213	6	20	7	1,637	5	1.6	1.6	.03	1.8 **	28	1.5	.06
		4 All	3	2	45	1	3	1	395	1				∇			
		Total	138	100	3,293	100	279	100	30,652	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	IS				St	atistica	l Compari	sons ^k		
Engineering										NSSE 2016	5&				Your seniors o	ompared v	vith	
				Tennessee 1	Геch	Carnegie Cl	lass	THEC Peer G	roup	2017		Tennessee Tech	Carne	gie Class	THEC Pee	r Group	NSSE 201	.6 & 2017
Item wording	Variable													Effect		Effect		Effect
or description	name'		^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size ⁿ	Mean	size ⁿ
13. Indicate the quality		ctions w		e at your inst	itutio													
a. Students	QIstudent	1	Poor	1	1	41	1	2	1	356	1							
		2		3	2	55	2	3	1	450	1							
		3		7	5	136	4	11	4	1,274	4							
		4		10	7	382	12	26	9	3,060	10							
		5		30	22	820	25	74	26	7,448	24	5.6	5.5	.08	5.7	03	5.6	.03
		6		48	35	911	27	70	25	8,994	29							
		7	Excellent	39	28	929	28	93	33	8,933	29							
		—	Not applicable	1	1	40	1	3	1	272	1							
			Total	139	100	3,314	100	282	100	30,787	100							
b. Academic advisors	QIadvisor	1	Poor	5	4	155	5	15	5	1,702	6							
		2		11	8	164	5	10	4	1,790	6							
		3		14	10	234	7	19	7	2,645	9							
		4		19	14	424	13	37	13	4,227	14							
		5		24	17	618	19	56	20	5,850	19	5.0	5.2	12	5.2	12	5.0	.00
		6		27	20	641	19	58	21	6,013	20							
		7	Excellent	37	27	1,026	31	83	30	8,034	26							
		—	Not applicable	1	1	47	1	3	1	487	2							
			Total	138	100	3,309	100	281	100	30,748	100							
c. Faculty	QIfaculty	1	Poor	2	1	76	2	11	4	640	2							
		2		5	4	104	3	6	2	1,031	3							
		3		12	9	199	6	14	5	1,891	6							
		4		20	14	414	13	41	15	4,256	14							
		5		34	25	808	24	66	24	7,735	25	5.2	5.3	09	5.3	05	5.3	05
		6		35	25	886	27	74	26	8,294	27							
		7	Excellent	29	21	788	24	66	24	6,628	22							
		_	Not applicable	1	1	27	1	2	1	196	1							
			Total	138	100	3,302	100	280	100	30,671	100							



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

Seniors ^a in						Frequen	icy D	istribution	s				St	atistical	Comparis	sons ^k		
Engineering															Your seniors c	ompared w	vith	
				Tennessee 1	- ech	Carnegie Cl	255	THEC Peer G	oun	NSSE 2016 2017	5&	Tennessee Tech	Carneg	ie Class	THEC Pee	r Group	NSSE 201	6 & 2017
Item wording	Variable			Termessee	cen	carriegie en	u33		oup	2017			carrieg	Effect	meeree	Effect	N35L 201	Effect
or description	name'	Values"	^a Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size"	Mean	size"
d. Student services staff	QIstaff	1	Poor	9	7	150	5	18	6	1,512	5							
(career services,		2		6	4	141	4	11	4	1,493	5							
student activities,		3		9	7	255	8	19	7	2,397	8							
housing, etc.)		4		21	15	447	14	42	15	4,574	15							
		5		30	22	596	18	45	16	6,077	20	4.8	4.8	03	4.8	03	4.8	01
		6		26	19	532	16	48	17	5,337	17							
		7	Excellent	20	14	501	15	49	17	4,612	15							
		_	Not applicable	17	12	677	21	49	17	4,688	15							
			Total	138	100	3,299	100	281	100	30,690	100							
e. Other administrative	QIadmin	1	Poor	4	3	202	6	27	10	1,720	6							
staff and offices		2		7	5	157	5	20	7	1,694	6							
(registrar, financial aid,		3		14	10	260	8	13	5	2,637	9							
etc.)		4		28	20	504	15	55	20	5,000	16							
		5		27	20	719	22	57	20	6,665	22	4.9	4.8	.04	4.6	.14	4.8	.07
		6		24	17	623	19	52	18	5,815	19							
		7	Excellent	28	20	595	18	50	18	5,026	16							
		_	Not applicable	6	4	248	7	8	3	2,198	7							
			Total	138	100	3,308	100	282	100	30,755	100							
14. How much does your	institution en	nphasize	e the following?															
a. Spending significant	empstudy	1	Very little	4	3	58	2	6	2	575	2							
amounts of time		2	Some	21	15	552	17	40	14	4,500	15							
studying and on		3	Quite a bit	57	41	1,479	45	106	38	13,324	43	3.2	3.2	.05	3.3	09	3.2	02
academic work		4	Very much	57	41	1,217	37	129	46	12,317	40							
			Total	139	100	3,306	100	281	100	30,716	100							
b. Providing support to	SEacademic	1	Very little	11	8	198	6	21	8	1,683	5							
help students succeed		2	Some	32	23	865	26	64	23	7,985	26							
academically		3	Quite a bit	64	46	1,375	42	108	39	13,481	44	2.8	2.9	04	2.9	09	2.9	04
		4	Very much	32	23	860	26	85	31	7,493	24							
			Total	139	100	3,298	100	278	100	30,642	100							
c. Using learning support	SElearnsup	1	Very little	17	12	354	11	36	13	3,178	10							
services (tutoring		2	Some	45	32	922	28	79	28	8,717	28							
services, writing		3	Quite a bit	54	39	1,195	36	85	30	11,600	38	2.6	2.8	17	2.7	15	2.7	16
center, etc.)		4	Very much	23	17	825	25	80	29	7,183	23							
			Total	139	100	3,296	100	280	100	30,678	100							

