Tennessee Technological University NSSE 2016 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; Chemical engineering; Civil engineering; Computer engineering and technology; Computer science; Electrical or electronic engineering; Industrial engineering; Information technology; Materials engineering; Mechanical engineering; Other computer science and technology; Other engineering; Software engineering.



Note:

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



NSSE 2016 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 institution-level comparisons may not capture important variation in student engagement that can be found within key subpopulations such as major. This report displays selected results for students at your institution and at your selected comparison institutions in the major category: Engineering.

NSSE results included in MFR, Part II

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

Related-Major Groups

Self-reported majors (first major given if two were reported) were identified from the survey. Your institution had the option to customize how these were grouped, using up to ten related-major groups. Institutions choosing not to customize their related-major groups 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.

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 20 respondents in a given class are not reported (columns are blank). Comparison groups must also contain at least 20 respondents in the major category, or they remain blank. Although 20 is a minimum requirement, 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, the Major Field Report results are unweighted.

Report Sections

Engagement Indicators (pp. 3-7)	Results on NSSE's ten Engagement Indicators (EIs) organized into four themes. See your Engagement Indicators report for more details.
High-Impact Practices (p. 8)	Results on student participation in six High-Impact Practices (HIPs). See your High-Impact Practices report for more details.
Frequencies and Statistical Comparisons (pp. 9-44)	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 (pp. 45-51)	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 for your students in this related-major category with students in your comparison groups within the same category.

Use the following key:

- ▲ Your students' average was significantly higher (p<.05) with an effect size at least .3 in magnitude.
- △ Your students' average was significantly higher (p<.05) with an effect size less than .3 in magnitude.
- -- No significant difference.
- **▼ Your students' average** was significantly lower (p<.05) with an effect size less than .3 in magnitude.
- ▼ Your students' average was significantly lower (p<.05) with an effect size at least .3 in magnitude.

		First-Y	ear Students in Engin	eering		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 2015 & 2016	Carnegie Class	THEC Peer Group	NSSE 2015 & 2016
	Higher-Order Learning					V	
Academic	Reflective & Integrative Learning		lacksquare				
Challenge	Learning Strategies					•	
	Quantitative Reasoning						
Learning with	Collaborative Learning	Δ					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

Engineering	Mea	n statistics			Percer	ntile ^d scores			C	Comparison re	sults	
		SD ^b								Mean	Sia. ^f	Effect
Academic Challenge	Mean	SD	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	diff.	Sig.*	size ^g
•												
Higher-Order Learning	20.0	10.5	1.57	20	25	40	4.5	60				
Tennessee Tech $(N = 74)$	38.0	13.5	1.57	20	25	40	45	60	2.100			0.52
Carnegie Class	38.8	13.5	.30	15	30	40	50	60	2,109	8		062
THEC Peer Group	41.0	14.5	1.10	15	33	40	55	60	244	-3.1		217
NSSE 2015 & 2016	38.4	13.1	.10	20	30	40	45	60	15,844	4		034
Reflective & Integrative Learning												
Tennessee Tech $(N = 76)$	31.7	10.6	1.22	17	26	31	37	54				
Carnegie Class	33.8	12.2	.27	14	26	34	40	57	83	-2.1		174
THEC Peer Group	35.8	12.7	.97	14	26	34	46	60	171	-4.1	**	338
NSSE 2015 & 2016	33.2	11.9	.09	14	26	31	40	54	76	-1.5		130
Learning Strategies												
Tennessee Tech $(N = 73)$	39.2	13.8	1.62	20	27	40	53	60				
Carnegie Class	36.8	14.0	.31	13	27	40	47	60	2,115	2.4		.171
THEC Peer Group	40.2	13.4	1.03	20	33	40	53	60	240	-1.1		078
NSSE 2015 & 2016	36.5	13.7	.11	13	27	33	47	60	15,914	2.6		.192
Quantitative Reasoning												
Tennessee Tech $(N = 76)$	29.0	15.8	1.81	0	17	27	40	60				
Carnegie Class	30.8	15.6	.34	7	20	27	40	60	2,137	-1.8		116
THEC Peer Group	32.6	15.1	1.15	7	20	33	40	60	247	-3.6		236
NSSE 2015 & 2016	30.7	15.2	.12	7	20	27	40	60	16,064	-1.7		110
Learning with Peers												
Collaborative Learning												
Tennessee Tech $(N = 77)$	37.5	12.0	1.37	15	30	40	45	60				
Carnegie Class	34.6	14.7	.33	10	25	35	45	60	85	2.9	*	.202
THEC Peer Group	36.8	15.9	1.22	10	25	35	50	60	191	.7		.048
NSSE 2015 & 2016	35.3	14.2	.11	15	25	35	45	60	77	2.3		.161
Discussions with Diverse Others												
Tennessee Tech $(N = 75)$	39.5	13.6	1.57	20	30	40	50	60				
Carnegie Class	39.4	16.4	.36	10	30	40	55	60	82	.1		.007
THEC Peer Group	40.1	16.9	1.29	10	30	40	60	60	174	6		036
NSSE 2015 & 2016	40.1	15.8	.12	15	30	40	55	60	75	5		035



Engagement Indicators: Engineering

Tennessee Technological University

First-year students^a in Engineering

Engineering	Mea	n statistics			Percei	ntile ^d scores			(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 $(N = 76)$	17.2	13.8	1.59	0	5	15	25	45				
Carnegie Class	18.9	14.3	.32	0	10	15	25	45	2,126	-1.7		118
THEC Peer Group	20.0	16.4	1.25	0	10	15	30	60	247	-2.7		175
NSSE 2015 & 2016	18.7	13.9	.11	0	10	15	25	45	15,925	-1.5		107
Effective Teaching Practices												
Tennessee Tech $(N = 76)$	35.6	13.1	1.51	12	28	36	42	56				
Carnegie Class	39.0	13.2	.29	16	32	40	48	60	2,153	-3.4	*	257
THEC Peer Group	41.2	13.4	1.02	20	32	40	52	60	247	-5.6	**	424
NSSE 2015 & 2016	38.6	12.8	.10	16	32	40	48	60	16,169	-3.0	*	236
Campus Environment												
Quality of Interactions												
Tennessee Tech $(N = 73)$	41.8	11.5	1.35	22	38	44	50	60				
Carnegie Class	41.7	12.3	.28	18	34	43	50	60	2,029	.1		.008
THEC Peer Group	41.9	13.4	1.02	16	34	44	52	60	243	1		011
NSSE 2015 & 2016	42.5	11.7	.09	20	36	44	50	60	15,400	7		057
Supportive Environment												
Tennessee Tech $(N = 76)$	32.1	13.0	1.49	13	21	31	40	55				
Carnegie Class	35.9	13.7	.30	13	25	37	45	60	2,135	-3.9	*	282
THEC Peer Group	36.9	13.9	1.06	13	30	38	48	60	247	-4.8	*	351
NSSE 2015 & 2016	36.3	13.2	.10	15	28	38	45	60	16,038	-4.2	**	321



Engagement Indicators: Engineering

Tennessee Technological University

Seniors^a in

Engineering	Mea	n statistics			Percer	ntile ^d scores	;		C	Comparison re	sults	
		SD ^b								Mean	f	Effect
Academic Challenge	Mean	SD	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	diff.	Sig. ^f	size ^g
•												
Higher-Order Learning	26.2	146	1.50	10	25	40	4.5					
Tennessee Tech $(N = 91)$	36.3	14.6	1.53	10	25	40	45	60	2.202	2.5		405
Carnegie Class	39.0	13.8	.29	15	30	40	50	60	2,382	-2.7		197
THEC Peer Group	40.7	14.3	.95	15	30	40	55	60	312	-4.4	*	303
NSSE 2015 & 2016	38.3	13.7	.10	15	30	40	50	60	18,948	-2.0		143
Reflective & Integrative Learning												
Tennessee Tech $(N = 94)$	30.8	11.9	1.22	11	23	29	40	51				
Carnegie Class	33.1	12.3	.26	14	26	31	40	57	2,424	-2.3		187
THEC Peer Group	33.5	12.2	.80	14	26	31	40	57	320	-2.7		227
NSSE 2015 & 2016	32.7	12.2	.09	14	23	31	40	54	19,306	-1.9		156
Learning Strategies												
Tennessee Tech $(N = 94)$	33.0	15.2	1.57	7	20	33	40	60				
Carnegie Class	35.9	15.2	.32	13	27	33	47	60	2,399	-2.9		188
THEC Peer Group	38.9	15.8	1.04	7	27	40	53	60	321	-5.8	**	372
NSSE 2015 & 2016	35.2	14.9	.11	13	27	33	47	60	19,055	-2.2		146
Quantitative Reasoning												
Tennessee Tech $(N = 94)$	36.5	16.8	1.74	0	27	40	53	60				
Carnegie Class	33.2	16.3	.34	7	20	33	40	60	2,425	3.3		.202
THEC Peer Group	34.7	15.4	1.02	7	27	33	47	60	322	1.8		.114
NSSE 2015 & 2016	34.2	16.2	.12	7	20	33	47	60	19,262	2.3		.144
Learning with Peers												
Collaborative Learning												
Tennessee Tech $(N = 95)$	41.3	12.8	1.31	20	35	40	50	60				
Carnegie Class	36.4	15.0	.31	10	25	35	50	60	105	4.9	***	.329
THEC Peer Group	38.9	13.9	.93	15	30	40	50	60	319	2.4		.174
NSSE 2015 & 2016	37.4	14.6	.11	15	25	40	50	60	95	3.9	**	.265
Discussions with Diverse Others												
Tennessee Tech $(N = 95)$	39.8	15.6	1.60	15	25	40	55	60				
Carnegie Class	40.5	17.0	.35	10	30	40	60	60	2,411	7		044
THEC Peer Group	42.6	15.8	1.04	15	35	45	60	60	323	-2.8		177
NSSE 2015 & 2016	40.0	16.5	.12	10	30	40	55	60	19,179	2		010



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 $(N = 91)$	24.5	13.9	1.46	0	15	25	35	50				
Carnegie Class	21.9	15.5	.32	0	10	20	30	50	2,395	2.5		.163
THEC Peer Group	24.4	15.3	1.01	5	15	20	35	55	319	.1		.004
NSSE 2015 & 2016	21.9	15.4	.11	0	10	20	30	50	19,104	2.5		.164
Effective Teaching Practices												
Tennessee Tech $(N = 94)$	36.7	14.0	1.44	4	28	40	48	56				
Carnegie Class	37.7	13.9	.29	16	28	40	48	60	2,435	-1.1		075
THEC Peer Group	38.6	14.1	.93	12	32	40	48	60	323	-1.9		133
NSSE 2015 & 2016	37.1	13.5	.10	16	28	36	48	60	19,378	4		032
Campus Environment												
Quality of Interactions												
Tennessee Tech $(N = 93)$	41.4	12.9	1.34	12	35	44	52	60				
Carnegie Class	42.0	11.5	.24	20	35	43	50	60	2,312	6		052
THEC Peer Group	41.9	11.3	.75	20	36	44	50	60	315	5		041
NSSE 2015 & 2016	41.7	11.5	.08	20	34	42	50	60	18,546	3		026
Supportive Environment												
Tennessee Tech $(N = 93)$	28.9	13.6	1.41	5	20	30	38	53				
Carnegie Class	30.1	14.6	.30	8	20	30	40	58	2,411	-1.2		081
THEC Peer Group	29.5	14.6	.97	5	20	30	40	58	318	6		041
NSSE 2015 & 2016	30.9	14.0	.10	8	20	30	40	58	19,238	-2.0		144



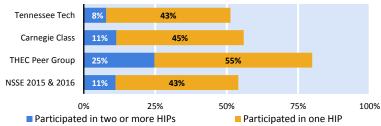
High-Impact Practices: Engineering

Tennessee Technological University

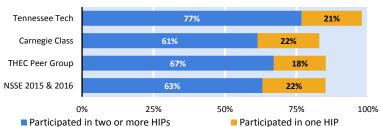
Overall HIP Participation^a

The figures below display the percentage of students who participated in High-Impact Practices. Both figures include participation in a learning community, service-learning, 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 of students who participated in at least two HIPs, and the full bar (both colors) represents the percentage who participated in at least one.





Seniors in Engineering



Statistical Comparisons^a

The table below compares the percentage of your students who participated in a High-Impact Practice, including the percentage who participated overall (at least one, two or more), with those at institutions in your comparison groups.

	Tennessee Tech	Carı	negie Class		THEC	Peer Group		NSSE	2015 & 201	16
First-Year Students in Engineering	%	% ⁱ	Ef	fect size ^j	% ⁱ	Effec	t size ^j	% ⁱ		Effect size ^j
11c. Learning community	8	15		23	25 **		48	16		24
12. Service-learning	47	50		05	76 ***		59	46		.04
11e. Research with faculty	5	5	I	.03	8		11	6	I .	01
Participated in at least one	51	56		09	80 ***		61	54		05
Participated in two or more	8	11		12	25 **		47	11		11
Seniors in Engineering										
11c. Learning community	23	24		01	25		05	24		02
12. Service-learning	53	48		.09	63		20	44		.17
11e. Research with faculty	26	23		.07	23		.09	27		02
11a. Internship or field exp.	62	56		.13	55		.14	57		.11
11d. Study abroad	12	7		.16	7		.18	10		.05
11f. Culminating senior exp.	65	49 **		.33	49 **		.33	53 *		.25
Participated in at least one	98	83 ***		.56	85 ***		.50	85 ***		.50
Participated in two or more	77	61 **		.34	67		.22	63 **		.30