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Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequen	ncy D	istribution	S				St	atistical	Comparis	ons ^k		
Engineering											_			}	our seniors co	ompared w	vith	
0 0				Tennessee 1	Toch	Carpogia Cl	200	THEC Peer G	roup	NSSE 2016 2017	&	Tennessee Tech	Carneg	io Class	THEC Pee	Group	NSSE 201	6 8 2017
Item wording	Variable			Termessee	lecii	Carriegie Ci	d35	THEC PEELO	roup	2017		Termessee Teem	Carrieg	Effect	THECPEE	Effect	N33E 201	Effect
or description	name'	Values'	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size ⁿ
d. Encouraging contact	SEdiverse	1	Very little	26	19	618	19	47	17	5,644	18							
among students from different backgrounds		2	Some	45	32	1,077	33	104	37	10,114	33							
(social, racial/ethnic,		3	Quite a bit	46	33	978	30	76	27	9,360	31	2.5	2.5	03	2.5	02	2.5	02
religious, etc.)		4	Very much	22	16	624	19	53	19	5,535	18							
			Total	139	100	3,297	100	280	100	30,653	100							
e. Providing opportunities	SEsocial	1	Very little	13	9	407	12	26	9	3,058	10							
to be involved socially		2	Some	43	31	999	30	97	35	8,929	29							
		3	Quite a bit	54	39	1,203	36	83	30	12,035	39	2.7	2.7	.06	2.7	02	2.7	02
		4	Very much	29	21	691	21	73	26	6,663	22							
			Total	139	100	3,300	100	279	100	30,685	100							
f. Providing support for	SEwellness	1	Very little	25	18	489	15	41	15	3,954	13							
your overall well-being		2	Some	39	28	986	30	74	26	8,783	29							
(recreation, health care,		3	Quite a bit	50	36	1,136	34	89	32	11,333	37	2.5	2.6	07	2.7	18	2.7	14
counseling, etc.)		4	Very much	25	18	683	21	77	27	6,576	21							
			Total	139	100	3,294	100	281	100	30,646	100							
g. Helping you manage	SEnonacad	1	Very little	61	44	1,205	37	107	38	10,840	35							
your non-academic		2	Some	41	29	1,126	34	101	36	11,125	36							
responsibilities (work,		3	Quite a bit	27	19	663	20	43	15	6,079	20	1.9	2.0	13	2.0	08	2.0	12
family, etc.)		4	Very much	10	7	305	9	29	10	2,613	9							
			Total	139	100	3,299	100	280	100	30,657	100							
h. Attending campus	SEactivities	1	Very little	25	18	652	20	43	15	4,955	16							
activities and events		2	Some	52	37	1,063	32	92	33	9,967	33							
(performing arts,		3	Quite a bit	47	34	1,071	32	87	31	10,467	34	2.4	2.4	07	2.6 *	21	2.5	16
athletic events, etc.)		4	Very much	15	11	517	16	58	21	5,271	17				∇			
			Total	139	100	3,303	100	280	100	30,660	100				•			
i. Attending events that	SEevents	1	Very little	38	28	856	26	62	22	7,372	24							
address important		2	Some	58	42	1,264	38	125	44	11,988	39							
social, economic, or		3	Quite a bit	28	20	811	25	61	22	7,931	26	2.1	2.2	10	2.2	12	2.2	13
political issues		4	Very much	13	9	366	11	33	12	3,335	11	211	2.2	.10	2.2	.12	2.2	.15
			Total	137	100	3,297	100	281	100	30,626	100							
				107	100	5,277	- 00	201	- 50	2 3,020								