Frequencies and Statistical Comparisons: Engineering

First-Year Stude	ents ^a in					Frequer	ncy D	istribution	S				Sta	atistical	Comparis	sons ^k		
Engineering														Your j	first-year stud	ents compo	red with	
				_						NSSE 2015	5 &	T Tb				_		
	Variable			Tennessee 1	ech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegi		THEC Pee		NSSE 2015	
Item wording or description	Variable name ^l	Values"	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
. During the current scho	ool year, abou	t how o	often have you done th	e following?														
a. Asked questions or	askquest	1	Never	3	4	79	4	4	2	615	4							
contributed to course		2	Sometimes	29	38	764	37	54	31	6,233	39							
discussions in other ways		3	Often	30	39	737	35	64	37	5,785	36	2.7	2.8	07	2.9	24	2.8	02
ways		4	Very often	15	19	502	24	51	29	3,494	22							
			Total	77	100	2,082	100	173	100	16,127	100							
b. Prepared two or more	drafts	1	Never	19	25	416	20	42	24	3,156	20							
drafts of a paper or		2	Sometimes	22	29	778	37	55	32	6,060	38							
assignment before turning it in		3	Often	22	29	579	28	45	26	4,441	28	2.4	2.4	.01	2.4	.00	2.4	.00
turning it in		4	Very often	13	17	302	15	32	18	2,408	15							
			Total	76	100	2,075	100	174	100	16,065	100							
Come to class without	unpreparedr	1	Very often	4	5	124	6	14	8	810	5							
completing readings or	Reverse-coded	2	Often	10	13	250	12	25	14	2,171	14							
assignments	version of	3	Sometimes	40	53	1,128	54	88	51	9,107	57	3.1	3.0	.02	3.0	.10	3.0	.05
or.	unprepared eated by NSSE.)	4	Never	22	29	573	28	47	27	3,973	25							
	euieu by NSSE.)		Total	76	100	2,075	100	174	100	16,061	100							
d. Attended an art exhibit,	attendart	1	Never	22	29	900	43	73	42	6,727	42							
play or other arts performance (dance,		2	Sometimes	30	39	777	37	59	34	6,231	39							
music, etc.)		3	Often	21	27	282	14	30	17	2,199	14	2.1	1.8 **	.31	1.9	.22	1.8 **	.30
		4	Very often	4	5	119	6	12	7	906	6						Δ	
			Total	77	100	2,078	100	174	100	16,063	100							
e. Asked another student	CLaskhelp	1	Never	2	3	189	9	12	7	1,217	8							
to help you understand course material		2	Sometimes	16	21	721	35	60	35	5,385	33							
course material		3	Often	37	48	713	34	49	28	5,856	36	3.0	2.7 ***	.37	2.8	.23	2.7 **	.32
		4	Very often	22	29	455	22	52	30	3,633	23		A				A	
			Total	77	100	2,078	100	173	100	16,091	100							
f. Explained course material to one or more	CLexplain	1	Never	5	6	90	4	6	3	546	3							
students		2	Sometimes	14	18	657	32	55	32	4,928	31	2.0						
		3	Often	38	49	841	40	65	38	6,704	42	2.9	2.8	.14	2.9	.08	2.9	.10
		4	Very often	20	26	490	24	47	27	3,901	24							
			Total	77	100	2,078	100	173	100	16,079	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	ents ^a in					Frequen	cy Di	stribution	S				Sta	atistical	Comparis	ons ^k		
Engineering														Your f	irst-year stude	ents compo	ared with	
										NSSE 2015	5 &							
				Tennessee T	ech	Carnegie Cla	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegi		THEC Pee	•	NSSE 201	
Item wording or description	Variable name ^l	Values "	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
g. Prepared for exams by	CLstudy	1	Never	10	13	338	16	23	13	2,128	13							
discussing or working		2	Sometimes	17	22	660	32	45	26	5,250	33							
through course material with other students		3	Often	31	40	598	29	54	31	5,015	31	2.8	2.6	.18	2.8	.00	2.6	.13
with other students		4	Very often	19	25	474	23	51	29	3,702	23							
			Total	77	100	2,070	100	173	100	16,095	100							
h. Worked with other	CLproject	1	Never	6	8	140	7	13	8	876	5							
students on course		2	Sometimes	19	25	649	31	44	25	5,214	32							
projects or assignments		3	Often	39	51	759	37	57	33	6,186	38	2.8	2.8	05	2.9	19	2.8	04
		4	Very often	13	17	529	25	59	34	3,809	24							
			Total	77	100	2,077	100	173	100	16,085	100							
i. Given a course	present	1	Never	16	21	397	19	38	22	3,537	22							
presentation		2	Sometimes	33	43	1,003	48	82	47	7,787	48							
		3	Often	23	30	484	23	33	19	3,462	22	2.2	2.2	01	2.2	.02	2.2	.08
		4	Very often	5	6	194	9	20	12	1,296	8							
			Total	77	100	2,078	100	173	100	16,082	100							
2. During the current sch	ool vear, abo	ut how o	often have you done th	e following?														*
a. Combined ideas from	RIintegrate	1	Never	9	12	150	7	9	5	1,027	6							
different courses when	, ,	2	Sometimes	30	39	805	39	66	39	6,515	41							
completing assignments		3	Often	29	38	766	37	56	33	6,009	37	2.5	2.6	17	2.7 *	29	2.6	16
		4	Very often	9	12	352	17	40	23	2,521	16				▽			
			Total	77	100	2,073	100	171	100	16,072	100				•			
b. Connected your	RIsocietal	1	Never	11	14	263	13	23	13	2,069	13							
learning to societal		2	Sometimes	39	51	909	44	73	43	7,264	45							
problems or issues		3	Often	20	26	618	30	50	29	4,844	30	2.3	2.4	16	2.5	17	2.4	12
		4	Very often	7	9	273	13	25	15	1,823	11							
			Total	77	100	2,063	100	171	100	16,000	100							
c. Included diverse	RIdiverse	1	Never	11	14	311	15	24	14	2,652	17							
perspectives (political,		2	Sometimes	38	50	864	42	80	47	7,090	44							
religious, racial/ethnic,		3	Often	23	30	661	32	45	26	4,535	28	2.3	2.4	15	2.4	15	2.3	08
gender, etc.) in course discussions or		4	Very often	4	5	232	11	23	13	1,757	11							
assignments			Total	76	100	2,068	100	172	100	16,034	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	dents ^a in					Frequer	cy D	istribution	S				St	atistical	Comparis	ons ^k		
Engineering														Your	first-year stude	nts compo	ared with	
								TUE 0 0		NSSE 2015	5 &	Tonnoccoo Task			T 11505		NOOE 00 1	- 0 00:
the area of the area	Variable			Tennessee 1	ech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Tech	Carneg	Effect	THEC Peer	Group Effect	NSSE 201	5 & 2016 Effect
Item wording or description	name ^I	Values '	" Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size"	Mean	size "
d. Examined the strengths	RIownview	1	Never	5	6	128	6	7	4	1,033	6							
and weaknesses of		2	Sometimes	23	30	706	34	63	36	5,581	35							
your own views on a topic or issue		3	Often	40	52	873	42	60	35	6,740	42	2.7	2.7	03	2.8	14	2.7	.00
topic of issue		4	Very often	9	12	361	17	43	25	2,661	17							
			Total	77	100	2,068	100	173	100	16,015	100							
e. Tried to better	RIperspect	1	Never	3	4	94	5	7	4	762	5							
understand someone		2	Sometimes	26	34	629	30	34	20	5,005	31							
else's views by imagining how an issue		3	Often	38	50	860	42	77	46	6,897	43	2.7	2.8	17	3.0 **	40	2.8	13
looks from his or her		4	Very often	9	12	484	23	51	30	3,354	21				▼			
perspective			Total	76	100	2,067	100	169	100	16,018	100							
f. Learned something that	RInewview	1	Never	3	4	86	4	9	5	644	4							
changed the way you		2	Sometimes	30	39	685	33	50	29	5,589	35							
understand an issue or concept		3	Often	35	46	877	43	65	38	6,782	42	2.6	2.8	19	2.9 *	30	2.8	16
сопсері		4	Very often	8	11	408	20	48	28	2,979	19				▼			
			Total	76	100	2,056	100	172	100	15,994	100							
g. Connected ideas from	RIconnect	1	Never	1	1	40	2	2	1	274	2							
your courses to your		2	Sometimes	19	25	486	24	30	18	3,665	23							
prior experiences and knowledge		3	Often	40	53	902	44	67	39	7,523	47	2.9	3.0	12	3.2 **	38	3.0	11
kilowiedge		4	Very often	16	21	631	31	72	42	4,514	28				▼			
			Total	76	100	2,059	100	171	100	15,976	100							
3. During the current scl	hool year, abo	ut how	often have you done th	e following?														
a. Talked about career	SFcareer	1	Never	26	34	586	28	58	34	4,380	27							
plans with a faculty member		2	Sometimes	32	42	946	46	69	40	7,568	47							
member		3	Often	12	16	357	17	27	16	2,857	18	2.0	2.1	10	2.0	07	2.1	10
		4	Very often	6	8	183	9	19	11	1,233	8							
			Total	76	100	2,072	100	173	100	16,038	100							
b. Worked with a faculty	SFotherwork	1	Never	40	53	1,101	53	80	46	8,358	52							
member on activities		2	Sometimes	22	29	578	28	52	30	4,869	30							
other than coursework (committees, student		3	Often	8	11	283	14	26	15	1,939	12	1.7	1.7	.04	1.9	13	1.7	.04
groups, etc.)		4	Very often	6	8	104	5	15	9	838	5							
· ·			Total	76	100	2,066	100	173	100	16,004	100							



Frequencies and Statistical Comparisons: Engineering

								103300		11110106	icui	Offiversity						
First-Year Stud	ents ^a in					Frequer	ıcy Di	stribution	S				St	atistical	Compari	sons ^k		
Engineering			T	·l-	Campania Cl		TUEC Daar C		NSSE 2015	&	Tennessee Tech	C		first-year stud	·		. 0 201	
				Tennessee T	ecn	Carnegie Ci	ass	THEC Peer G	roup	2016		Tellilessee Tech	Carneg		THEC Pee		NSSE 2015	
Item wording or description	Variable name ^l	Values ^r	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size "	Mean	Effect size "
c. Discussed course	SFdiscuss	1	Never	28	37	684	33	62	36	5,239	33							
topics, ideas, or		2	Sometimes	34	45	882	43	67	39	7,024	44							
concepts with a faculty member outside of		3	Often	12	16	372	18	28	16	2,696	17	1.8	2.0	16	2.0	16	2.0	15
class		4	Very often	2	3	134	6	16	9	1,035	6							
			Total	76	100	2,072	100	173	100	15,994	100							
d. Discussed your	SFperform	1	Never	26	34	591	29	57	33	4,521	28							
academic performance		2	Sometimes	35	46	940	45	62	36	7,637	48							
with a faculty member		3	Often	12	16	390	19	33	19	2,797	18	1.9	2.0	18	2.1	22	2.0	15
		4	Very often	3	4	151	7	21	12	1,025	6							
			Total	76	100	2,072	100	173	100	15,980	100							
. During the current sch	ool year, how	much h	as your coursework e	mphasized the	e follo	wing?												
a. Memorizing course	memorize	1	Very little	0	0	90	4	6	3	760	5							
material		2	Some	17	23	611	29	53	31	4,807	30							
		3	Quite a bit	39	52	911	44	73	42	7,182	45	3.0	2.8 *	.23	2.9	.22	2.8 **	.26
		4	Very much	19	25	465	22	40	23	3,318	21		Δ				Δ	
			Total	75	100	2,077	100	172	100	16,067	100							
b. Applying facts,	HOapply	1	Very little	0	0	64	3	7	4	420	3							
theories, or methods to		2	Some	14	19	391	19	28	16	2,837	18							
practical problems or new situations		3	Quite a bit	31	41	938	45	61	35	7,340	46	3.2	3.1	.17	3.2	.01	3.1	.13
new situations		4	Very much	30	40	683	33	77	45	5,444	34							
			Total	75	100	2,076	100	173	100	16,041	100							
c. Analyzing an idea,	HOanalyze	1	Very little	1	1	88	4	9	5	564	4							
experience, or line of		2	Some	21	28	467	23	27	16	3,793	24							
reasoning in depth by		3	Quite a bit	29	39	867	42	66	38	6,918	43	3.0	3.0	.02	3.2	16	3.0	.03
examining its parts		4	Very much	24	32	643	31	71	41	4,716	29							
			Total	75	100	2,065	100	173	100	15,991	100							
d. Evaluating a point of	HOevaluate	1	Very little	8	11	113	5	9	5	1,094	7							
view, decision, or		2	Some	23	31	595	29	50	29	5,120	32							
information source		3	Quite a bit	27	36	879	43	60	35	6,477	40	2.7	2.8	17	2.9	25	2.8	07
		4	Very much	16	22	478	23	53	31	3,321	21							
			Total	74	100	2,065	100	172	100	16,012	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	ents ^a in					Frequer	icy D	istribution	S				Sta	tistical	Comparis	ons ^k		
Engineering														Your f	first-year stude	nts compo	ared with	
				T 7		C		TUE C D C		NSSE 2015	8	Tennessee Tech	C	Cl	THECO		NICCE 204F	0.2016
Item wording	Variable			Tennessee 1	ecn	Carnegie Ci	ass	THEC Peer G	roup	2016		Termessee Tech	Carnegie	Effect	THEC Peer	Effect	NSSE 2015	& 2016 Effect
or description	name ^l	Values ⁿ	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
e. Forming a new idea or	HOform	1	Very little	7	9	106	5	7	4	874	5							
understanding from		2	Some	22	29	596	29	48	28	4,614	29							
various pieces of information		3	Quite a bit	31	41	852	41	65	38	6,834	43	2.7	2.9	16	2.9	26	2.8	13
mornation		4	Very much	15	20	513	25	53	31	3,678	23							
			Total	75	100	2,067	100	173	100	16,000	100							
. During the current sch	ool year, to w	hat exte	nt have your instructo	ors done the f	ollowi	ng?												
a. Clearly explained	ETgoals	1	Very little	5	7	46	2	4	2	357	2							
course goals and		2	Some	14	18	408	20	26	15	3,157	20							
requirements		3	Quite a bit	37	49	929	45	68	39	7,629	47	2.9	3.1	19	3.2 **	36	3.1	16
		4	Very much	20	26	696	33	75	43	4,947	31				•			
			Total	76	100	2,079	100	173	100	16,090	100							
b. Taught course sessions	ETorganize	1	Very little	2	3	68	3	6	3	437	3							
in an organized way		2	Some	14	18	396	19	26	15	3,085	19							
		3	Quite a bit	39	51	943	45	71	41	7,696	48	3.0	3.1	03	3.2	18	3.1	02
		4	Very much	21	28	668	32	70	40	4,845	30							
			Total	76	100	2,075	100	173	100	16,063	100							
c. Used examples or	ETexample	1	Very little	4	5	69	3	2	1	484	3							
illustrations to explain		2	Some	20	27	418	20	33	19	3,191	20							
difficult points		3	Quite a bit	25	33	857	41	51	29	6,969	43	3.0	3.1	13	3.3 **	37	3.1	13
		4	Very much	26	35	732	35	87	50	5,399	34				▼			
			Total	75	100	2,076	100	173	100	16,043	100							
d. Provided feedback on a	ETdraftfb	1	Very little	15	20	206	10	20	12	1,522	9							
draft or work in		2	Some	26	34	625	30	43	25	5,101	32							
progress		3	Quite a bit	27	36	719	35	66	38	5,663	35	2.4	2.8 ***	41	2.8 **	43	2.7 ***	39
		4	Very much	8	11	523	25	44	25	3,757	23		V		▼		▼	
			Total	76	100	2,073	100	173	100	16,043	100							
e. Provided prompt and	ETfeedback	1	Very little	9	12	181	9	10	6	1,383	9							
detailed feedback on		2	Some	27	36	625	30	57	33	5,064	32							
tests or completed assignments		3	Quite a bit	27	36	797	38	59	34	6,208	39	2.6	2.7	19	2.8	27	2.7	16
assignments		4	Very much	13	17	468	23	46	27	3,362	21							
			Total	76	100	2,071	100	172	100	16,017	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	dents ^a in					Frequen	cy D	istribution	S				Sta	itistical	Comparis	sons ^k		
Engineering														Your f	first-year stud	ents compo	ared with	
Linginicering										NSSE 2015	5 &							
				Tennessee 1	Tech	Carnegie Cla	iss	THEC Peer Gi	roup	2016		Tennessee Tech	Carnegie		THEC Pee		NSSE 2015	
Item wording or description	Variable name ^l	Values"	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
5. During the current s					70	Count	70	Count	70	Count		Wedii	Weari	3126	Weun	3120	WEUII	3120
a. Reached conclusions	ORconclude	1	Never	8	11	142	7	6	3	967	6							
based on your own	•	2	Sometimes	22	29	594	29	47	27	4,653	29							
analysis of numerical		3	Often	31	41	838	40	76	44	6,621	41	2.7	2.8	14	2.9	26	2.8	15
information (numbers,		4	Very often	15	20	502	24	44	25	3,857	24							
graphs, statistics, etc.)			Total	76	100	2,076	100	173	100	16,098	100							
b. Used numerical	QRproblem	1	Never	19	25	399	19	23	13	3,118	19							
information to examine		2	Sometimes	23	30	780	38	61	35	6,167	38							
a real-world problem or	•	3	Often	25	33	587	28	58	34	4,600	29	2.3	2.4	08	2.6	26	2.4	05
issue (unemployment, climate change, public		4	Very often	9	12	311	15	31	18	2,197	14							
health, etc.)			Total	76	100	2,077	100	173	100	16,082	100							
neutili, etc.)			70.00	, 0	100	2,077	100	1,5	100	10,002	100							
c. Evaluated what others	QRevaluate	1	Never	14	18	323	16	28	16	2,419	15							
have concluded from	QKevaluate	2	Sometimes	29	38	852	41	67	39	6,654	41							
numerical information		3	Often	26	34	611	29	55	32	4,959	31	2.3	2.4	08	2.4	09	2.4	08
		4	Very often	7	9	286	14	23	13	2,026	13	2.0	2.4	00	2.4	09	2.4	00
		7	Total	76	100	2,072	100	173	100	16,058	100							
. During the current s	chool year about	how r										nclude these not v	et complet	tod)				
a. Up to 5 pages	wrshortnum	0	None	13	17	110	5 5	23	14	945	6	nerude those not y	ct compict	icu.)				
u. Op to 5 pages		1.5	1-2	20	27	407	20	46	27	3,434	22							
	(Recoded version of wrshort created	4	3-5	20	27	656	32	53	31	5,306	33							
	by NSSE. Values	8	6-10	15	20	497	24	31	18	3,561	22	4.5	6.6 ***	37	4.9	07	6.2 **	31
	are estimated	13	11-15	5	7	199	10	7	4	1,412	9		▼	.57	1.2	.07	₩.	.51
	number of papers,	18	16-20	0	0	93	5	4	2	615	4		•				•	
	reports, etc.)	23	More than 20	2	3	92	4	6	4	666	4							
		20	Total	75	100	2,054	100	170	100	15,939	100							
b. Between 6 and 10	wrmednum	0		45	62	743	37	90	55	5,768	37							
pages	(Recoded version	1.5	1-2	14	19	747	37	50	30	6,216	40							
	of wrmed created	4	3-5	8	11	328	16	14	8	2,389	15							
	by NSSE. Values	8	6-10	4	5	128	6	9	5	801	5	1.6	2.1	17	1.4	.05	2.0	13
	are estimated	13	11-15	1	1	26	1	1	1	203	1							
	number of papers,	18	16-20	1	1	9	0	0	0	61	0							
	reports, etc.)	23	More than 20	0	0	12	1	1	1	79	1							
			Total	73	100	1,993	100	165	100	15,517	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	ıdents ^a in					Frequenc	cy Dis	tribution	5				Sta	atistical	Comparis	ons ^k		
ngineering														Your f	irst-year stude	nts compo	ared with	
ingineering										NSSE 2015	&							
				Tennessee 1	ech	Carnegie Cla	ss Th	HEC Peer G	oup	2016		Tennessee Tech	Carnegi		THEC Pee		NSSE 2015	
Item wording or description	Variable name ^l	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	65	88	1,481	76	144	87	11,602	76	ivieuri	ivieuri	3126	ivieuri	3126	ivieuri	3126
	(Recoded version	1.5	1-2	3	4	321	16	11	7	2,592	17							
	of wrlong created	4	3-5	2	3	65	3	3	2	480	3							
	by NSSE. Values	8	6-10	0	0	37	2	3	2	264	2	1.0	.9	.02	.8	.05	.8	.09
	are estimated	13	11-15	3	4	31	2	3	2	143	1							
	number of papers, reports, etc.)	18	16-20	0	0	10	1	0	0	46	0							
	1 , ,	23	More than 20	1	1	10	1	2	1	62	0							
			Total	74	100	1,955	100	166	100	15,189	100							
Estimated number of	wrpages																	
assigned pages of												39.1	48.9	15	31.8	.12	45.1	10
student writing.			led and summed by NSSE															
	from wrshort, wrmeestimated pages of		~															
) D						- f 4l f-1	n											
a. People of a race or	DDrace	t now (often have you had dise Never	2	peop 1	115	nowing 6	g groups: 11	6	848	5							
ethnicity other than	DDIacc	2	Sometimes	23	31	530	26	40	23	4,063	25							
your own		3	Often	24	32	612	29	49	28	4,953	31	3.0	3.0	05	3.1	09	3.0	05
		4	Very often	26	35	821	40	74	43	6,239	39	3.0	3.0	05	3.1	09	3.0	03
		-	Total	75	100		100	174	100	16,103	100							
b. People from an	DDeconomic	1	Never	3	4	138	7	15	9	810	5							
economic background		2	Sometimes	17	23	481	23	40	23	3,742	23							
other than your own		3	Often	34	45	720	35	48	28	5,678	35	3.0	3.0	02	3.0	03	3.0	06
		4	Very often	21	28	738	36	71	41	5,838	36		2.0	.02	2.0	.05	5.0	.00
			•															
			Total	75	100	2,077	100	174	100	16,068	100							
c. People with religious	DDreligion	1	Total Never	75 3	100	2,077	100	174 11	100	16,068	7							
c. People with religious beliefs other than your	_	1 2								-								
	_		Never	3	4	170	8	11	6	1,136	7	2.9	2.9	.00	3.0	04	3.0	04
beliefs other than your	_	2	Never Sometimes	3 21	4 28	170 547	8 26	11 48	6 28	1,136 3,971	7 25	2.9	2.9	.00	3.0	04	3.0	04
beliefs other than your	_	2	Never Sometimes Often	3 21 28	4 28 37	170 547 587 772	8 26 28	11 48 47	6 28 27	1,136 3,971 4,959	7 25 31	2.9	2.9	.00	3.0	04	3.0	04
beliefs other than your own	_	2	Never Sometimes Often Very often	3 21 28 23	4 28 37 31	170 547 587 772	8 26 28 37	11 48 47 68	6 28 27 39	1,136 3,971 4,959 6,014	7 25 31 37	2.9	2.9	.00	3.0	04	3.0	04
beliefs other than your own d. People with political views other than your	ŭ	2 3 4	Never Sometimes Often Very often Total	3 21 28 23 75	4 28 37 31 100	170 547 587 772 2,076	8 26 28 37 100	11 48 47 68 174	6 28 27 39 100	1,136 3,971 4,959 6,014 16,080	7 25 31 37 100	2.9	2.9	.00	3.0	04	3.0	04
own d. People with political	ŭ	2 3 4	Never Sometimes Often Very often Total Never	3 21 28 23 75	4 28 37 31 100 4	170 547 587 772 2,076	8 26 28 37 100 9	11 48 47 68 174	6 28 27 39 100	1,136 3,971 4,959 6,014 16,080	7 25 31 37 100	2.9	2.9	.00	3.0	04	3.0	04
beliefs other than your own d. People with political views other than your	ŭ	2 3 4	Never Sometimes Often Very often Total Never Sometimes	3 21 28 23 75 3 17	4 28 37 31 100 4 23	170 547 587 772 2,076 184 519	8 26 28 37 100 9 25	11 48 47 68 174 13 42	6 28 27 39 100 8 24	1,136 3,971 4,959 6,014 16,080 1,045 4,107	7 25 31 37 100 7 26							



Frequencies and Statistical Comparisons: Engineering

								1103300			,	Om versity						
First-Year Stud	dents ^a in					Frequer	тсу С	istribution	ıs				Sta	atistical	l Compari	sons ^k		
Engineering														Your	first-year stud	ents comp	ared with	
Linginieering										NSSE 2015	5 &							
				Tennessee 1	ech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegi	e Class	THEC Pee	•	NSSE 2015	
Item wording	Variable '										-,			Effect		Effect		Effec
or description	name'		Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size
9. During the current so		ut how o		e following?	8	65	3		3	452	2							
information from	LSreading	2	Never Sometimes	19	26	65 520	25	6	3 24	453 3,980	3 25							
reading assignments		3	Often	32	43	908	44	41 74	43		46	2.8	2.0	10	2.0	22	2.0	1/
		3 4	Very often	32 17	23	581	28	53	30	7,401 4,226	26	2.0	3.0	19	3.0	22	3.0	19
		4	Total	74	100	2,074	100	174	100	16,060	100							
b. Reviewed your notes	LSnotes	1	Never	2	3	117	6		4	902	6							
after class	Lishotes	2	Sometimes	17	23	668	32		18	5,328	33							
		3	Often	25	34	726	35	66	38	5,600	35	3.1	2.8 **	.32	3.1	01	2.8 **	.34
		4	Very often	30	41	559	27	68	40	4,192	26	3.1	2.8	.32	5.1	01	2.8	.34
		-	Total	74	100	2,070	100	172	100	16,022	100							
c. Summarized what you	LSsummary	1	Never	3	4	153	7		5	1,220	8							
learned in class or from	25541111417	2	Sometimes	24	32	721	35	52	31	5,576	35							
course materials		3	Often	22	30	741	36		35	5,808	36	2.9	2.7 *	.25	2.9	.04	2.7 *	.20
		4	Very often	25	34	439	21	50	29	3,330	21	2.5	Δ	.23	2.7	.01	Δ	.20
			Total	74	100	2,054	100	170	100	15,934	100		_				_	
10. During the current s	rahaal waan ta	rubat and	tout have your source	ahallangad v	ov to	do vous bost	············	I-0										
10. During the current s	challenge	wnat ext	Not at all	0	0 u to 0	do your besi 17	wor 1	2	1	89	1							
	chancinge	2	Not at all	1	1	27	1	4	2	213	1							
		3		0	0	91	4	6	3	594	4							
		4		4	5	224	11	17	10	1,597	10	5.8	5.4 ***	.33	5.6	.23	5.5 **	.29
		5		20	26	670	32	48	28	5,126	32	2.0	J.4	.55	5.0	.23	Δ	.2,
		6		31	41	604	29	48	28	5,046	31						_	
		7	Very much	20	26	436	21	49	28	3,416	21							
			Total	76	100	2,069	100	174	100	16,081	100							
11. Which of the followi	ing have you do	ne or d	o vou plan to do befor	e von gradna	e?°	·				·								
a. Participate in an	intern	or u	Have not decided	c you gradua	8	200	10	22	13	1,431	9							
internship, co-op, field			Do not plan to do	3	4	86	4	7	4	529	3							
experience, student	(Means indicate the percentage		Plan to do	63	83	1,639	79	132	76	12,762	79	5%	8%	10	7%	07	9%	13
teaching, or clinical	who responded		Done or in progress	4	5	158	8	132	7	1,385	9	570	0 /0	10	7 /0	07	270	1.
placement	"Done or in		Total	76	100	2,083	100	173	100	16,107	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	dents ^a in				Frequenc	y D	istribution	S				St	atistical	Compariso	ons ^k		
Engineering													Your f	irst-year studer	nts compo	ared with	
			_						NSSE 2015	8	Tananana Tanb	_			_		
_			Tennessee 1	Tech	Carnegie Clas	SS	THEC Peer Gr	oup	2016		Tennessee Tech	Carneg	ie Class	THEC Peer	•	NSSE 201	
Item wording or description	Variable name ^I	Values ^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
b. Hold a formal	leader	Have not decided	20	27	620	30	43	25	4,574	28							
leadership role in a	(Means indicate	Do not plan to do	21	28	510	25	44	25	3,801	24							
student organization or group	the percentage	Plan to do	27	36	751	36	67	39	5,913	37	9%	10%	01	11%	07	11%	06
group	who responded	Done or in progress	7	9	200	10	20	11	1,786	11							
	"Done or in progress.")	Total	75	100	2,081	100	174	100	16,074	100							
c. Participate in a learning	learncom	Have not decided	31	42	702	34	52	30	5,050	31							
community or some	(Means indicate	Do not plan to do	26	35	549	27	40	23	4,655	29							
other formal program	the percentage	Plan to do	11	15	501	24	38	22	3,785	24	8%	15%	23	25% **	48	16%	24
where groups of students take two or	who responded	Done or in progress	6	8	319	15	44	25	2,565	16				▼			
more classes together	"Done or in progress.")	Total	74	100	2,071	100	174	100	16,055	100				•			
d. Participate in a study	abroad	Have not decided	28	38	641	31	51	29	4,807	30							
abroad program	(Means indicate	Do not plan to do	32	43	728	35	60	34	5,542	35							
	the percentage	Plan to do	13	18	624	30	57	33	5,157	32	1%	4%	16	3%	14	3%	14
	who responded	Done or in progress	1	1	77	4	6	3	545	3							
	"Done or in progress.")	Total	74	100	2,070	100	174	100	16,051	100							
e. Work with a faculty	research	Have not decided	34	46	843	41	65	38	6,277	39							
member on a research	(Means indicate	Do not plan to do	10	14	341	16	26	15	2,460	15							
project	the percentage	Plan to do	26	35	791	38	68	39	6,365	40	5%	5%	.03	8%	11	6%	01
	who responded	Done or in progress	4	5	99	5	14	8	916	6							
	"Done or in progress.")	Total	74	100	2,074	100	173	100	16,018	100							
f. Complete a culminating	capstone	Have not decided	16	22	595	29	46	27	4,184	26							
senior experience	(Means indicate	Do not plan to do	7	9	157	8	11	6	1,165	7							
(capstone course,	the percentage	Plan to do	51	69	1,264	61	108	62	10,316	64	0%	3%	33	5%	43	2%	30
senior project or thesis, comprehensive exam,	who responded	Done or in progress	0	0	55	3	8	5	361	2							
portfolio, etc.)	"Done or in progress.")	Total	74	100	2,071	100	173	100	16,026	100							
2. About how many of	vour courses at	this institution have include	d a communit	v-hase	ed project (ser	vice	-learning)?										
	servcourse	1 None	40	53	1,033	50	42	24	8,698	54							
		2 Some	29	38	842	41	110	64	6,178	39							
		3 Most	6	8	150	7	14	8	899	6	1.6	1.6	03	1.9 ***	48	1.5	.07
		4 All	1	1	32	2	6	3	187	1				▼			
		Total	76	100	2,057	100	172	100	15,962	100				,			