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	Distribution	S				Sta	tistical	Comparis	ons ^k		
Engineering												-			Your seniors co	ompared v	vith	
0 - 0				T	T a a la					NSSE 2016 2017	5&	Tennessee Tech	Comoraio	Class		Casar		0 2017
the second leave	Variable			Tennessee 1	lech	Carnegie Ci	ass	THEC Peer G	roup	2017		Tennessee Tech	Carnegie	Effect	THEC Peer	Effect	NSSE 2016	& 2017 Effect
Item wording or description	name ¹	Values "	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size"
15. About how many he	ours do you spend	l in a t	ypical 7-day week doi	ng the follow	ing?													
a. Preparing for class	tmprephrs	0	0 hrs	3	2	23	1	2	1	169	1							
(studying, reading,	(Recoded version	3	1-5 hrs	6	4	334	10	28	10	2,791	9							
writing, doing	of tmprep created	8	6-10 hrs	21	15	625	19	33	12	5,243	17							
homework or lab work, analyzing data,	by NSSE. Values	13	11-15 hrs	19	14	624	19	55	20	5,476	18							
rehearsing, and other	are estimated	18	16-20 hrs	14	10	601	18	53	19	5,750	19	20.7	16.8 ***	.41	18.4 *	.23	17.7 ***	.31
academic activities)	number of hours	23	21-25 hrs	23	17	425	13	37	13	4,001	13				Δ		A	
	per week.)	28	26-30 hrs	18	13	242	7	17	6	2,591	8							
		33	More than 30 hrs	35	25	428	13	55	20	4,716	15							
			Total	139	100	3,302	100	280	100	30,737	100							
b. Participating in co-	tmcocurrhrs	0	0 hrs	46	33	1,476	45	140	50	11,432	37							
curricular activities	(Recoded version	3	1-5 hrs	46	33	848	26	51	18	9,314	30							
(organizations, campus	of tmcocurr	8	6-10 hrs	27	20	436	13	42	15	4,531	15							
publications, student government, fraternity	created by NSSE.	13	11-15 hrs	9	7	218	7	17	6	2,434	8							
or sorority,	Values are	18	16-20 hrs	3	2	160	5	19	7	1,440	5	5.2	4.9	.04	4.8	.04	5.3	02
intercollegiate or	estimated number	23	21-25 hrs	4	3	90	3	6	2	745	2							
intramural sports, etc.)	of hours per week.)	28	26-30 hrs	1	1	22	1	0	0	297	1							
	weeka)	33	More than 30 hrs	2	1	50	2	5	2	468	2							
			Total	138	100	3,300	100	280	100	30,661	100							
c. Working for pay	tmworkonhrs	0	0 hrs	81	58	2,345	71	207	74	20,808	68							
on campus	(Recoded version	3	1-5 hrs	13	9	152	5	7	3	1,715	6							
	of tmworkon	8	6-10 hrs	29	21	235	7	18	6	2,872	9							
	created by NSSE.	13	11-15 hrs	7	5	204	6	16	6	2,130	7							
	Values are	18	16-20 hrs	6	4	217	7	23	8	2,060	7	4.0	3.9	.01	3.7	.04	4.0	.00
	estimated number of hours per	23	21-25 hrs	1	1	75	2	1	0	572	2							
	of nours per week.)	28	26-30 hrs	1	1	21	1	0	0	194	1							
	neem)	33	More than 30 hrs	1	1	48	1	7	3	336	1							
			Total	139	100	3,297	100	279	100	30,687	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	S				Sta	tistical	Compariso	ons ^k		
Engineering														1	Your seniors co	mpared w	vith	
				_						NSSE 2016	5&	TT		-		_		
	Mariahla			Tennessee 1	ech	Carnegie Cl	ass	THEC Peer G	roup	2017		Tennessee Tech	Carnegie		THEC Peer		NSSE 2016	
Item wording or description	Variable name ¹	Values'	^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
d. Working for pay	tmworkoffhrs	0	0 hrs	86	63	1,564	47	136	48	16,658	54	mean	mean	5120	wicum	5120	mean	5120
off campus	(Recoded version	3	1-5 hrs	9	7	125	4	14	5	1,328	4							
	of tmworkoff	8	6-10 hrs	9	7	157	5	14	5	1,692	6							
	created by NSSE.	13	11-15 hrs	4	3	168	5	17	6	1,780	6							
	Values are	18	16-20 hrs	13	9	229	7	18	6	2,460	8	6.3	12.1 ***	43	11.3 ***	40	9.3 **	24
	estimated number	23	21-25 hrs	3	2	201	6	14	5	1,685	5				V		∇	
	of hours per week.)	28	26-30 hrs	3	2	150	5	17	6	1,051	3							
	week.)	33	More than 30 hrs	10	7	703	21	51	18	4,023	13							
			Total	137	100	3,297	100	281	100	30,677	100							
Estimated number of	tmworkhrs																	
hours working for pay	(Continuous											10.0						
	variable created											10.2	15.9 ***	41	15.0 ***	34	13.3 **	24
	by NSSE)												▼		▼		∇	
										10.077								
 Doing community service or volunteer 	tmservicehrs	0		86	62		61	177	63	18,955	62							
work	(Recoded version	3	1-5 hrs	38	27	896	27	70	25	8,621	28							
Work	of tmservice	8	6-10 hrs	10	7	184	6	15	5	1,562	5							
	created by NSSE. Values are	13	11-15 hrs	2	1	91	3	9	3	682	2	2.0						
	estimated number	18	16-20 hrs	3	2	50	2	4	1	395	1	2.0	2.4	09	2.4	09	2.1	04
	of hours per	23	21-25 hrs	0	0	40	1	4	1	209	1							
	week.)	28	26-30 hrs	0	0	8	0	1	0	76	0							
		33	More than 30 hrs	0	0	14	0	1	0	139	0							
f Delemine and	t	0	Total	139	100	3,290	100	281	100	30,639	100							
f. Relaxing and socializing (time with	tmrelaxhrs	0		3	2	137	4	19	7	945	3							
friends, video games,	(Recoded version	3	1-5 hrs	38	28	879	27	76	27	7,423	24							
TV or videos, keeping	of tmrelax created by NSSE. Values		6-10 hrs	44	32 13	873	26	79 27	28	8,663	28							
up with friends online,	are estimated	13	11-15 hrs	18		581	18	37	13	5,718	19	11.2	11.1	01	10.6	07	11.4	02
etc.)	number of hours	18	16-20 hrs	16	12	407	12	30	11	3,875	13	11.4	11.1	.01	10.6	.07	11.4	03
	per week.)	23	21-25 hrs	5	4	161	5	14	5	1,580	5							
		28	26-30 hrs	4	3	71	2	9	3	735	2							
		33	More than 30 hrs	10	7	193	6	15	5	1,750	6							
			Total	138	100	3,302	100	279	100	30,689	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequen	icy D	istribution	S				Sta	itistical	Compariso	ons ^k		
Engineering														Y	Your seniors co	npared w	vith	
0 0				Tennessee 1	-och	Corpogio Cl	200	THEC Peer G	roup	NSSE 2016 2017	8	Tennessee Tech	Carnegie	o Class	THEC Peer	Group	NSSE 2016	8. 2017
Item wording	Variable			Termessee	ecn	Carriegie Ci	d35	THEC PEELO	loup	2017		Termessee Teen	Carriegie	Effect	THEC PEEL	Effect	N33E 2010	Effect
or description	name'	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
g. Providing care for	tmcarehrs	0	0 hrs	111	80	2,148	65	177	64	22,191	72							
dependents (children,	(Recoded version	3	1-5 hrs	8	6	353	11	29	10	2,783	9							
parents, etc.)	of tmcare created	8	6-10 hrs	8	6	169	5	14	5	1,353	4							
	by NSSE. Values	13	11-15 hrs	3	2	136	4	15	5	921	3							
	are estimated	18	16-20 hrs	3	2	102	3	11	4	804	3	2.4	5.4 ***	30	5.5 ***	35	4.1 **	19
	number of hours per week.)	23	21-25 hrs	2	1	57	2	7	3	428	1		∇		▼		∇	
	per week.)	28	26-30 hrs	0	0	34	1	3	1	248	1							
		33	More than 30 hrs	3	2	283	9	21	8	1,894	6							
			Total	138	100	3,282	100	277	100	30,622	100							
h. Commuting to campus	tmcommutehrs	0	0 hrs	17	12	725	22	34	12	5,912	19							
(driving, walking, etc.)	(Recoded version	3	1-5 hrs	93	67	1,589	48	164	59	16,211	53							
	of tmcommute	8	6-10 hrs	15	11	595	18	48	17	5,387	18							
	created by NSSE.	13	11-15 hrs	6	4	199	6	14	5	1,766	6							
	Values are	18	16-20 hrs	4	3	74	2	7	3	644	2	4.8	5.1	04	5.6	12	4.9	01
	estimated number of hours per	23	21-25 hrs	0	0	42	1	4	1	305	1							
	week.)	28	26-30 hrs	2	1	19	1	1	0	138	0							
		33	More than 30 hrs	2	1	53	2	8	3	375	1							
			Total	139	100	3,296	100	280	100	30,738	100							
16. Of the time you spe	end preparing for	class i	n a typical 7-day week	, about how	nuch	is on assigne	d rea	ding?										
	reading	1	Very little	55	40	852	26	84	31	9,004	29							
	0	2	Some	57	41	1,176	36	104	38	11,643	38							
		3	About half	18	13	750	23	54	20	6,048	20	1.9	2.3 ***	41	2.2 **	29	2.2 ***	31
		4	Most	8	6	383	12	23	8	2,917	10				V	,	▼	
		5	Almost all	1	1	129	4	10	4	1,079	4		•		•		•	
		5	Total	139	100	3,290	100	275	100	30,691	100							
			1000	107	100	5,250	100	270	100	50,071	100							
	tmreadinghrs																	
of tmprephrs bas	able created by NSSE red on reading, where thalf=.50; Most=.75	e Very lit										5.3	6.0	14	5.9	12	5.8	10