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	ıdents ^a in					Freque	ncy D	istribution	ıs				St	tatistica	Comparis	ons ^k		
Engineering														Your	first-year stud	ents compo	ared with	
0 0				T	T l-	C	l	TUEC Daar C		NSSE 2015	5 &	Tennessee Tech	C	-:- Cl	TUEC Date		NCCE 201E	- 0 2016
Item wording	Variable			Tennessee 1	lech	Carnegie C	iass	THEC Peer G	roup	2016		Tellilessee Tech	Carne	gie Class Effect	THEC Pee	Effect	NSSE 2015	Effect
or description	name ¹	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size "	Mean	size "
13. Indicate the quality	y of your interac	ctions wit	h the following peopl	e at your inst	itutio	n.												
a. Students	QIstudent		Poor	2	3	31	1	1	1	204	1							
		2		2	3	38	2	2	1	285	2							
		3		4	5	107	5	8	5	659	4							
		4		8	11	252	12	21	12	1,600	10							
		5		27	36	501	24	32	18	3,970	25	5.2	5.5	19	5.7 *	33	5.6 *	26
		6		17	23	582	28	54	31	4,959	31				\blacksquare		∇	
		7	Excellent	15	20	559	27	54	31	4,356	27							
		_	Not applicable	0	0	14	1	2	1	95	1							
			Total	75	100	2,084	100	174	100	16,128	100							
b. Academic advisors	QIadvisor	1	Poor	4	5	68	3	4	2	537	3							
		2		1	1	104	5	9	5	756	5							
		3		3	4	163	8	18	10	1,200	7							
		4		14	19	286	14	29	17	2,179	14							
		5		15	20	390	19	22	13	3,267	20	5.2	5.2	.01	5.1	.04	5.2	.01
		6		22	29	480	23	45	26	3,597	22							
		7	Excellent	16	21	545	26	43	25	4,173	26							
		_	Not applicable	0	0	42	2	4	2	385	2							
			Total	75	100	2,078	100	174	100	16,094	100							
c. Faculty	QIfaculty	1	Poor	2	3	37	2	5	3	281	2							
		2		0	0	73	4	8	5	449	3							
		3		4	5	119	6	9	5	896	6							
		4		8	11	302	15	21	12	2,184	14							
		5		23	31	514	25	36	21	4,192	26	5.3	5.3	.06	5.3	.01	5.3	.03
		6		27	36	572	28	49	28	4,594	29							
		7	Excellent	11	15	426	21	45	26	3,270	20							
		_	Not applicable	0	0	28	1	1	1	177	1							
			Total	75	100	2,071	100	174	100	16,043	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	irst-year stude	nts compo	ared with	
-1161116611116										NSSE 2015	8							
				Tennessee 1	Tech	Carnegie Cla	ass	THEC Peer G	roup	2016		Tennessee Tech	Carneg	ie 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 "
d. Student services staff	QIstaff	1	Poor	4	5	98	5	12	7	568	4							
(career services,		2		3	4	81	4	5	3	594	4							
student activities,		3		1	1	133	6	15	9	1,034	6							
housing, etc.)		4		16	21	273	13	22	13	2,049	13							
		5		17	23	419	20	35	20	3,382	21	5.1	5.0	.04	4.9	.07	5.1	03
		6		12	16	432	21	38	22	3,688	23							
		7	Excellent	18	24	368	18	34	20	3,078	19							
		_	Not applicable	4	5	271	13	11	6	1,683	10							
			Total	75	100	2,075	100	172	100	16,076	100							
e. Other administrative	QIadmin	1	Poor	5	7	106	5	15	9	623	4							
staff and offices		2		0	0	104	5	6	3	678	4							
(registrar, financial aid, etc.)		3		4	5	165	8	21	12	1,093	7							
etc.)		4		12	16	285	14	21	12	2,269	14							
		5		21	28	448	22	24	14	3,515	22	5.1	4.9	.09	4.9	.10	5.0	.01
		6		18	24	406	20	48	28	3,553	22							
		7	Excellent	13	17	377	18	36	21	2,994	19							
		_	Not applicable	2	3	191	9	3	2	1,370	9							
			Total	75	100	2,082	100	174	100	16,095	100							
4. How much does your	r institution em	phasize	the following?															
a. Spending significant	empstudy	1	Very little	3	4	35	2	1	1	244	2							
amounts of time		2	Some	16	21	335	16	24	14	2,307	14							
studying and on academic work		3	Quite a bit	29	38	922	45	76	44	7,106	44	3.1	3.2	13	3.3	25	3.2	19
academic work		4	Very much	28	37	779	38	72	42	6,367	40							
			Total	76	100	2,071	100	173	100	16,024	100							
b. Providing support to	SEacademic	1	Very little	2	3	74	4	4	2	512	3							
help students succeed		2	Some	18	24	391	19	32	18	2,791	17							
academically		3	Quite a bit	37	49	853	41	66	38	6,818	43	3.0	3.1	17	3.2 *	27	3.1	21
		4	Very much	19	25	741	36	71	41	5,843	37				∇			
			Total	76	100	2,059	100	173	100	15,964	100							
c. Using learning support	SElearnsup	1	Very little	5	7	93	5	9	5	665	4							
services (tutoring		2	Some	17	23	329	16	24	14	2,590	16							
services, writing center, etc.)		3	Quite a bit	27	36	793	38	69	40	6,076	38	3.0	3.2	20	3.2	21	3.2	22
conter, etc.)		4	Very much	26	35	845	41	71	41	6,610	41							
			Total	75	100	2,060	100	173	100	15,941	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	dents ^a in					Frequen	cy D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering										NCCE 204E				Your j	first-year stude	nts compo	ared with	
				Tennessee 1	Toch	Carnegie Cla		THEC Boor G	roun	NSSE 2015 2016	ě.	Tennessee Tech	Carnegi	io Class	THEC Peer	Group	NSSE 2015	2. 2016
Item wording	Variable			Termessee	IECII	Carriegie Cia	133	THE CT CCT O	оир	2010		reimessee reem	Carriegi	Effect	THECTEE	Effect	N33L 2013	Effect
or description	name ¹	Values '	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size "	Mean	size ⁿ
d. Encouraging contact	SEdiverse	1	Very little	14	18	248	12	20	12	1,944	12							
among students from different backgrounds		2	Some	24	32	659	32	47	27	4,922	31							
(social, racial/ethnic,		3	Quite a bit	29	38	662	32	66	38	5,393	34	2.4	2.7 *	25	2.7 *	31	2.7 *	26
religious, etc.)		4	Very much	9	12	491	24	40	23	3,719	23		∇		•		∇	
			Total	76	100	2,060	100	173	100	15,978	100							
e. Providing opportunities	SEsocial	1	Very little	7	9	140	7	9	5	863	5							
to be involved socially		2	Some	23	30	480	23	43	25	3,770	24							
		3	Quite a bit	31	41	816	40	61	35	6,494	41	2.7	2.9 *	25	3.0 *	31	3.0 *	29
		4	Very much	15	20	622	30	59	34	4,846	30		∇		•		∇	
			Total	76	100	,	100	172	100	15,973	100							
f. Providing support for	SEwellness	1	,	5	7	140	7	11	6	1,010	6							
your overall well-being (recreation, health care,		2	Some	22	29	516	25	44	25	3,683	23							
counseling, etc.)		3	Quite a bit	32	42	808	39	67	39	6,402	40	2.8	2.9	11	2.9	12	2.9	16
<u> </u>		4	Very much	17	22	591	29	51	29	4,849	30							
			Total	76	100		100	173	100	15,944	100							
g. Helping you manage	SEnonacad	1	Very little	23	30	449	22	36	21	3,425	21							
your non-academic responsibilities (work,		2	Some	27	36	756	37	58	34	5,996	38							
family, etc.)		3	Quite a bit	23	30	569	28	50	29	4,435	28	2.1	2.3 *	26	2.4 *	34	2.3 *	26
		4	Very much	3	4	280	14	28	16	2,110	13		∇		•		∇	
			Total	76	100	,	100	172	100	15,966	100							
h. Attending campus	SEactivities	1	Very little	5	7	216	11	19	11	1,332	8							
activities and events (performing arts,		2	Some	30	39	528	26	35	20	4,209	26							
athletic events, etc.)		3	Quite a bit	31	41	768	37	70	40	6,233	39	2.6	2.8	20	2.9 *	28	2.8 *	25
		4	Very much	10	13	544	26	49	28	4,162	26				∇		∇	
			Total	76	100	2,056	100	173	100	15,936	100							
i. Attending events that	SEevents	1	Very little	19	25	353	17	31	18	2,484	16							
address important social, economic, or		2	Some	27	36	732	36	57	34	5,788	36							
political issues		3	Quite a bit	21	28	602	29	51	30	5,021	32	2.3	2.5	22	2.5	22	2.5 *	24
·		4	Very much	9	12	359	18	31	18	2,628	17						∇	
			Total	76	100	2,046	100	170	100	15,921	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	dents ^a in					Frequen	су [Distribution	S				Sta	atistical	Compari	sons ^k		
Engineering														Your	first-year stua	ents comp	ared with	
88										NSSE 2015	5 &							
				Tennessee T	ech	Carnegie Cla	ass	THEC Peer G	roup	2016		Tennessee Tech	Carneg		THEC Pe		NSSE 201	
Item wording or description	Variable name ^l	Values "	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
15. About how many h						Count	/0	Count	/0	Count		IVIEUII	Weun	3126	ivieuri	3126	ivieuri	3126
a. Preparing for class	tmprephrs	0	0 hrs	0	0	12	1	2	1	75	0							
(studying, reading,	(Recoded version	3	1-5 hrs	7	9	244	12	20	12	1,671	10							
writing, doing	of tmpren created	8	6-10 hrs	13	17	434	21	37	21	3,133	20							
homework or lab work,	by NSSE. Values	13	11-15 hrs	20	27	446	21	36	21	3,387	21							
analyzing data, rehearsing, and other	are estimated	18	16-20 hrs	19	25	406	20	28	16	3,131	19	15.9	15.3	.07	15.6	.03	16.0	02
academic activities)	number of hours	23	21-25 hrs	6	8	251	12	22	13	2,115	13							
	per week.)	28	26-30 hrs	1	1	147	7	13	8	1,208	8							
		33	More than 30 hrs	9	12	136	7	15	9	1,346	8							
			Total	75	100	2,076	100	173	100	16,066	100							
b. Participating in co-	tmcocurrhrs	0	0 hrs	17	22	745	36	52	30	5,013	31							
curricular activities	(Recoded version	3	1-5 hrs	30	39	674	33	62	36	5,400	34							
(organizations, campus publications, student	of tmcocurr	8	6-10 hrs	11	14	302	15	21	12	2,713	17							
government, fraternity	created by NSSE.	13	11-15 hrs	7	9	167	8	17	10	1,381	9							
or sorority,	Values are	18	16-20 hrs	4	5	101	5	11	6	806	5	7.1	5.1 *	.31	6.2	.11	5.5	.24
intercollegiate or	estimated number of hours per	23	21-25 hrs	2	3	25	1	1	1	335	2							
intramural sports, etc.)	week.)	28	26-30 hrs	2	3	20	1	4	2	125	1							
		33	More than 30 hrs	3	4	26	1	5	3	205	1							
			Total	76	100	2,060	100		100	15,978	100							
c. Working for pay	tmworkonhrs	0	0 hrs	51	68	1,657	80	143	83	12,701	79							
on campus	(Recoded version	3	1-5 hrs	1	1	80	4	4	2	670	4							
	of tmworkon	8	6-10 hrs	15	20	125	6	•	4	1,098	7							
	created by NSSE.	13	11-15 hrs	3	4	84	4	5	3	766	5	2.5						
	Values are estimated number	18	16-20 hrs	3	4	86	4	7	4	567	4	3.5	2.4	.19	2.7	.12	2.3	.21
	of hours per	23	21-25 hrs	2	3	21	1	2	1	144	1							
	week.)	28	26-30 hrs	0	0	4	0		1	35	0							
		33	More than 30 hrs	0	0	16	1	4	2	62	0							
			Total	75	100	2,073	100	173	100	16,043	100							



Frequencies and Statistical Comparisons: Engineering

irst-Year Stu	idents ^a in					Frequer	icy D	istribution	S				Sta	atistical	Comparis	ons ^k		
ngineering														Your	first-year stude	ents comp	ared with	
										NSSE 2015	5 &							
				Tennessee 7	Tech	Carnegie Cl	ass	THEC Peer G	oup	2016		Tennessee Tech	Carneg		THEC Pee		NSSE 201	
Item wording or description	Variable name ^l	Values'	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size ⁿ	Mean	Effect size ⁿ
d. Working for pay	tmworkoffhrs	0	0 hrs	60	80	1,534	74	125	72	12,182	76							
off campus	(Recoded version	3	1-5 hrs	5	7	86	4	8	5	654	4							
	of tmworkoff	8	6-10 hrs	2	3	81	4	6	3	679	4							
	created by NSSE.	13	11-15 hrs	3	4	94	5	7	4	617	4							
	Values are	18	16-20 hrs	2	3	78	4	10	6	674	4	2.5	4.4 *	20	4.9 *	27	3.8	15
	estimated number	23	21-25 hrs	1	1	68	3	4	2	437	3		∇		∇			
	of hours per week.)	28	26-30 hrs	1	1	27	1	3	2	225	1		·		,			
	week.)	33	More than 30 hrs	1	1	96	5	10	6	492	3							
			Total	75	100	2,064	100	173	100	15,960	100							
Estimated number of	tmworkhrs																	-
hours working for pay	(Continuous variable created by NSSE)											5.9	6.7	08	7.6	14	6.0	01
e. Doing community	tmservicehrs	0	0 hrs	43	57	1,286	62	85	49	10,077	63							
service or volunteer	(Recoded version	3	1-5 hrs	21	28	540	26	67	39	4,316	27							
work	of tmservice	8	6-10 hrs	7	9	111	5	9	5	717	5							
	created by NSSE.	13	11-15 hrs	2	3	65	3	4	2	364	2							
	Values are	18	16-20 hrs	2	3	26	1	3	2	237	1	2.7	2.3	.09	3.0	06	2.1	.15
	estimated number	23	21-25 hrs	1	1	14	1	1	1	95	1							
	of hours per week.)	28	26-30 hrs	0	0	8	0	2	1	35	0							
	week.)	33	More than 30 hrs	0	0	9	0	2	1	53	0							
			Total	76	100	2,059	100	173	100	15,894	100							
f. Relaxing and	tmrelaxhrs	0	0 hrs	2	3	42	2	2	1	261	2							
socializing (time with	(Recoded version	3	1-5 hrs	12	16	396	19	37	22	2,864	18							
friends, video games,	of tmrelax created	8	6-10 hrs	20	27	477	23	35	20	4,146	26							
TV or videos, keeping up with friends online,	by NSSE. Values	13	11-15 hrs	15	20	453	22	36	21	3,379	21							
etc.)	are estimated	18	16-20 hrs	10	13	291	14	24	14	2,318	15	13.3	13.4	01	14.0	07	13.2	.01
,	number of hours	23	21-25 hrs	9	12	150	7	10	6	1,202	8							
	per week.)	28	26-30 hrs	2	3	68	3	5	3	562	4							
		33	More than 30 hrs	5	7	187	9	22	13	1,220	8							
			Total	75	100	2,064	100	171	100	15,952	100							



Frequencies and Statistical Comparisons: Engineering

First-Year Stu	dents ^a in					Frequer	ncy D	stribution	S				St	atistical	Compari	sons ^k		
Engineering										NSSE 2015	. <i>Q</i> .			Your f	first-year stud	ents comp	ared with	
				Tennessee 1	Гесһ	Carnegie C	lass	THEC Peer G	roup	2016	, Q	Tennessee Tech	Carneg	gie Class	THEC Pee	er Group	NSSE 201	5 & 2016
Item wording or description	Variable name ^I	Values "	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size ⁿ
g. Providing care for	tmcarehrs	0	0 hrs	63	83	1,597	77	142	83	12,882	81							
dependents (children,	(Recoded version	3	1-5 hrs	7	9	195	9	9	5	1,323	8							
parents, etc.)	of tmcare created	8	6-10 hrs	2	3	87	4	7	4	599	4							
	by NSSE. Values	13	11-15 hrs	0	0	58	3	7	4	415	3							
	are estimated	18	16-20 hrs	2	3	42	2	1	1	259	2	1.6	2.6	16	2.0	08	2.0	08
	number of hours per week.)	23	21-25 hrs	2	3	24	1	0	0	140	1							
	per week.)	28	26-30 hrs	0	0	9	0	2	1	59	0							
		33	More than 30 hrs	0	0	56	3	3	2	253	2							
			Total	76	100	2,068	100	171	100	15,930	100							
h. Commuting to campus	tmcommutehrs	0	0 hrs	32	42	792	38	52	31	6,424	40							
(driving, walking, etc.)	(Recoded version	3	1-5 hrs	33	43	799	39	84	49	6,162	38							
	of tmcommute	8	6-10 hrs	7	9	279	14	20	12	2,022	13							
	created by NSSE.	13	11-15 hrs	2	3	88	4	5	3	708	4							
	Values are estimated number	18	16-20 hrs	0	0	50	2	2	1	361	2	3.1	4.0	16	4.3	19	3.7	11
	of hours per	23	21-25 hrs	1	1	25	1	1	1	134	1							
	week.)	28	26-30 hrs	0	0	8	0	1	1	63	0							
		33	More than 30 hrs	1	1	25	1	5	3	141	1							
			Total	76	100	2,066	100	170	100	16,015	100							
16. Of the time you spe	end preparing for	class i	n a typical 7-day weel	k, about how i	much	is on assigne	ed read	ling?										
	reading	1	Very little	15	20	397	19	62	36	3,383	21							
	(Revised for 2014.	2	Some	35	46	857	41	62	36	6,737	42							
	Comparison data	3	About half	19	25	469	23	33	19	3,616	23	2.3	2.4	13	2.0	.22	2.3	05
	are limited to	4	Most	4	5	254	12	8	5	1,718	11							
	NSSE 2014	5	Almost all	3	4	92	4	7	4	537	3							
	participating institutions.)		Total	76	100	2,069	100	172	100	15,991	100							
	institutions.)					,				- /								
	tmreadinghrs																	
of tmprephrs bas	able created by NSSE ted on reading, where t half=.50; Most=.75	e Very lii	ttle=.10; Some=.25;									5.1	5.7	11	4.7	.09	5.7	11



Frequencies and Statistical Comparisons: Engineering

										- 0		Offiversity						
irst-Year S	tudents ^a in					Frequen	ıcy Di	stribution	5				Sta	itistical	Comparis	sons ^k		
ngineering										NSSE 2015	&	-		Your f	irst-year stud	ents compo	red with	
				Tennessee 1	Tech	Carnegie Cl	ass 1	THEC Peer G		2016		Tennessee Tech	Carnegi	e Class	THEC Pee	r Group	NSSE 2015	5 & 2016
Item wording	Variable								•					Effect		Effect		Effect
or description		Values "	· · · · · ·	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size ⁿ
	tmreadinghrscol	1	0 hrs	0	0	11	1	2	1	72	0							
	(Collapsed version of tmreadinghrs	2	More than zero, up to 5 hrs	47	63	1,219	59	121	70	9,363	59							
	created by NSSE.)	3	More than 5, up to 10 hrs	23	31	534	26	30	17	4,278	27							
		4	More than 10, up to 15 hrs	3	4	165	8	8	5	1,124	7							
		5	More than 15, up to 20 hrs	1	1	61	3	7	4	591	4							
		6	More than 20, up to 25 hrs	0	0	47	2	2	1	361	2							
		7	More than 25 hrs	1	1	24	1	2	1	131	1							
			Total	75	100	2,061	100	172	100	15,920	100							
7. How much has y	our experience at th	is insti	tution contributed to	vour knowled	σe. sk	ills, and ners	sonal d	levelonment	in the	following:	areas?							
a. Writing clearly and	pgwrite	1		18	24	217	10	22	13	1,960	12							
effectively	10	2	Some	20	26	647	31	50	29	5,144	32							
		3	Quite a bit	25	33	776	37		43		38	2.4						
								73		6,030	50	4.7	2.7 *	28	2.6	18	2.6	20
		4	Very much	13	17	435	21	26	15	6,030 2,933	18	∠. ⊤	2.7 * ▽	28	2.6	18	2.6	20
		4	Very much Total	13 76	17 100	435 2,075	21 100					2.7		28	2.6	18	2.6	20
b. Speaking clearly and	l pgspeak	1	•					26	15	2,933	18	⊿. ⊤		28	2.6	18	2.6	20
b. Speaking clearly and effectively	d pgspeak		Total	76	100	2,075	100	26 171	15 100	2,933 16,067	18 100	26.7		28	2.6	18	2.6	20
	d pgspeak	1	Total Very little	76 12	100	2,075 313	100	26 171 22	15 100 13	2,933 16,067 2,626	18 100 16	2.5		28	2.6	18	2.6	20
	i pgspeak	1 2	Total Very little Some	76 12 26	100 16 34	2,075 313 706	100 15 34	26 171 22 56	15 100 13 33	2,933 16,067 2,626 5,651	18 100 16 35		∇					
	d pgspeak	1 2 3	Total Very little Some Quite a bit	76 12 26 27	100 16 34 36	2,075 313 706 686	100 15 34 33	26 171 22 56 69	15 100 13 33 40	2,933 16,067 2,626 5,651 5,295	18 100 16 35 33		∇					
effectively c. Thinking critically a		1 2 3	Total Very little Some Quite a bit Very much	76 12 26 27 11	100 16 34 36 14	2,075 313 706 686 370	100 15 34 33 18	26 171 22 56 69 25	15 100 13 33 40 15	2,933 16,067 2,626 5,651 5,295 2,449	18 100 16 35 33 15		∇					
		1 2 3 4	Total Very little Some Quite a bit Very much Total	76 12 26 27 11 76	100 16 34 36 14 100	2,075 313 706 686 370 2,075	100 15 34 33 18 100	26 171 22 56 69 25 172	15 100 13 33 40 15 100	2,933 16,067 2,626 5,651 5,295 2,449 16,021	18 100 16 35 33 15 100	2.5	∇					
effectively c. Thinking critically a		1 2 3 4	Total Very little Some Quite a bit Very much Total Very little	76 12 26 27 11 76	100 16 34 36 14 100	2,075 313 706 686 370 2,075	100 15 34 33 18 100	26 171 22 56 69 25 172	15 100 13 33 40 15 100 2	2,933 16,067 2,626 5,651 5,295 2,449 16,021	18 100 16 35 33 15 100 4		∇					
effectively c. Thinking critically a		1 2 3 4	Total Very little Some Quite a bit Very much Total Very little Some	76 12 26 27 11 76 4 15	100 16 34 36 14 100 5 20	2,075 313 706 686 370 2,075 90 401	100 15 34 33 18 100 4 19	26 171 22 56 69 25 172 4 26	15 100 13 33 40 15 100 2 15	2,933 16,067 2,626 5,651 5,295 2,449 16,021 658 3,050	18 100 16 35 33 15 100 4	2.5	2.5	05	2.6	09	2.5	.02
effectively c. Thinking critically a analytically	nd pgthink	1 2 3 4 1 2 3	Total Very little Some Quite a bit Very much Total Very little Some Quite a bit Very much Total	76 12 26 27 11 76 4 15	100 16 34 36 14 100 5 20 43	2,075 313 706 686 370 2,075 90 401 897	100 15 34 33 18 100 4 19 43	26 171 22 56 69 25 172 4 26 68	15 100 13 33 40 15 100 2 15 40	2,933 16,067 2,626 5,651 5,295 2,449 16,021 658 3,050 6,856	18 100 16 35 33 15 100 4 19	2.5	2.5	05	2.6	09	2.5	.02
effectively c. Thinking critically a analytically d. Analyzing numerica	nd pgthink	1 2 3 4 1 2 3	Total Very little Some Quite a bit Very much Total Very little Some Quite a bit Very much	76 12 26 27 11 76 4 15 33 24	100 16 34 36 14 100 5 20 43 32	2,075 313 706 686 370 2,075 90 401 897 685	100 15 34 33 18 100 4 19 43 33	26 171 22 56 69 25 172 4 26 68 74	15 100 13 33 40 15 100 2 15 40 43	2,933 16,067 2,626 5,651 5,295 2,449 16,021 658 3,050 6,856 5,481	18 100 16 35 33 15 100 4 19 43 34	2.5	2.5	05	2.6	09	2.5	.02
c. Thinking critically a analytically d. Analyzing numerica and statistical	nd pgthink	1 2 3 4 1 2 3 4	Total Very little Some Quite a bit Very much Total Very little Some Quite a bit Very much Total	76 12 26 27 11 76 4 15 33 24 76	100 16 34 36 14 100 5 20 43 32 100	2,075 313 706 686 370 2,075 90 401 897 685 2,073	100 15 34 33 18 100 4 19 43 33 100	26 171 22 56 69 25 172 4 26 68 74 172	15 100 13 33 40 15 100 2 15 40 43 100	2,933 16,067 2,626 5,651 5,295 2,449 16,021 658 3,050 6,856 5,481 16,045	18 100 16 35 33 15 100 4 19 43 34 100	3.0	2.5	05	2.6	09	2.5	.02
effectively c. Thinking critically a analytically d. Analyzing numerica	nd pgthink	1 2 3 4 1 2 3 4	Total Very little Some Quite a bit Very much Total Very little Some Quite a bit Very much Total Very little Very much Total	76 12 26 27 11 76 4 15 33 24 76 6 18	100 16 34 36 14 100 5 20 43 32 100 8 24 39	2,075 313 706 686 370 2,075 90 401 897 685 2,073 156 549 807	100 15 34 33 18 100 4 19 43 33 100 8 27 39	26 171 22 56 69 25 172 4 26 68 74 172 6 38	15 100 13 33 40 15 100 2 15 40 43 100 3	2,933 16,067 2,626 5,651 5,295 2,449 16,021 658 3,050 6,856 5,481 16,045	18 100 16 35 33 15 100 4 19 43 34 100 7 24 38	2.5	2.5	05	2.6	09	2.5	.02
c. Thinking critically a analytically d. Analyzing numerica and statistical	nd pgthink	1 2 3 4 1 2 3 4	Total Very little Some Quite a bit Very much Total Very little Some Quite a bit Very much Total Very much Total Very little Some	76 12 26 27 11 76 4 15 33 24 76 6 18	100 16 34 36 14 100 5 20 43 32 100 8 24	2,075 313 706 686 370 2,075 90 401 897 685 2,073 156 549	100 15 34 33 18 100 4 19 43 33 100 8 27	26 171 22 56 69 25 172 4 26 68 74 172 6	15 100 13 33 40 15 100 2 15 40 43 100 3 22	2,933 16,067 2,626 5,651 5,295 2,449 16,021 658 3,050 6,856 5,481 16,045 1,136 3,903	18 100 16 35 33 15 100 4 19 43 34 100 7 24	3.0	2.5	05	3.2	09	3.1	07



Frequencies and Statistical Comparisons: Engineering

First-Year Stud	dents ^a in					Frequen	cy D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering														Your f	first-year stude	ents compo	ared with	
66										NSSE 2015	8	Tonnossoo Tosh			T 1150 D		NGGE 2041	= 0 2016
	Maniakla			Tennessee 1	ecn	Carnegie Cla	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegi		THEC Pee		NSSE 201	
Item wording or description	Variable name ^l	Values "	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
e. Acquiring job- or work-	pgwork	1	Very little	8	11	272	13	18	10	1,973	12							
related knowledge and		2	Some	22	29	654	32	56	33	5,027	31							
skills		3	Quite a bit	28	37	718	35	58	34	5,468	34	2.7	2.6	.12	2.7	.04	2.7	.08
		4	Very much	18	24	426	21	40	23	3,582	22							
			Total	76	100	2,070	100	172	100	16,050	100							
f. Working effectively	pgothers	1	Very little	2	3	161	8	14	8	1,170	7							
with others		2	Some	23	31	608	29	40	23	4,563	28							
		3	Quite a bit	38	51	795	38	61	35	6,421	40	2.8	2.8	.01	2.9	15	2.8	01
		4	Very much	12	16	505	24	57	33	3,858	24							
			Total	75	100	2,069	100	172	100	16,012	100							
g. Developing or	pgvalues	1	Very little	13	17	300	14	23	13	2,623	16							
clarifying a personal code of values and		2	Some	26	34	641	31	47	27	5,048	31							
ethics		3	Quite a bit	25	33	685	33	70	41	5,241	33	2.5	2.6	15	2.6	18	2.6	08
cuncs		4	Very much	12	16	445	21	32	19	3,129	20							
			Total	76	100	2,071	100	172	100	16,041	100							
h. Understanding people	pgdiverse	1	Very little	21	28	323	16	25	15	2,456	15							
of other backgrounds		2	Some	17	22	681	33	45	26	5,352	33							
(economic, racial/ethnic, political,		3	Quite a bit	26	34	634	31	60	35	5,165	32	2.4	2.6	19	2.7 *	30	2.6	17
religious, nationality,		4	Very much	12	16	432	21	42	24	3,058	19				▼			
etc.)			Total	76	100	2,070	100	172	100	16,031	100							
i. Solving complex real-	pgprobsolve	1	Very little	11	14	257	12	15	9	1,905	12							
world problems		2	Some	21	28	648	31	41	24	4,991	31							
		3	Quite a bit	32	42	722	35	70	41	5,710	36	2.6	2.7	07	2.9 *	29	2.7	08
		4	Very much	12	16	445	21	46	27	3,444	21				∇			
			Total	76	100	2,072	100	172	100	16,050	100							
j. Being an informed and	pgcitizen	1	Very little	20	26	366	18	26	16	2,811	18							
active citizen		2	Some	19	25	747	36	57	34	5,903	37							
		3	Quite a bit	28	37	590	29	55	33	4,846	30	2.3	2.5	11	2.5	18	2.4	09
		4	Very much	9	12	354	17	29	17	2,420	15							
			Total	76	100	2,057	100	167	100	15,980	100							