Frequencies and Statistical Comparisons: Engineering

Tennessee Technological University

Seniors ^a in						Frequen	ncy D	istribution	S				Sta	atistical	Compariso	ons ^k		
Engineering															Your seniors coi	npared w	vith	
0 0				Tennessee 1	Toch	Carnegie (1	200	THEC Peer G	roun	NSSE 2016 2017	&	Tennessee Tech	Carnegi	o Class	THEC Peer	Group	NSSE 2016	5 & 2017
Item wording	Variable			TEIMESSEE	letii	Carriegie Ci	ass	THEC FEEL O	loup	2017			Carriegi	Effect	THEC FEEL	Effect	N33L 2010	Effect
or description	name ¹	Values'	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
	tmreadinghrscol	1	0 hrs	3	2	23	1	2	1	165	1							
	(Collapsed version of tmreadinghrs	2	More than zero, up to 5 hrs	83	60	1,840	56	163	59	17,802	58							
	created by NSSE.)	3	More than 5, up to 10 hrs	38	27	884	27	68	25	8,200	27							
		4	More than 10, up to 15 hrs	8	6	232	7	15	5	1,981	6							
		5	More than 15, up to 20 hrs	2	1	157	5	13	5	1,317	4							
		6	More than 20, up to 25 hrs	5	4	108	3	10	4	780	3							
		7	More than 25 hrs	0	0	32	1	3	1	350	1							
			Total	139	100	3,276	100	274	100	30,595	100							
17. How much has yo	ur experience at tl	his inst	itution contributed to	your knowled	lge, sł	cills, and pers	sonal	developmen	t in th	e following	areas	?						
a. Writing clearly and	pgwrite	1	Very little	18	13	343	10	24	9	3,284	11							
effectively		2	Some	52	37	908	27	64	23	9,146	30							
		3	Quite a bit	44	32	1,234	37	109	39	11,393	37	2.5	2.8 **	23	2.9 ***	38	2.7 *	18
		4	Very much	25	18	817	25	83	30	6,897	22		∇		V		∇	
			Total	139	100	3,302	100	280	100	30,720	100							
b. Speaking clearly and	pgspeak	1	Very little	21	15	435	13	26	9	3,682	12							
effectively		2	Some	42	30	944	29	78	28	9,160	30							
		3	Quite a bit	50	36	1,138	34	97	35	10,814	35	2.6	2.7	11	2.8 *	25	2.7	11
		4	Very much	26	19	788	24	79	28	7,073	23				∇			
			Total	139	100	3,305	100	280	100	30,729	100							
c. Thinking critically and	d pgthink	1	Very little	4	3	115	3	9	3	946	3							
analytically		2	Some	18	13	524	16	45	16	4,131	13							
		3	Quite a bit	50	36	1,182	36	68	24	10,858	35	3.3	3.2	.09	3.3	06	3.3	.01
		4	Very much	67	48	1,484	45	159	57	14,795	48							
			Total	139	100	3,305	100	281	100	30,730	100							
d. Analyzing numerical	pganalyze	1	Very little	6	4	170	5	5	2	1,242	4							
and statistical information		2	Some	16	12	580	17	62	22	4,832	16							
mormation		3	Quite a bit	39	28	1,134	34	75	27	10,161	33	3.4	3.2 **	.23	3.2	.14	3.2	.15
		4	Very much	78	56	1,431	43	139	49	14,511	47		Δ					
			Total	139	100	3,315	100	281	100	30,746	100							

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Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	S				Sta	itistical	Comparis	sons ^k		
Engineering												-			Your seniors c	ompared w	vith	
				.	- 1-					NSSE 2016	5&	Tennessee Tech	.	Class	THEODA	C	NCCE 2010	0.0047
the second s	Variable			Tennessee	lecn	Carnegie Ci	ass	THEC Peer G	roup	2017		Tennessee Tech	Carnegi	E Class	THEC Pee	r Group Effect	NSSE 2016	Effect
Item wording or description	name ¹	Values'	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
e. Acquiring job- or work-	pgwork	1	Very little	10	7	303	9	25	9	2,579	8							
related knowledge and		2	Some	32	23	725	22	61	22	6,987	23							
skills		3	Quite a bit	47	34	1,084	33	88	31	10,522	34	3.0	3.0	.03	3.0	.00	3.0	.04
		4	Very much	50	36	1,197	36	106	38	10,665	35							
			Total	139	100	3,309	100	280	100	30,753	100							
f. Working effectively	pgothers	1	Very little	5	4	202	6	13	5	1,735	6							
with others		2	Some	21	15	767	23	64	23	6,592	21							
		3	Quite a bit	54	39	1,224	37	95	34	11,943	39	3.2	3.0 **	.24	3.1	.16	3.0 *	.21
		4	Very much	59	42	1,113	34	108	39	10,479	34		Δ				Δ	
			Total	139	100	3,306	100	280	100	30,749	100							
g. Developing or	pgvalues	1	Very little	19	14	538	16	58	21	4,951	16							
clarifying a personal code of values and		2	Some	36	26	997	30	82	29	8,963	29							
ethics		3	Quite a bit	52	37	977	30	71	25	9,658	31	2.7	2.6	.08	2.5	.15	2.6	.08
		4	Very much	32	23	799	24	69	25	7,171	23							
			Total	139	100	3,311	100	280	100	30,743	100							
h. Understanding people	pgdiverse	1	Very little	19	14	646	20	50	18	5,453	18							
of other backgrounds		2	Some	45	32	1,032	31	105	37	10,114	33							
(economic, racial/ethnic, political,		3	Quite a bit	45	32	948	29	78	28	8,901	29	2.6	2.5	.11	2.4	.18	2.5	.10
religious, nationality,		4	Very much	30	22	678	21	48	17	6,257	20							
etc.)			Total	139	100	3,304	100	281	100	30,725	100							
i. Solving complex real-	pgprobsolve	1	Very little	9	6	374	11	30	11	2,872	9							
world problems		2	Some	30	22	838	25	69	25	7,415	24							
		3	Quite a bit	42	30	1,079	33	71	25	10,494	34	3.1	2.8 **	.25	2.9	.14	2.9 *	.18
		4	Very much	58	42	1,018	31	111	40	9,975	32		Δ				Δ	
			Total	139	100	3,309	100	281	100	30,756	100							
j. Being an informed and	pgcitizen	1	Very little	27	20	736	22	68	24	6,699	22							
active citizen		2	Some	50	36	1,165	35	103	37	10,728	35							
		3	Quite a bit	37	27	802	24	55	20	8,190	27	2.4	2.4	.04	2.3	.07	2.4	.05
		4	Very much	24	17	593	18	55	20	4,984	16							
			Total	138	100	3,296	100	281	100	30,601	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istributior	IS				Sta	atistical	l Compari	sons ^k		
Engineering															Your seniors o	ompared v	vith	
Lingineering										NSSE 2016	5&							
				Tennessee 7	ſech	Carnegie C	lass	THEC Peer G	iroup	2017		Tennessee Tech	Carneg	ie Class	THEC Pee	er Group	NSSE 201	6 & 2017
Item wording	Variable													Effect		Effect		Effect
or description	name ¹	Values'	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
18. How would you eva	luate your enti	re educa	tional experience at th	nis institution	?													
	evalexp	1	Poor	3	2	146	4	14	5	1,157	4							
		2	Fair	24	18	488	15	36	13	4,423	14							
		3	Good	55	40	1,499	45	126	45	13,898	45	3.2	3.1	.08	3.1	.04	3.1	.04
		4	Excellent	55	40	1,179	36	105	37	11,287	37							
			Total	137	100	3,312	100	281	100	30,765	100							
19. If you could start ov	ver again, wou	ld you go	to the same institution	<i>i</i> you are nov	v atte	ending?												
	sameinst	1	Definitely no	7	5	219	7	20	7	1,723	6							
		2	Probably no	22	16	515	16	33	12	4,226	14							
		3	Probably yes	52	37	1,387	42	110	39	12,983	42	3.2	3.1	.10	3.2	.00	3.1	.03
		4	Definitely yes	59	42	1,192	36	118	42	11,886	39							
			Total	140	100	3,313	100	281	100	30,818	100							