Frequencies and Statistical Comparisons: Engineering

First-Year St	udents ^a in					Frequer	ncy Di	stributior	ıs				Sta	atistical	Comparis	sons ^k		
Engineering														Your j	first-year stud	ents compo	ared with	
Linginieering										NSSE 2015	8							
				Tennessee 7	Гесһ	Carnegie Cl	lass 1	THEC Peer G	iroup	2016		Tennessee Tech	Carneg	ie Class	THEC Pee	r Group	NSSE 201	5 & 2016
Item wording or description	Variable name ^l	Values	^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size "
18. How would you e	valuate your enti	re educa	ntional experience at tl	nis institution	?													
	evalexp	1	Poor	1	1	54	3	5	3	339	2							
		2	Fair	14	18	275	13	23	13	1,920	12							
		3	Good	39	51	1,052	50	71	41	7,886	49	3.1	3.2	09	3.2	19	3.2	16
		4	Excellent	23	30	704	34	74	43	5,982	37							
			Total	77	100	2,085	100	173	100	16,127	100							
19. If you could start	over again, woul	d you go	to the same institution	n you are no	w atte	nding?												
	sameinst	1	Definitely no	2	3	82	4	7	4	506	3							
		2	Probably no	6	8	237	11	22	13	1,782	11							
		3	Probably yes	36	47	965	46	60	34	7,005	43	3.3	3.2	.14	3.3	.02	3.3	.06
		4	Definitely yes	33	43	802	38	85	49	6,848	42							
			Total	77	100	2,086	100	174	100	16,141	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	ıS				Sta	atistical	Comparis	ons ^k		
Engineering										NGGE 204	- 0				Your seniors co	mpared v	vith	
				Tennessee T	och	Carnagia C	200	THEC Peer G	roup	NSSE 2015 2016	o &	Tennessee Tech	Carnegi	io Class	THEC Peer	Group	NSSE 2015	. S. 2016
Item wording	Variable			16111163366 1	ecn	Carriegie C	ass	TITLE FEET G	Toup	2010		Termessee reen	Carriegi	Effect	TITLE FEET	Effect	N33L 2013	Effect
or description	name ¹	Values"	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size "	Mean	size "
1. During the current	school year, abou	t how o	ften have you done th	e following?														
a. Asked questions or	askquest	1	Never	2	2	86	4	8	3	767	4							
contributed to course		2	Sometimes	32	34	718	31	63	27	6,494	34							
discussions in other ways		3	Often	34	36	794	34	79	34	6,360	33	2.9	2.9	05	3.0	13	2.9	.02
ways		4	Very often	26	28	749	32	81	35	5,706	30							
			Total	94	100	2,347	100	231	100	19,327	100							
b. Prepared two or more	drafts	1	Never	28	29	611	26	40	18	5,153	27							
drafts of a paper or		2	Sometimes	34	36	844	36	73	32	7,213	37							
assignment before turning it in		3	Often	22	23	535	23	68	30	4,410	23	2.2	2.3	09	2.5 **	37	2.2	05
turning it in		4	Very often	11	12	345	15	47	21	2,481	13				▼			
			Total	95	100	2,335	100	228	100	19,257	100							
c. Come to class without	unpreparedr	1	Very often	4	4	150	6	16	7	1,351	7							
completing readings or	(Reverse-coded	2	Often	9	9	353	15	23	10	3,182	17							
assignments	version of	3	Sometimes	58	61	1,251	54	137	60	10,492	55	3.1	3.0	.13	3.0	.10	2.9	.20
	unprepared	4	Never	24	25	581	25	54	23	4,219	22							
	created by NSSE.)		Total	95	100	2,335	100	230	100	19,244	100							
d. Attended an art exhibit	, attendart	1	Never	39	41	1,226	52	124	54	9,533	50							
play or other arts		2	Sometimes	43	46	804	34	76	33	6,898	36							
performance (dance, music, etc.)		3	Often	8	9	222	9	19	8	1,964	10	1.8	1.6	.14	1.6	.14	1.7	.08
music, etc.)		4	Very often	4	4	86	4	11	5	837	4							
			Total	94	100	2,338	100	230	100	19,232	100							
e. Asked another student	CLaskhelp	1	Never	5	5	253	11	16	7	1,688	9							
to help you understand		2	Sometimes	26	27	913	39	84	37	7,115	37							
course material		3	Often	39	41	703	30	79	34	6,118	32	2.9	2.6 **	.31	2.7	.19	2.7 *	.22
		4	Very often	25	26	475	20	51	22	4,340	23						Δ	
			Total	95	100	2,344	100	230	100	19,261	100							
f. Explained course	CLexplain	1	Never	1	1	103	4	3	1	599	3							
material to one or more	•	2	Sometimes	17	18	688	29	60	26	5,510	29							
students		3	Often	46	48	890	38	94	41	7,698	40	3.1	2.9 **	.27	3.0	.13	2.9 *	.23
		4	Very often	31	33	658	28	71	31	5,444	28		Δ				Δ	
			Total	95	100	2,339	100	228	100	19,251	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequen	icy D	istribution	S				Sta	atistical	Compariso	ons ^k		
Engineering	neering									NSSE 2015	i &				Your seniors co	mpared v	vith	
				Tennessee T	ech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegi	ie Class	THEC Peer	Group	NSSE 2015	& 2016
Item wording or description	Variable name ^l	Values'	" Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size ⁿ
g. Prepared for exams by	CLstudy	1	Never	8	8	372	16	22	10	2,577	13	Wican	wicum	3/20	Wear	3/20	Wican	3/20
discussing or working	,	2	Sometimes	23	24	727	31	72	31	5,783	30							
through course material		3	Often	35	37	619	26	65	28	5,466	28	2.9	2.6 *	.25	2.8	.09	2.7	.18
with other students		4	Very often	29	31	620	27	72	31	5,440	28		Δ					
			Total	95	100	2,338	100	231	100	19,266	100							
h. Worked with other	CLproject	1	Never	1	1	118	5	6	3	729	4							
students on course		2	Sometimes	11	12	451	19	44	19	3,774	20							
projects or assignments		3	Often	37	39	740	32	68	30	6,663	35	3.3	3.1 *	.22	3.2	.13	3.1 *	.23
		4	Very often	46	48	1,033	44	112	49	8,099	42		Δ				Δ	
			Total	95	100	2,342	100	230	100	19,265	100							
i. Given a course	present	1	Never	9	10	308	13	16	7	2,462	13							
presentation		2	Sometimes	46	49	770	33	72	31	7,139	37							
		3	Often	23	25	680	29	60	26	5,779	30	2.5	2.7	18	2.9 ***	46	2.6	11
		4	Very often	15	16	578	25	82	36	3,862	20				▼			
			Total	93	100	2,336	100	230	100	19,242	100							
2. During the current sch	nool vear, abo	ut how	often have you done th	e following?														
a. Combined ideas from	RIintegrate	1	Never	3	3	74	3	6	3	588	3							
different courses when		2	Sometimes	20	21	670	29	63	27	5,441	28							
completing assignments		3	Often	36	38	981	42	93	40	7,869	41	3.1	2.9 *	.22	3.0	.15	2.9	.20
		4	Very often	35	37	616	26	68	30	5,356	28		Δ					
			Total	94	100	2,341	100	230	100	19,254	100							
b. Connected your	RIsocietal	1	Never	18	19	352	15	29	13	2,843	15							
learning to societal		2	Sometimes	42	45	1,000	43	104	46	8,426	44							
problems or issues		3	Often	22	24	664	29	64	28	5,429	28	2.3	2.4	13	2.4	16	2.4	13
		4	Very often	11	12	307	13	30	13	2,472	13							
			Total	93	100	2,323	100	227	100	19,170	100							
c. Included diverse	RIdiverse	1	Never	40	43	741	32	69	30	6,026	31							
perspectives (political,		2	Sometimes	39	41	931	40	101	44	8,118	42							
religious, racial/ethnic, gender, etc.) in course		3	Often	8	9	448	19	38	17	3,570	19	1.8	2.1 *	27	2.0 *	26	2.0 *	24
discussions or		4	Very often	7	7	215	9	21	9	1,470	8		∇		∇		∇	
assignments			Total	94	100	2,335	100	229	100	19,184	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequen	су [Distribution	S				Sta	itistica	l Comparis	ons ^k		
Engineering										NSSE 2015	5 &				Your seniors co	mpared w	vith	
				Tennessee 1	Гесһ	Carnegie Cla	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegi	e Class	THEC Peer	Group	NSSE 2015	& 2016
Item wording	Variable		_											Effect		Effect		Effect
or description d. Examined the strengths	name' RIownview	Values '	" Response options Never	Count 13	14	Count 193	8	Count 12	5	1,884	% 10	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size '
and weaknesses of	Riowiiview	2	Sometimes	36	39	879	38	87	38	7,433	39							
your own views on a		3	Often	31	33	881	38	93	40	6,962	36	2.5	2.6	17	2.7 *	25	2.6	11
topic or issue		4	Very often	13	14	380	16		17	2,918	15	2.0	2.0	17	∇	23	2.0	11
		•	Total	93	100	2,333	100	230	100	19,197	100				•			
e. Tried to better	RIperspect	1	Never	12	13	· ·	7		3	1,532	8							
understand someone		2	Sometimes	39	41	780	33	81	36	6,611	34							
else's views by		3	Often	32	34	863	37	96	42	7,251	38	2.5	2.7 **	32	2.8 **	38	2.7 *	26
imagining how an issue looks from his or her		4	Very often	12	13	524	22	44	19	3,786	20		▼		▼		∇	
perspective			Total	95	100	2,332	100	228	100	19,180	100		•		•		•	
f. Learned something that	RInewview	1	Never	7	7	101	4	8	4	787	4							
changed the way you		2	Sometimes	30	32	785	34	72	32	6,570	34							
understand an issue or concept		3	Often	42	45	986	42	102	45	8,051	42	2.7	2.8	10	2.8	15	2.8	10
солосре		4	Very often	15	16	456	20	45	20	3,759	20							
			Total	94	100	2,328	100	227	100	19,167	100							
g. Connected ideas from	RIconnect	1	Never	2	2	40	2	5	2	368	2							
your courses to your prior experiences and		2	Sometimes	26	27	502	22	57	25	4,203	22							
knowledge		3	Often	40	42	1,018	44	98	43	8,500	44	3.0	3.1	14	3.0	04	3.1	11
Ü		4	Very often	27	28	763	33	68	30	6,051	32							
			Total	95	100	2,323	100	228	100	19,122	100							
3. During the current scl	•		•	U														
a. Talked about career plans with a faculty	SFcareer	1		20	22		23	38	16	4,538	24							
member		2	Sometimes	41	44	1,021	44	102	44	8,248	43	2.2				. =		_
		3	Often	20	22		20		24	4,058	21	2.3	2.2	.02	2.4	13	2.2	.04
		4	Very often	12	13	309	13	35	15	2,344	12							
b. Worked with a faculty	CEothorn on 1-	1	Total	93	100 35	2,328 1,087	100	231	100	19,188 8,432	100							
member on activities	SFotherwork	2	Never Sometimes	33	37	1,087	29	102 66	44 29	5,708	30							
other than coursework		3	Often		11		29 14	38		· · · · · ·		2.1	10 *	21	1.0	15	1.0	17
(committees, student		4	Very often	10 16	17	326 242	10		16 11	3,041 1,964	16 10	2.1	1.9 *	.21	1.9	.15	1.9	.17
groups, etc.)		4	Total	93	100	2,324	100	231	100	1,964	100		Δ					
			10181	93	100	2,324	100	231	100	19,145	100							



Frequencies and Statistical Comparisons: Engineering

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Seniors ^a in						Frequer	ncy Di	stribution	S				Sta	atistical	Comparis	ons ^k		
Engineering										NSSE 2015	&			,	Your seniors co	mpared v	vith	
				Tennessee T	ech	Carnegie Cl	ass 7	ΓHEC Peer G	roup	2016		Tennessee Tech	Carnegi	e Class	THEC Peer	Group	NSSE 2015	5 & 2016
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 "
c. Discussed course	SFdiscuss	1	Never	13	14	611	26	45	19	4,628	24							
topics, ideas, or		2	Sometimes	42	46	938	40	107	46	8,147	43							
concepts with a faculty member outside of		3	Often	27	29	523	22	44	19	4,304	22	2.4	2.2	.20	2.3	.08	2.2	.18
class		4	Very often	10	11	254	11	35	15	2,080	11							
			Total	92	100	2,326	100	231	100	19,159	100							
d. Discussed your	SFperform	1	Never	25	27	618	27	43	19	5,471	29							
academic performance		2	Sometimes	38	41	1,064	46	112	49	8,779	46							
with a faculty member		3	Often	22	24	444	19	45	20	3,370	18	2.1	2.1	.03	2.3	16	2.0	.08
		4	Very often	7	8	195	8	30	13	1,515	8							
			Total	92	100	2,321	100	230	100	19,135	100							
l. During the current scl	hool year, how	much l	nas your coursework e	mphasized the	e follo	wing?												
a. Memorizing course	memorize	1	Very little	15	16	257	11	28	12	2,170	11							
material		2	Some	35	37	915	39	92	40	7,433	39							
		3	Quite a bit	29	31	793	34	73	32	6,609	34	2.5	2.5	09	2.5	04	2.5	09
		4	Very much	15	16	375	16	35	15	3,016	16							
			Total	94	100	2,340	100	228	100	19,228	100							
b. Applying facts,	HOapply	1	Very little	6	6	55	2	4	2	442	2							
theories, or methods to		2	Some	9	9	343	15	32	14	2,817	15							
practical problems or		3	Quite a bit	37	39	966	41	77	34	7,665	40	3.2	3.2	.01	3.3	12	3.2	01
new situations		4	Very much	43	45	967	41	114	50	8,262	43							
			Total	95	100	2,331	100	227	100	19,186	100							
c. Analyzing an idea,	HOanalyze	1	Very little	7	7	98	4	11	5	941	5							
experience, or line of		2	Some	17	18	457	20	37	16	3,946	21							
reasoning in depth by		3	Quite a bit	32	34	945	41	80	35	7,465	39	3.1	3.1	.00	3.2	11	3.1	.03
examining its parts		4	Very much	38	40	831	36	99	44	6,792	35							
			Total	94	100	2,331	100	227	100	19,144	100							
d. Evaluating a point of	HOevaluate	1	Very little	23	25	255	11	24	11	2,633	14							
view, decision, or		2	Some	32	34	731	31	72	32	6,619	35							
information source		3	Quite a bit	24	26	850	36	75	33	6,393	33	2.3	2.7 ***	40	2.7 ***	42	2.6 *	27
		4	Very much	14	15	496	21	57	25	3,509	18		▼		▼		∇	
			Total	93	100	2,332	100	228	100	19,154	100		•		•		•	