En	gineering					First-۱	/ear	Students	а						Seni	ors ^a			
										NSSE 2016	5&							NSSE 201	6&
				Tennessee -	Tech	Carnegie C	lass	THEC Peer G	iroup	2017		Tennessee 1	Геch	Carnegie C	lass	THEC Peer G	iroup	2017	
	Item wording	Variable				<u> </u>		- ·		- ·			~	<u> </u>		- ·			
20a.	or description How many majors do	name MAJnum	Response options One	Count 98	% 96	Count 2,395	% 89	214	% 86	21,982	% 86	Count 133	% 95		% 89	Count 252	% 89	27,078	<u>%</u> 88
20a.	you plan to complete?	WAJIUII		98		,								· ·					
	(Do not count minors.)		More than one Total	4 102	4 100	306 2,701	11 100	34 248	14 100	3,630 25,612	14 100	7 140	5 100	369 3,325	11 100	30 282	11 100	3,805 30,883	12 100
	Einst main an anna ata 4	MATGuete -1		102	0	,													
	First major or expected first major, in NSSE's	MAJfirstcol	Arts & Humanities Biological Sci., Agriculture,	0	0	42	2	5	2	917	4	0	0	37	1	6	2	943	3
	default related-major	(Recoded from	& Natural Resources	1	1	4	0	0	0	83	0	0	0	7	0	1	0	97	0
	categories.	MAJfirst.)	Physical Sci., Mathematics,	20	20	501	22	70	21	5 007	22	15	11	522	16	(2)	22	5 205	17
	(This does not reflect		& Computer Science	20	20	591	22	78	31	5,907	23	15	11	532	16	63	22	5,395	17
	any customization		Social Sciences	0	0	5	0	2	1	81	0	1	1	6	0	1	0	83	0
	made for the Major		Business	0	0	19	1	1	0	205	1	1	1	24	1	1	0	295	1
	Field Report.)		Communications, Media,	0	0	5	0	0	0	48	0	0	0	13	0	0	0	71	0
	1 /		& Public Relations	0	0		0		0		0	0	0	2	0	0	0	17	0
			Education	0	0	1	0	0	0	14	0	0	0	2	0	0	0	17	0
			Engineering	80	78	1,663	62	145	58	15,950	62	120	86		61	179	63	19,832	64
			Health Professions	0	0	5	0	÷	0	37	0	0	0	6	0	0	0	40	0
			Social Service Professions	0	0	13	0	1	0	87	0	0	0	27	1	1	0	189	1
			All Other	1	1	352	13	16	6	2,273	9	3	2	631	19	30	11	3,915	13
			Undecided, Undeclared	0	0	1	0	-	0	9	0	0	0	0	0	0	0	4	0
			Total	102	100	2,701	100	248	100	25,611	100	140	100	,	100	282	100	30,881	100
	Second major or	MAJsecondcol	Arts & Humanities	0	0	31	10	3	9	403	11	0	0	20	5	2	7	320	8
	expected second major, in NSSE's default	(Recoded from	Biological Sci., Agriculture, & Natural Resources	0	0	8	3	1	3	103	3	0	0	7	2	0	0	80	2
	related-major	MAJsecond.)	Physical Sci., Mathematics,																
	categories.		& Computer Science	0	0	74	24	10	29	1,135	31	2	29	84	23	10	33	1,068	28
	0		Social Sciences	0	0	5	2	0	0	145	4	0	0	16	4	1	3	154	4
	(This does not reflect any customization		Business	0	0	30	10	6	18	305	8	1	14	27	7	2	7	313	8
	made for the Major		Communications, Media,	0	0	6	2	0	0	38	1	0	0	1	0	1	3	31	1
	Field Report.)		& Public Relations	-	0	0	-				-	-		1					
	• '		Education	0	0	4	1	0	0	29	1	0	0	3	1	0	0	19	1
			Engineering	3	75	105	35	11	32	1,009	28	3	43	103	28	4	13	1,007	27
			Health Professions	0	0	7	2	0	0	32	1	0	0	4	1	1	3	42	1
			Social Service Professions	0	0	8	3	0	0	50	1	0	0	10	3	1	3	76	2
			All Other	1	25	24	8	3	9	324	9	1	14	82	22	6	20	607	16
			Undecided, Undeclared	0	0	1	0	0	0	43	1	0	0	12	3	2	7	69	2
			Total	4	100	303	100	34	100	3,616	100	7	100	369	100	30	100	3,786	100



En	gineering					First-Y	'ear	Students	9					S	enio	ors ^a			
										NSSE 2016	5&							NSSE 2016	5&
				Tennessee T	Tech	Carnegie Cl	ass	THEC Peer G	roup	2017		Tennessee T	ech	Carnegie Cla	ss .	THEC Peer G	iroup	2017	
	Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
21.	What is your class	class	Freshman/First-year	86	84	2,271	85	209	85	22,576	89	0	0	12	0	2	1	100	0
	level?		Sophomore	16	16	350	13	33	13	2,335	9	2	1	68	2	4	1	519	2
			Junior	0	0	40	1	3	1	361	1	8	6	394	12	36	13	4,204	14
			Senior	0	0	7	0	0	0	81	0	118	86	2,747	83	233	83	25,295	82
			Unclassified	0	0	9	0	0	0	113	0	9	7	84	3	6	2	647	2
			Total	102	100	2,677	100	245	100	25,466	100	137	100	3,305	100	281	100	30,765	100
22.	Thinking about this	fulltime	No	0	0	102	4	12	5	884	3	18	13	683	21	66	23	5,362	18
	current academic term,		Yes	102	100	2,562	96	233	95	24,469	97	120	87	2,608	79	215	77	25,215	82
	are you a full-time		Total	102	100	2,664	100	245	100	25,353	100	138	100	3,291	100	281	100	30,577	100
	student?																		
23a.	How many courses are	coursenum	0	0	0	11	0	1	0	90	0	7	5	149	5	4	1	768	2
	you taking for credit		1	0	0	23	1	2	1	185	1	1	1	141	4	10	4	1,002	3
	this current academic term?		2	0	0	44	2	3	1	397	2	3	2	282	9	28	10	2,103	7
			3	0	0	95	4	16	6	1,090	4	8	6	377	11	48	17	3,382	11
			4	24	24	681	25	73	30	7,123	28	29	21	910	28	92	33	8,988	29
			5	50	49	1,098	41	78	32	9,730	38	50	36	803	24	37	13	8,327	27
			6	22	22	451	17	34	14	4,216	17	28	20	358	11	23	8	3,609	12
			7 or more	6	6	278	10	40	16	2,648	10	12	9	286	9	40	14	2,591	8
			Total	102	100	2,681	100	247	100	25,479	100	138	100	3,306	100	282	100	30,770	100
b.	Of these, how many are	onlinenum	0	91	89	2,230	84	211	86	21,831	86	129	94	2,263	69	219	78	23,594	77
	entirely online ?		1	11	11	254	10	22	9	2,218	9	7	5	467	14	42	15	3,961	13
			2	0	0	75	3	5	2	625	2	1	1	244	7	5	2	1,572	5
			3	0	0	35	1	5	2	245	1	0	0	118	4	9	3	658	2
			4	0	0	41	2	3	1	199	1	0	0	95	3	1	0	429	1
			5	0	0	7	0	0	0	63	0	0	0	40	1	1	0	152	0
			6	0	0	7	0	0	0	50	0	0	0	28	1	1	0	110	0
			7 or more	0	0	14	1	0	0	98	0	0	0	34	1	2	1	154	1
			Total	102	100	2,663	100	246	100	25,329	100	137	100	3,289	100	280	100	30,630	100
	Collapsed recode of	onlinecrscol	No courses taken online	91	89	2,230	84	211	86	21,829	86	129	94	2,263	69	219	78	23,594	77
	courses taken online		Some courses taken online	11	11	317	12	28	11	2,687	11	8	6	593	18	53	19	4,857	16
	(Based on responses to		All courses taken online	0	0	116	4	7	3	811	3	0	0	433	13	8	3	2,178	7
	coursenum and onlinenum.)		Total	102	100	2,663	100	246	100	25,327	100	137	100	3,289	100	280	100	30,629	100