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequen	cy D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering										NSSE 2015	&				Your seniors co	ompared v	vith	
				Tennessee T	ech	Carnegie Cla	ass	THEC Peer G	roup	2016		Tennessee Tech	Carneg	ie Class	THEC Pee	r Group	NSSE 201	5 & 2016
Item wording	Variable													Effect		Effect		Effect
or description	name '	Values"	Response options	Count 11	12	Count 154	7	Count	%	Count		Mean	Mean	size "	Mean	size ⁿ	Mean	size ⁿ
e. Forming a new idea or understanding from	HOform	2	Very little	30	32	662	28	13 68	6 30	1,386 5,554	29							
various pieces of		3	Some Ouite a bit	34	36	922	40	77	33	7,670	40	2.6	20 *	21	20 *	20	2.0	17
information			•	34 19	20	590	25	77	31	4,543	24	2.0	2.8 *	21	2.9 *	28	2.8	17
		4	Very much Total	94	100	2,328	100	230	100	19,153	100		∇		∇			
							100	230	100	19,133	100							
5. During the current sch			•	ors done the f	ollowi	_												
a. Clearly explained	ETgoals	1	Very little	4	4	84	4	11	5	603	3							
course goals and requirements		2	Some	18	19	465	20	34	15	3,931	20	• •						
		3	Quite a bit	44	47	1,030	44	95	41	9,007	47	3.0	3.1	04	3.2	16	3.0	01
		4	Very much	28	30	764	33	91	39	5,746	30							
			Total	94	100	2,343	100	231	100	19,287	100							
b. Taught course sessions	ETorganize	1	Very little	6	6	83	4	9	4	668	3							
in an organized way		2	Some	22	23	500	21	41	18	4,073	21	• •						
		3	Quite a bit	39	41	1,045	45	109	47	9,094	47	2.9	3.0	10	3.1	14	3.0	08
		4	Very much	28	29	706	30	71	31	5,407	28							
			Total	95	100	2,334	100	230	100	19,242	100							
c. Used examples or	ETexample	1	Very little	6	6	104	4	11	5	739	4							
illustrations to explain difficult points		2	Some	13	14	489	21	43	19	3,849	20							
unicut points		3	Quite a bit	41	43	919	39	85	37	8,195	43	3.1	3.1	.06	3.1	01	3.1	.06
		4	Very much	35	37	823	35	92	40	6,442	34							
			Total	95	100	2,335	100	231	100	19,225	100							
d. Provided feedback on a	ETdraftfb	1	Very little	17	18	339	15	32	14	3,138	16							
draft or work in progress		2	Some	34	36	784	34	76	33	6,667	35							
progress		3	Quite a bit	28	30	743	32	72	31	6,084	32	2.4	2.6	14	2.6	18	2.5	07
		4	Very much	15	16	471	20	50	22	3,324	17							
			Total	94	100	2,337	100	230	100	19,213	100							
e. Provided prompt and detailed feedback on tests or completed	ETfeedback	1	Very little	8	9	219	9	27	12	1,850	10							
		2	Some	30	32	707	30	63	27	6,084	32							
assignments		3	Quite a bit	38	41	884	38	89	39	7,454	39	2.7	2.7	05	2.7	03	2.7	.00
-		4	Very much	17	18	519	22	51	22	3,803	20							
			Total	93	100	2,329	100	230	100	19,191	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequenc	cv D	istribution					Sta	tistical	Compariso	ons ^k		
Engineering						-1	,								Your seniors co		vith	
ingineering										NSSE 2015	5 &							
				Tennessee T	ech	Carnegie Cla	SS	THEC Peer G	oup	2016		Tennessee Tech	Carnegie	e Class	THEC Peer	Group	NSSE 2015	
Item wording or description	Variable name ^l	Values "	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effect size "
6. During the current s	school year, abou	t how o	often have you done th	e following?														
a. Reached conclusions	QRconclude	1	Never	7	7	125	5	8	3	901	5							
based on your own		2	Sometimes	14	15	544	23	47	20	4,298	22							
analysis of numerical		3	Often	28	30	919	39	88	38	7,280	38	3.2	3.0 *	.22	3.1	.08	3.0	.17
information (numbers,		4	Very often	45	48	758	32	88	38	6,803	35		Δ					
graphs, statistics, etc.)			Total	94	100	2,346	100	231	100	19,282	100							
b. Used numerical	QRproblem	1	Never	17	18	468	20	42	18	3,623	19							
information to examine		2	Sometimes	24	26	782	33	78	34	6,306	33							
a real-world problem or	r	3	Often	26	28	611	26	66	29	5,127	27	2.7	2.5	.19	2.5	.18	2.5	.15
issue (unemployment,		4	Very often	27	29	480	21	44	19	4,200	22		2.5	.17	2.3	.10	2.3	.13
climate change, public health, etc.)		-	Total	94	100		100	230	100	19,256	100							
nearui, etc.)			Total	74	100	2,341	100	230	100	19,230	100							
c. Evaluated what others	QRevaluate	1	Never	16	17	326	14	24	10	2,457	13							
have concluded from	Q110 ranano	2	Sometimes	27	29	853	36	86	37	6,942	36							
numerical information		3	Often	27	29	755	32	76	33	6,099	32	2.6	2.5	.10	2.6	.01	2.6	.05
		4	Very often	24	26	410	17	45	19	3,742	19	2.0	2.3	.10	2.0	.01	2.0	.03
		7	Total	94	100		100	231	100	19,240	100							
7. During the current s	school voor ahou	t how r										nclude those not v	et complet	od)				
a. Up to 5 pages	wrshortnum	0	None	18	19	238	10	23	10	1,937	10	nerude those not y	ct compict	cu.)				
a. Op to 3 pages		1.5	1-2	26	27	524	23	50	22	4,628	25							
	(Recoded version	4	3-5	23	24	622	27	59	26	5,270	28							
	of wrshort created by NSSE. Values	8	6-10	16	17	413	18	38	17	3,455	18	4.7	6.6 ***	29	7.2 ***	37	6.2 **	24
	are estimated	13	11-15	8	0	190	8	24	11	1,531	8	7.7	∇	29	7.2	37	0.2 ^{3.4} ∇	24
	number of papers,	18	16-20	0	0	190	5	12	5	762	4		٧		•		٧	
	reports, etc.)			2	2													
		23	More than 20 Total	3	100	178	8	21	9	1,176	6							
b. Between 6 and 10	1	0		95 37	100		100	227	100	18,759	100							
pages	wrmednum		None 1-2	29	40 31	622	28 32	68	31 25	5,499	30							
puges	(Recoded version	1.5				716		54		6,105	33							
	of wrmed created by NSSE. Values	4	3-5	11	12	459	20	42	19	3,763	20	2.8	2.5		4.0	2.1	2.2	
	are estimated	8	6-10	10	11	261	12	36	16	1,848	10	4.0	3.6	17	4.0	24	3.2	10
	number of papers,	13	11-15	4	4	97	4	8	4	668	4							
	reports, etc.)	18	16-20	1	1	42	2	5	2	266	1							
		23	More than 20	1	1	47	2	6	3	320	2							
			Total	93	100	2,244	100	219	100	18,469	100							



Frequencies and Statistical Comparisons: Engineering

											, •	• • • • • • • • • • • • • • • • • • • •						
Seniors ^a in						Frequen	су С	istribution	S				Sta	atistical	Compariso	ons ^k		
ngineering															Your seniors co	mpared v	vith	
										NSSE 2015	8							
				Tennessee 1	ech	Carnegie Cla	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegi		THEC Peer		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	35	38	974	44	81	37	8,277	45	Wedii	Wedii	3126	ivicuii	3126	WEUII	3126
. 0	(Recoded version	1.5	1-2	34	37	670	30	55	25	5,721	31							
	of wrlong created	4	3-5	14	15	265	12	32	14	2,223	12							
	by NSSE. Values	8	6-10	7	8	157	7	25	11	1,158	6	2.2	2.7	12	4.1 ***	36	2.4	06
	are estimated number of papers,	13	11-15	1	1	79	4	12	5	517	3				▼			
	reports, etc.)	18	16-20	0	0	32	1	6	3	222	1							
	.,,	23	More than 20	1	1	49	2	10	5	297	2							
			Total	92	100	2,226	100	221	100	18,415	100							
Estimated number of	wrpages																	
assigned pages of												68.1	87.2 *	18	113.9 ***	38	78.1	10
student writing.			led and summed by NSSE										∇		•			
	from wrshort, wrm estimated pages of		-										•		•			
			often have you had dis							1.250	7							
People of a race or ethnicity other than	DDrace	1	Never	4	4	152	6	10	4	1,258	7							
your own		2	Sometimes	28	29	498	21	47	20	4,782	25	2.0					• •	
		3	Often	28	29	676	29	69	30	5,492	28	3.0	3.1	11	3.2	19	3.0	04
		4	Very often Total	35 95	37 100	1,016 2,342	43 100	105 231	45 100	7,748	40							
h D 1. f	DDeconomic	1	Never	3	3			7	3	19,280	100							
 People from an economic background 	DDeconomic	2		23	24	145 513	6 22	40	3 17		6 24							
other than your own		3	Sometimes Often	39	41	753	32	87	38	4,534 6,503	34	3.0	2.1	0.5	2.2	21	2.0	00
		4		39	32	926	40	97	42	7,143	37	3.0	3.1	05	3.2	21	3.0	02
		4	Very often Total	95	100	2,337	100	231	100	19,247	100							
c. People with religious	DDreligion	1	Never	7	7	173	7	11	5	1,433	7							
beliefs other than your		2	Sometimes	23	24	595	25	59	26	4,892	25							
own		3	Often	31	33	669	29	63	27	5,767	30	3.0	3.0	01	3.1	11	3.0	.00
		4	Very often	34	36	897	38	97	42	7,128	37	3.0	3.0	01	3.1	11	3.0	.00
		4	Total	95	100	2,334	100	230	100	19,220	100							
d. People with political	DDpolitical	1	Never	93	4	2,334	7	7	3	1,260	7							
views other than your	DDpolitical	2	Sometimes	26	27	601	26	57	25	4,889	25							
own		3	Often	32	34	699	30	72	31	6,146	32	3.0	2.0	01	2.1	12	2.0	02
		3 4	Very often	33	35	699 871	37	95	41	6,881	36	3.0	3.0	.01	3.1	13	3.0	.02
		4	•															
			Total	95	100	2,332	100	231	100	19,176	100							



Frequencies and Statistical Comparisons: Engineering

a . a.											,	· · · · · · · · · · · · · · · · · · ·						
Seniors ^a in						Frequen	cy D	istribution	S				Sta		l Comparis			
Engineering															Your seniors co	mpared v	vith	
0 0				T	1-	Causasia Cla		THEC Dates C		NSSE 2015	5 &	Tennessee Tech	C	a Class	TUEC Deer		NICCE 201E	. 0 201/
Item wording	Variable			Tennessee 7	ecn	Carnegie Cia	ass	THEC Peer G	roup	2016		Termessee recir	Carneg	Effect	THEC Peer	Effect	NSSE 2015	Effect
or description	name ¹	Values "	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size"	Mean	size"	Mean	size"
9. During the current so	chool year, abo	ut how o	often have you done th	e following?														
a. Identified key	LSreading	1	Never	11	12	120	5	14	6	962	5							
information from		2	Sometimes	25	26	595	25	53	23	5,179	27							
reading assignments		3	Often	38	40	961	41	88	38	7,800	41	2.7	2.9 *	23	3.0 *	27	2.9 *	21
		4	Very often	21	22	666	28	75	33	5,313	28		∇		∇		∇	
			Total	95	100	2,342	100	230	100	19,254	100							
b. Reviewed your notes	LSnotes	1	Never	13	14	211	9	17	7	1,760	9							
after class		2	Sometimes	29	31	740	32	51	22	6,528	34							
		3	Often	28	30	745	32	80	35	6,096	32	2.7	2.8	11	3.0 **	34	2.7	06
		4	Very often	24	26	639	27	83	36	4,821	25				▼			
			Total	94	100	2,335	100	231	100	19,205	100							
c. Summarized what you Learned in class or from	LSsummary	1	Never	14	15	236	10	22	10	2,021	11							
learned in class or from		2	Sometimes	29	31	784	34	55	24	6,662	35							
course materials		3	Often	36	38	781	34	86	37	6,355	33	2.6	2.7	12	2.9 *	31	2.6	09
		4	Very often	16	17	518	22	67	29	4,024	21				▼			
			Total	95	100	2,319	100	230	100	19,062	100							
10. During the current	school year, to	what ext	tent have your courses	challenged y	ou to	do your best	work	k?										
	challenge	1	Not at all	3	3	22	1	2	1	182	1							
		2		0	0	51	2	3	1	353	2							
		3		3	3	92	4	11	5	746	4							
		4		8	8	219	9	21	9	1,780	9	5.6	5.5	.03	5.6	05	5.5	.03
		5		26	27	656	28	59	26	5,459	28							
		6		29	31	674	29	61	27	5,869	31							
		7	Very much	26	27	623	27	73	32	4,842	25							
			Total	95	100	2,337	100	230	100	19,231	100							
11. Which of the follow	ing have you d	one or d	o you plan to do befor	e you gradua	te?°										<u></u>			
a. Participate in an	intern		Have not decided	7	7	152	6	10	4	1,114	6							
internship, co-op, field	(Means indicate		Do not plan to do	20	21	315	13	31	13	2,354	12							
	the percentage		Plan to do	9	9	572	24	63	27	4,843	25	62%	56%	.13	55%	.14	57%	.11
placement	who responded		Done or in progress	59	62	1,300	56	127	55	10,953	57							
r	"Done or in		Total	95	100	2,339	100	231	100	19,264	100							
	progress.")																	