Er	gineering					First-Y	'ear	Students	а					9	ieni	i ors ^a			
				Tennessee ⁻	Tech	Carnegie Cl	lass	THEC Peer G	iroup	NSSE 2016 2017	5&	Tennessee 1	Tech	Carnegie Cl		THEC Peer G	oup	NSSE 2016 2017	5&
	Item wording	Variable												0					
24.	or description What have most of your	name grades	Response options C- or lower	Count 2	%	Count 50	% 2	Count 6	%	Count 414	2	Count 3	%	Count 23	%	Count	%	Count 147	<u>%</u> 0
24.	grades been up to now	grades	C- of lower	2	2	30 75	2		4	707	2	8	2 6	23 71	2	6	2	764	2
	at this institution?		C C+	2	2	134	5		4 5	1,069	4	8	5	179	5	20	2	1,480	5
			B-	11	11	154	6		5	1,009	4	17	12	249	8	20 31	11	2,398	8
			B	22	22	507	19		17	4,771	19	32	23	660	20		20	6,332	21
			B B+	11	11	495	19		21	4,771	19	15	11	600	18		19	5,764	19
			A-	16	16	501	19		16	5,184	20	15	11	603	18	42	15	5,704	19
			A	35	34	757	28		30	7,116	28	40	29	920	28	71	25	8,126	26
			Total	102	100	2,676	100		100	25,423	100	137	100	3,305	100		100	30,719	100
25.	Did you begin college	begincol	Started here	95	95	2,432	91		88	23,340	92	70	51	1.679	51	159	57	18,138	59
	at this institution or	6	Started elsewhere	5	5	243	9		12	2,074	8	66	49	1,623	49		43	12,557	41
	elsewhere?		Total	100	100	2,675	100		100	25,414	100	136	100	3,302	100	281	100	30,695	100
26.	Since graduating from	attend voc	Vocational or technical school	0	0	116	4		4	810	3	6	4	320	10		12	2,163	7
	high school, which of	attend com	Community or junior college	8	8	208	8	20	8	1,995	8	59	44	1,327	40		32	11,320	37
	the following types of schools have you	attend_col	4-year college or university other than this one	4	4	245	9	30	12	2,028	8	34	25	967	29	88	31	7,477	24
	attended other than the	attend_none	None	87	85	2,066	78	187	76	20,180	80	54	40	1,245	38	116	41	13,691	45
	one you are now attending? (Select all that apply.)	attend_other	Other	2	2	115	4	7	3	956	4	2	1	157	5	10	4	1,281	4
27.	What is the highest level of education you	edaspire	Some college but less than a bachelor's degree	1	1	163	6	13	5	1,268	5	4	3	225	7	26	9	1,608	5
	ever expect to		Bachelor's degree (B.A., B.S., etc.)	50	49	1,087	41	111	45	9,549	38	56	41	1,332	40	137	49	11,878	39
	complete?		Master's degree (M.A., M.S., etc.)	38	37	1,094	41	85	34	10,918	43	56	41	1,355	41	79	28	13,144	43
			Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	13	13	326	12	38	15	3,622	14	21	15	388	12	40	14	4,069	13
			Total	102	100	2,670	100	247	100	25,357	100	137	100	3,300	100	282	100	30,699	100



Respondent Profile: Engineering Tennessee Technological University

En	gineering					First-Y	ear	Students	а					S	enic	ors ^a			
										NSSE 2016								NSSE 2016	5&
				Tennessee T	Гech	Carnegie Cl	ass	THEC Peer G	roup	2017		Tennessee T	ech	Carnegie Cla	ss T	THEC Peer G	iroup	2017	
	Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
28.	What is the highest	parented	Did not finish high school	4	4	142	5		4	1,222	5	6	4	191	6	7	2	1,529	5
	level of education	1	High school diploma or G.E.D.	20	20	435	16		21	3,516	14	21	15	582	18	49	17	4,637	15
	completed by either of		Attended college, but did not																
	your parents (or those		complete degree	10	10	261	10	32	13	2,124	8	9	7	334	10	28	10	2,630	9
	who raised you)?		Associate's degree (A.A., A.S., etc.)	3	3	210	8	15	6	1,957	8	17	12	335	10	24	9	2,734	9
			Bachelor's degree (B.A., B.S., etc.)	37	36	815	31	70	28	8,110	32	51	37	1,047	32	108	38	9,840	32
			Master's degree (M.A., M.S., etc.)	16	16	622	23	53	21	6,173	24	18	13	599	18	40	14	6,700	22
			Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	12	12	178	7	17	7	2,188	9	15	11	206	6	25	9	2,517	8
			Total	102	100	2,663	100	247	100	25,290	100	137	100	3,294	100	281	100	30,587	100
	First-generation status (Neither parent holds a	firstgen	Not first-generation	65	64	1,615	61	140	57	16,471	65	84	61	1,852	56	173	62	19,057	62
	bachelor's degree.)	(Recoded from parented.)	First-generation	37	36	1,048	39	107	43	8,819	35	53	39	1,442	44	108	38	11,530	38
		parenteu.)	Total	102	100	2,663	100	247	100	25,290	100	137	100	3,294	100	281	100	30,587	100
29.	What is your gender	genderid	Man	85	83	1,877	70	169	69	17,355	68	105	77	2,392	73	213	76	21,640	71
	identity?		Woman	16	16	723	27	73	30	7,405	29	24	18	807	24	62	22	8,052	26
			Another gender identity	1	1	37	1	1	0	315	1	4	3	42	1	4	1	398	1
			I prefer not to respond	0	0	30	1	3	1	301	1	3	2	56	2	2	1	570	2
			Total	102	100	2,667	100	246	100	25,376	100	136	100	3,297	100	281	100	30,660	100
30.	Enter your year of birth	agecat	19 or younger	92	90	2,317	87	215	87	22,113	88	0	0	14	0	1	0	250	1
	(e.g., 1994):	(Recoded	20-23	10	10	202	8	19	8	1,963	8	92	69	1,836	56	155	56	19,835	65
		from the	24-29	0	0	51	2	8	3	476	2	32	24	694	21	71	25	5,658	19
		information	30-39	0	0	58	2	4	2	390	2	7	5	462	14	37	13	3,036	10
		entered in	40-55	0	0	27	1	0	0	226	1	1	1	236	7	13	5	1,448	5
		birthyear.)	Over 55	0	0	3	0	1	0	27	0	2	1	29	1	2	1	149	0
			Total	102	100	2,658	100	247	100	25,195	100	134	100	3,271	100	279	100	30,376	100
31a.	Are you an	internat	No	95	94	2,445	92		94	22,937	91	125	92	3,094	94	261	93	28,582	94
	international student?		Yes	6	6	210	8	14	6	2,292	9	11	8	183	6	20	7	1,917	6
			Total	101	100	2,655	100	246	100	25,229	100	136	100	3,277	100	281	100	30,499	100
	[If answered "yes"]	countrycol	Africa Sub-Saharan	1	20	22	11	1	8	197	9	0	0	13	8	2	11	145	8
	Country of citizenship, collapsed into regions	(Recoded from	Asia	0	0	68	34	9	69	1,036	48	5	45	62	36	6	32	844	47
	by NSSE. Responses to	country.)	Canada	0	0	3	1	0	0	29	1	0	0	2	1	0	0	34	2
	country are in the data		Europe	1	20	15	7		8	151	7	1	9	12	7	1	5	128	7
	file.		Latin America and Caribbean	1	20	31	15	0	0	403	19	0	0	25	14	1	5	269	15
			Middle East and North Africa	2	40	63	31	2	15	330	15	5	45	58	34	9	47	367	20
			Oceania	0	0	0	0		0	20	1	0	0	1	1	0	0	10	1
			Unknown region/uncoded	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
·			Total	5	100	202	100	13	100	2,166	100	11	100	173	100	19	100	1,797	100

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Engineering						First-Y	'ear	Students	а		Seniors ^a									
						NSSE 2016										NSSE 2016	5&			
	there we add a second			Tennessee 1	Гech	Carnegie Class		THEC Peer Group		2017		Tennessee Tech		Carnegie Class		THEC Peer Group		2017		
	Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
32.	What is your racial or	re_amind	American Indian or Alaska Native	1	1	45	2		2	486	2	0	0	51	2	4	1	527	2	
	ethnic identification?	re asian	Asian	4	4	316	12		9	3,984	16	8	6	325	10	16	6	4,015	13	
	(Select all that apply.)	re black	Black or African American	8	8	373	14		27	2,339	9	4	3	354	11	48	17	2,020	7	
		re_latino	Hispanic or Latino	5	5	413	16	12	5	3,357	13	3	2	405	12	9	3	3,387	11	
		re_pacific	Native Hawaiian or Other Pacific Islander	0	0	39	1	3	1	292	1	2	1	24	1	2	1	270	1	
		re_white	White	87	85	1,573	59	144	58	15,869	63	110	81	2,118	64	199	71	20,516	67	
		re_other	Other	1	1	89	3	10	4	737	3	3	2	107	3	8	3	878	3	
		re_pnr	I prefer not to respond	1	1	99	4	8	3	843	3	9	7	178	5	11	4	1,523	5	
	Racial or ethnic	re_all	American Indian or Alaska Native	0	0	6	0	1	0	78	0	0	0	8	0	1	0	126	0	
	identification	(Recoded from	Asian	4	4	246	9	16	6	3,287	13	6	4	258	8	14	5	3,327	11	
		re_amind to	Black or African American	6	6	306	12	57	23	1,853	7	3	2	303	9	45	16	1,675	5	
		re_pnr	Hispanic or Latino	3	3	307	12	7	3	2,367	9	3	2	305	9	6	2	2,426	8	
		where each student is	Native Hawaiian/Other Pac. Islander	0	0	9	0	0	0	72	0	0	0	6	0	0	0	63	0	
		represented only	White	82	80	1,405	53	133	54	14,062	56	109	80	1,945	59	191	68	18,680	61	
		once.)	Other	1	1	56	2	7	3	464	2	3	2	62	2	5	2	566	2	
			Multiracial	5	5	224	8	18	7	2,224	9	3	2	225	7	8	3	2,151	7	
			I prefer not to respond	1	1	99	4	8	3	843	3	9	7	178	5	11	4	1,523	5	
			Total	102	100	2,658	100	247	100	25,250	100	136	100	3,290	100	281	100	30,537	100	
33.	Are you a member of a	greek	No	95	93	2,518	95	219	89	23,335	92	126	93	2,991	91	249	89	27,290	89	
	social fraternity or sorority?		Yes	7	7	145	5	26	11	1,958	8	9	7	295	9	30	11	3,275	11	
			Total	102	100	2,663	100	245	100	25,293	100	135	100	3,286	100	279	100	30,565	100	
34.	Which of the following	living	Residence hall, dormitory or other	82	80	1,612	61	151	62	16,793	67	15	11	417	13	35	13	4,686	15	
	best describes where you are living while		camp. Fraternity or sorority house	0	0	23	1	3	1	269	1	2	1	48	1	2	1	676	2	
	attending college?		Residence (house, apartment, etc.)	0	0	25	1	3	1	209	1	2	1	48	1	2	1	070	2	
			within walking distance to the	5	5	197	7	25	10	1,895	8	56	41	655	20	66	24	8,528	28	
			institution Residence (house, apartment, etc.)																	
			farther than walking distance to the institution	13	13	677	26	59	24	5,268	21	58	43	1,883	57	167	60	15,049	49	
			None of the above	2	2	136	5	6	2	992	4	4	3	279	9	10	4	1,590	5	
			Total	102	100	2,645	100	244	100	25,217	100	135	100	3,282	100	280	100	30,529	100	
35.	Are you a student-	athlete	No	99	97	2,519	95	236	96	23,416	93	135	100	3,167	97	275	98	29,249	96	
	athlete on a team		Yes	3	3	128	5	9	4	1,775	7	0	0	114	3	5	2	1,248	4	
	sponsored by your institution's athletics		Total	102	100	2,647	100	245	100	25,191	100	135	100	3,281	100	280	100	30,497	100	
	department?																			



Engineering			First-Y	ear	Students	а		Seniors ^a										
							NSSE 2016 &							NSSE 2016	6&			
				Tech	Carnegie Cl	THEC Peer G	2017		Tennessee Tech		Carnegie Cla	ss 1	THEC Peer G	roup	2017			
Item wording	Variable			- 1	. .	- /						- /						
or description 36. Are you a current or	name veteran	Response options No	Count 99	% 98	Count 2,562	% 97	Count 241	% 98	Count 24,206	% 96	Count 131	% 96	Count 2,977	% 91	Count 259	% 93	Count 27,912	% 92
former member of the	votorum	Yes	2	2	2,302	3	6	2	1,017	4	5	4	301	9	20	7	2,585	8
U.S. Armed Forces,		Total	101	100	2,648	100	247	100	25,223	100	136	100	3,278	100	20	100	30,497	100
Reserves, or National Guard?			101	100	2,010	100	2.17	100	20,220	100	100	100	5,270	100		100	50,157	100
37a. Have you been	disability	No	90	88	2,289	86	221	90	21,994	87	118	87	2,802	85	240	86	26,183	86
diagnosed with any		Yes	11	11	272	10	17	7	2,405	10	12	9	360	11	29	10	3,286	11
disability or		I prefer not to respond	1	1	100	4	8	3	871	3	5	4	130	4	11	4	1,121	4
impairment?		Total	102	100	2,661	100	246	100	25,270	100	135	100	3,292	100	280	100	30,590	100
b. <i>[If answered "yes"]</i> Which of the following	dis_sense	A sensory impairment (vision or hearing)	1	9	50	19	3	18	459	19	0	0	71	20	3	10	482	15
has been diagnosed?	dis_mobility	A mobility impairment	1	9	14	5	1	6	151	6	1	8	33	9	3	10	323	10
(Select all that apply.)	dis_learning	A learning disability (e.g., ADHD, dyslexia)	5	45	138	51	11	65	1,167	49	11	92	151	42	16	55	1,540	47
	dis_mental	A mental health disorder	3	27	71	26	2	12	706	30	1	8	107	30	7	24	1,032	32
	dis_other	A disability or impairment not listed above	1	9	53	20	2	12	435	18	0	0	90	25	7	24	687	21
Disability or	disability_all	A sensory impairment	1	1	32	1	2	1	311	1	0	0	42	1	2	1	289	1
impairment	(Recoded from disability and dis_sense to	A mobility impairment	1	1	9	0	1	0	85	0	0	0	14	0	1	0	155	1
		A learning disability	5	5	104	4	9	4	856	3	10	7	112	3	13	5	1,132	4
		A mental health disorder	3	3	41	2	1	0	402	2	1	1	60	2	4	1	589	2
	dis_other where	A disability or impairment not listed	1	1	36	1	2	1	291	1	0	0	60	2	5	2	454	1
	each student is represented only	More than one disability or impairment	0	0	48	2	2	1	443	2	1	1	72	2	4	1	641	2
	once.)	No disability or impairment	90	88	2,289	86	221	90	21,994	87	118	87	2,802	85	240	86	26,183	86
		Prefer not to respond	1	1	100	4	8	3	871	3	5	4	130	4	11	4	1,121	4
		Total	102	100	2,659	100	246	100	25,253	100	135	100	3,292	100	280	100	30,564	100
38. Which of the following	sexorient17	Straight (heterosexual)	92	91	1,403	86	72	95	14,545	87	116	85	1,783	87	52	87	18,272	87
best describes your		Bisexual	4	4	71	4	0	0	635	4	2	1	58	3	1	2	636	3
sexual orientation?		Gay	0	0	26	2	0	0	213	1	2	1	38	2	1	2	330	2
		Lesbian	0	0	10	1	1	1	103	1	0	0	17	1	1	2	134	1
		Queer	0	0	4	0	0	0	82	0	1	1	6	0	0	0	75	0
		Questioning or unsure	3	3	20	1	0	0	224	1	1	1	10	0	0	0	149	1
		Another sexual orientation	1	1	35	2	2	3	289	2	6	4	30	1	1	2	318	2
		I prefer not to respond	1	1	69	4	1	1	635	4	8	6	111	5	4	7	997	5
		Total	101	100	1,638	100	76	100	16,726	100	136	100	2,053	100	60	100	20,911	100



Engineering					First-Y	ear	Students	а		Seniors ^a									
									NSSE 2016	8							NSSE 201	6&	
			Tennessee Tech		Carnegie Cl	THEC Peer Group		2017		Tennessee Tech		Carnegie Cl	THEC Peer O	HEC Peer Group					
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
stitution-reported in																			
ariables provided by your in	nstitution in your NS	SE population file.)																	
Institution-reported:	IRsex	Female	16	16	758	28	76	31	7,625	30	25	18	831	25	62	22	8,256	27	
Sex		Male	86	84	1,943	72	172	69	17,984	70	115	82	2,494	75	220	78	22,627	73	
		Total	102	100	2,701	100	248	100	25,609	100	140	100	3,325	100	282	100	30,883	100	
Institution-reported:	IRrace	American Indian or Alaska Native	0	0	7	0	2	1	86	0	1	1	14	0	2	1	131	0	
Race or ethnicity		Asian	4	4	189	7	8	3	2,123	9	5	4	190	6	7	2	2,390	9	
		Black or African American	6	6	290	11	62	25	1,617	7	4	3	272	9	44	16	1,426	5	
		Hispanic or Latino	0	0	358	14	5	2	2,661	12	0	0	345	11	4	1	2,786	10	
		Native Hawaiian/Other Pac. Islander	0	0	0	0	0	0	40	0	1	1	3	0	0	0	36	0	
		White	84	82	1,373	53	134	54	12,777	57	124	89	1,856	60	191	68	17,025	63	
		Other	0	0	0	0	0	0	9	0	0	0	0	0	0	0	5	0	
		Foreign or nonresident alien	0	0	176	7	16	6	1,785	8	0	0	144	5	22	8	1,526	6	
		Two or more races/ethnicities	7	7	82	3	10	4	806	4	1	1	88	3	4	1	826	3	
		Unknown	1	1	92	4	11	4	710	3	4	3	169	5	8	3	1,031	4	
		Total	102	100	2,567	100	248	100	22,614	100	140	100	3,081	100	282	100	27,182	100	
Institution-reported:	IRclass	Freshman/First-Year	102	100	2,701	100	248	100	25,612	100	0	0	0	0	0	0	0	0	
Class level		Sophomore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Senior	0	0	0	0	0	0	0	0	140	100	3,325	100	282	100	30,884	100	
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Total	102	100	2,701	100	248	100	25,612	100	140	100	3,325	100	282	100	30,884	100	
Institution-reported:	IRftfy	Not first-time first-year	11	11	357	13	40	16	2,687	10	140	100	3,324	100	282	100	30,636	99	
First-time first-year		First-time first-year	91	89	2,344	87	208	84	22,918	90	0	0	1	0	0	0	248	1	
(FTFY) student		Total	102	100	2,701	100	248	100	25,605	100	140	100	3,325	100	282	100	30,884	100	
Institution-reported:	IRenrollment	Not full-time	0	0	129	5	9	4	1,202	5	13	9	612	18	63	22	4,945	16	
Enrollment status		Full-time	102	100	2,572	95	239	96	24,410	95	127	91	2,713	82	219	78	25,939	84	
		Total	102	100	2,701	100	248	100	25,612	100	140	100	3,325	100	282	100	30,884	100	



Endnotes: Engineering

Tennessee Technological University

Endnotes

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

Key to symbols:

- **Your students' average** was significantly higher (p < .05) with an effect size at least .3 in magnitude.
- Δ Your students' average was significantly higher (p < .05) with an effect size less than .3 in magnitude.
- ∇ Your students' average was significantly lower (p < .05) with an effect size less than .3 in magnitude.
- **Your students' average** was significantly lower (p < .05) with an effect size at least .3 in magnitude.
- Note: It is important to interpret the direction of differences relative to item wording and your institutional context.

Reference: Rocconi, L., & Gonyea, R. M. (2015). Contextualizing student engagement effect sizes: An empirical analysis. Paper presented at the Association for Institutional Research Annual Forum, Denver, CO.