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in					Frequenc	y D	istribution	S				Sta	atistical	Comparis	ons ^k		
Engineering									NCCE 2045	. 0				Your seniors co	mpared v	vith	
			Tennessee ⁻	Гесh	Carnegie Clas	22	THFC Peer Gi	oun	NSSE 2015 2016	o &	Tennessee Tech	Carnegi	ie Class	THEC Peer	Groun	NSSE 2015	5 & 2016
Item wording	Variable		Termessee	rccii	curricgic cia.		THE CT CCT G	оир	2010			Carriegi	Effect	THECT CCI	Effect	11331 2013	Effect
or description	name ¹	Values ^m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size "
b. Hold a formal	leader	Have not decided	13	14	237	10	22	10	1,821	9							
leadership role in a student organization or	(Means indicate	Do not plan to do	32	34	1,050	45	101	44	8,154	42							
group	the percentage	Plan to do	7	7	192	8	22	10	1,499	8	45%	37%	.16	37%	.16	40%	.09
	who responded "Done or in	Done or in progress	42	45	855	37	85	37	7,775	40							
	progress.")	Total	94	100	2,334	100	230	100	19,249	100							
c. Participate in a learning	learncom	Have not decided	11	12	307	13	34	15	2,246	12							-
community or some	(Means indicate	Do not plan to do	55	58	1,299	56	117	51	10,826	56							
other formal program	the percentage	Plan to do	7	7	181	8	22	10	1,545	8	23%	24%	01	25%	05	24%	02
where groups of students take two or	who responded	Done or in progress	22	23	551	24	58	25	4,616	24							
more classes together	"Done or in progress.")	Total	95	100	2,338	100	231	100	19,233	100							
d. Participate in a study	abroad	Have not decided	10	11	255	11	28	12	1,867	10							
abroad program	(Means indicate	Do not plan to do	68	72	1,758	75	169	74	14,157	74							
	the percentage	Plan to do	6	6	157	7	17	7	1,256	7	12%	7%	.16	7%	.18	10%	.05
	who responded	Done or in progress	11	12	162	7	15	7	1,935	10							
	"Done or in progress.")	Total	95	100	2,332	100	229	100	19,215	100							
e. Work with a faculty	research	Have not decided	9	9	389	17	36	16	2,978	16							
member on a research	(Means indicate	Do not plan to do	46	48	1,041	45	103	45	8,008	42							
project	the percentage	Plan to do	15	16	358	15	39	17	2,996	16	26%	23%	.07	23%	.09	27%	02
	who responded	Done or in progress	25	26	540	23	52	23	5,170	27							
	"Done or in progress.")	Total	95	100	2,328	100	230	100	19,152	100							
f. Complete a culminating	capstone	Have not decided	3	3	167	7	16	7	1,101	6							
senior experience	(Means indicate	Do not plan to do	4	4	311	13	15	6	1,913	10							
(capstone course,	the percentage	Plan to do	26	27	716	31	87	38	5,974	31	65%	49% **	.33	49% **	.33	53% *	.25
senior project or thesis, comprehensive exam,	who responded	Done or in progress	62	65	1,146	49	113	49	10,237	53						Δ	
portfolio, etc.)	"Done or in progress.")	Total	95	100	2,340	100	231	100	19,225	100							
2. About how many of	vour courses at	this institution have include	ed a communit	v-hase	ed project (ser	vice	-learning)?										
	servcourse	1 None	45	47	1,205	52	85	37	10,731	56							
		2 Some	43	45	967	42	122	54	7,389	39							
		3 Most	6	6	134	6	17	7	860	4	1.6	1.6	.09	1.7	18	1.5	.17
		4 All	1	1	19	1	3	1	187	1							
		Total	95	100	2,325	100	227	100	19,167	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istributior	าร				St	tatistical	l Compari	sons ^k		
Engineering										NSSE 2015	5 &				Your seniors	compared v	vith	
				Tennessee T	Tech	Carnegie C	lass	THEC Peer G	roup	2016		Tennessee Tech	Carne	gie Class	THEC Pe	er Group	NSSE 201	5 & 2016
Item wording or description	Variable name ^I	Values '	ⁿ Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size "	Mean	Effect size "
13. Indicate the quality	of your intera	ctions w	th the following peopl	le at your insti	itutio	n.												
a. Students	QIstudent	1	Poor	1	1	32	1	1	0	189	1							
		2		4	4	39	2	3	1	251	1							
		3		2	2	80	3	6	3	728	4							
		4		4	4	210	9	19	8	1,648	9							
		5		23	24	549	23	61	26	4,380	23	5.7	5.6	.02	5.7	05	5.7	02
		6		34	36	710	30	65	28	5,963	31							
		7	Excellent	27	28	700	30	74	32	6,025	31							
		_	Not applicable	0	0	22	1	2	1	107	1							
			Total	95	100	2,342	100	231	100	19,291	100							
b. Academic advisors	QIadvisor	1	Poor	8	8	101	4	9	4	1,025	5							
		2		6	6	105	4	9	4	1,026	5							
		3		4	4	191	8	13	6	1,553	8							
		4		11	12	279	12	31	13	2,500	13							
		5		16	17	405	17	43	19	3,634	19	5.0	5.2	12	5.3	17	5.1	03
		6		26	27	510	22	53	23	3,984	21							
		7	Excellent	23	24	721	31	70	30	5,260	27							
		_	Not applicable	1	1	23	1	2	1	284	1							
			Total	95	100	2,335	100	230	100	19,266	100							
c. Faculty	QIfaculty	1	Poor	5	5	43	2	9	4	372	2							
		2		2	2	65	3	5	2	573	3							
		3		4	4	138	6	11	5	1,139	6							
		4		14	15	292	13	32	14	2,563	13	7. 2						
		5		12	13	575	25	52	23	4,829	25	5.3	5.4	02	5.3	.01	5.3	.02
		6		34	37	656	28	66	29	5,504	29							
		7	Excellent	22	24	546	23	54	23	4,137	22							
		_	Not applicable	0	0	15	1	1	0	84	0							
			Total	93	100	2,330	100	230	100	19,201	100							



Frequencies and Statistical Comparisons: Engineering

							CIII	163366		molog	icai	Offiversity						
Seniors ^a in						Frequenc	cy Di:	stribution	S				St	atistical	l Comparis	sons ^k		
Engineering															Your seniors o	ompared v	vith	
88										NSSE 2015	&							
				Tennessee 7	Гесһ	Carnegie Cla	ss T	HEC Peer Gr	oup	2016		Tennessee Tech	Carneg	ie Class	THEC Pee	r Group	NSSE 2015	8 201
Item wording	Variable													Effect		Effect		Effec
or description	name '	Values		Count	%	Count	%	Count	%	Count	<u>%</u>	Mean	Mean	size "	Mean	size ⁿ	Mean	size
d. Student services staff (career services,	QIstaff	1 2	Poor	6	6	122	5	11	5	893	5							
student activities,		3		10	11	98 174	4 7	11	5 7	879	5							
housing, etc.)		4		6	6	322	14	16	14	1,407	7							
		5			20	408	14 17	33 44	14 19	2,757	14 19	4.8	4.0	0.4	4.0	07	4.0	0.
		6		19 23	24	408	18	44	18	3,719 3,652	19	4.0	4.8	04	4.9	07	4.9	06
		7	Excellent	23 16	17	368	16	41	18	3,032	16							
		_	Not applicable	6	6	422	18	33	14	2,906	15							
			Total	95	100		100	230	100	19,246	100							
e. Other administrative	QIadmin	1	Poor	8	8	142	6	16	7	1,059	6							
staff and offices	Qiadiiiii	2	F00I	7	7	129	6	18	8	1,059	6							
(registrar, financial aid,		3		3	3	177	8	13	6	1,603	8							
etc.)		4		10	11	354	15	44	19	3,027	16							
		5		25	26	508	22	53	23	4,250	22	4.9	4.8	.02	4.7	.11	4.8	.0:
		6		26	27	493	21	45	19	3,946	21	4.2	4.0	.02	4.7	.11	4.0	.0.
		7	Excellent	15	16	392	17	34	15	3,184	17							
		_	Not applicable	1	10	141	6	8	3	1,105	6							
			Total	95	100		100	231	100	19,241	100							
4. How much does your	. :			,,,	100	2,000	100	201		1>,2.11								
a. Spending significant	empstudy	npnasizo 1	Very little	4	4	41	2	4	2	372	2							
amounts of time	empstudy	2	Some	12	13	387	17	35	15	2,805	15							
studying and on		3	Quite a bit	34	37	967	42	90	39	8,070	42	3.2	3.2	.06	3.2	.00	3.2	.02
academic work		4	Very much	43	46	934	40	100	44	7,963	41	J.2	3.2	.00	3.2	.00	3.2	.02
		-	Total	93	100		100	229	100	19,210	100							
b. Providing support to	SEacademic	1	Very little	6	6	141	6	19	8	1,073	6							
help students succeed		2	Some	22	23	581	25	52	23	4,947	26							
academically		3	Quite a bit	46	49	996	43	102	45	8,204	43	2.9	2.9	04	2.8	.02	2.9	04
		4	Very much	20	21	596	26	52	23	4,891	26							
		·	Total	94	100		100	225	100	19,115	100							
c. Using learning support	SElearnsup	1	Very little	11	12	232	10	32	14	1,788	9							
services (tutoring	•	2	Some	37	40	645	28	71	31	5,365	28							
services, writing		3	Quite a bit	29	31	878	38	74	32	7,306	38	2.5	2.8 *	24	2.6	10	2.8 *	26
center, etc.)		4	Very much	16	17	564	24	51	22	4,662	24		∇				∇	
			Total	93	100	2,319	100	228	100	19,121	100						•	



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	S				St	atistical	Compari	sons ^k		
Engineering															Your seniors o	compared v	vith	
								-		NSSE 2015	5 &	Tannassaa Tash	•		T11500		11665 204	= 0 004 <i>c</i>
	Variable			Tennessee 1	ech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Tech	Carneg	gie Class Effect	THEC Pee	er Group Effect	NSSE 201	5 & 2016 Effect
Item wording or description	name ^I	Values "	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size"	Mean	size"	Mean	size "
d. Encouraging contact	SEdiverse	1	Very little	22	24	490	21	44	19	3,837	20							
among students from		2	Some	33	36	749	32	90	39	6,576	34							
different backgrounds (social, racial/ethnic,		3	Quite a bit	24	26	695	30	60	26	5,481	29	2.3	2.4	12	2.4	07	2.4	12
religious, etc.)		4	Very much	13	14	384	17	35	15	3,242	17							
2 , ,			Total	92	100	2,318	100	229	100	19,136	100							
e. Providing opportunities	SEsocial	1	Very little	11	12	279	12	26	11	1,849	10							
to be involved socially		2	Some	26	28	706	30	77	34	5,577	29							
		3	Quite a bit	38	41	851	37	72	32	7,406	39	2.7	2.7	.01	2.7	.02	2.7	07
		4	Very much	18	19	487	21	52	23	4,336	23							
			Total	93	100	2,323	100	227	100	19,168	100							
f. Providing support for	SEwellness	1	Very little	19	20	379	16	37	16	2,403	13							
your overall well-being		2	Some	26	28	653	28	62	27	5,464	29							
(recreation, health care, counseling, etc.)		3	Quite a bit	31	33	806	35	75	33	7,050	37	2.5	2.6	11	2.6	15	2.7	20
counseing, etc.)		4	Very much	17	18	482	21	55	24	4,212	22							
			Total	93	100	2,320	100	229	100	19,129	100							
g. Helping you manage	SEnonacad	1	Very little	36	39	905	39	96	42	6,908	36							
your non-academic		2	Some	30	32	744	32	73	32	6,775	35							
responsibilities (work,		3	Quite a bit	21	23	443	19	37	16	3,751	20	2.0	2.0	03	1.9	.03	2.0	05
family, etc.)		4	Very much	6	6	225	10	23	10	1,693	9							
			Total	93	100	2,317	100	229	100	19,127	100							
h. Attending campus	SEactivities	1	Very little	11	12	439	19	39	17	2,819	15							
activities and events		2	Some	33	36	730	32	71	31	5,934	31							
(performing arts,		3	Quite a bit	34	37	714	31	75	33	6,707	35	2.6	2.5	.07	2.5	.02	2.6	03
athletic events, etc.)		4	Very much	14	15	427	18	43	19	3,648	19							
			Total	92	100	2,310	100	228	100	19,108	100							
i. Attending events that	SEevents	1	Very little	25	27	642	28	61	27	4,560	24							
address important		2	Some	36	39	834	36	96	42	7,404	39							
social, economic, or		3	Quite a bit	24	26	552	24	49	21	4,890	26	2.1	2.2	06	2.1	.00	2.2	11
political issues		4	Very much	7	8	281	12	22	10	2,196	12							
			Total	92	100	2,309	100	228	100	19,050	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	су [Distribution	S				Sta	tistical	Compari	sons ^k		
Engineering										NSSE 2015	; <i>&</i> ,	-			Your seniors o	compared v	vith	
				Tennessee T	Tech	Carnegie Cl	ass	THEC Peer G	roup	2016	, u	Tennessee Tech	Carnegie	e Class	THEC Pee	er Group	NSSE 2015	& 2016
Item wording	Variable													Effect		Effect		Effect
or description		Values "		Count	%	Count	%	Count	%	Count	%	Mean	Mean	size "	Mean	size "	Mean	size ⁿ
15. About how many ho				ng the followi														
a. Preparing for class	tmprephrs	0	0 hrs	0	0	16	1	1	0	91	0							
(studying, reading, writing, doing	(Recoded version	3	1-5 hrs	5	5	284	12		9	1,944	10							
homework or lab work,	of tmprep created	8	6-10 hrs	12	13	447	19		12	3,427	18							
analyzing data,	by NSSE. Values		11-15 hrs	17	18	395	17	48	21	3,427	18							
rehearsing, and other	are estimated number of hours	18	16-20 hrs	15	16	432	18		20	3,516	18	20.2	16.6 ***	.37	18.4	.19	17.4 **	.29
academic activities)	per week.)	23	21-25 hrs	16	17	292	12		12	2,411	13						Δ	
	<i>F</i> ,	28	26-30 hrs	9	9	172	7	17	7	1,561	8							
		33	More than 30 hrs	21	22	304	13		18	2,867	15							
			Total	95	100	2,342	100		100	19,244	100							
b. Participating in co-	tmcocurrhrs	0	0 hrs	28	29	1,063	46		49	7,487	39							
curricular activities	(Recoded version	3	1-5 hrs	36	38	585	25		20	5,723	30							
(organizations, campus publications, student	of tmcocurr	8	6-10 hrs	13	14	303	13	35	15	2,793	15							
government, fraternity	created by NSSE.	13	11-15 hrs	5	5	172	7	12	5	1,435	7							
or sorority,	Values are estimated number	18	16-20 hrs	6	6	109	5	12	5	876	5	6.1	4.7 *	.21	5.0	.15	5.1	.15
intercollegiate or	of hours per	23	21-25 hrs	3	3	43	2	6	3	391	2		Δ					
intramural sports, etc.)	week.)	28	26-30 hrs	1	1	19	1	2	1	156	1							
	,	33	More than 30 hrs	3	3	31	1	5	2	285	1							
			Total	95	100	2,325	100	231	100	19,146	100							
c. Working for pay	tmworkonhrs	0	0 hrs	55	58	1,605	69	167	73	12,824	67							
on campus	(Recoded version	3	1-5 hrs	12	13	118	5	8	3	1,093	6							
	of tmworkon	8	6-10 hrs	14	15	174	7	15	7	1,844	10							
	created by NSSE.	13	11-15 hrs	2	2	143	6	13	6	1,368	7							
	Values are	18	16-20 hrs	8	8	188	8	21	9	1,359	7	4.5	4.1	.05	3.8	.10	4.1	.05
	estimated number	23	21-25 hrs	1	1	58	2	2	1	386	2							
-	of hours per week.)	28	26-30 hrs	3	3	17	1	0	0	111	1							
	ween.j	33	More than 30 hrs	0	0	25	1	4	2	206	1							
			Total	95	100	2,328	100	230	100	19,191	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	S				Sta	tistical	Comparis	ons ^k		
ngineering										NSSE 2015	: <i>Q</i> ,				Your seniors co	mpared v	vith	
				Tennessee 7	Гесһ	Carnegie Cl	ass	THEC Peer G	roup	2016	, Q	Tennessee Tech	Carnegie	Class	THEC Peer	Group	NSSE 2015	& 2016
Item wording	Variable								•					Effect		Effect		Effect
or description	name '	Values "		Count	%	Count	%	Count	%	Count		Mean	Mean	size ⁿ	Mean	size "	Mean	size ⁿ
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	66	70	1,211	52	116	50	10,491	55							
on campus	(Recoded version	3	1-5 hrs	3	3	89	4	10	4	812	4							
	of tmworkoff	8	6-10 hrs	4	4	106	5	9	4	1,113	6							
	created by NSSE.	13	11-15 hrs	2	2	95	4	10	4	1,071	6							
	Values are estimated number	18	16-20 hrs	6	6	162	7	20	9	1,519	8	5.7	10.9 ***	39	11.1 ***	43	9.1 **	28
	of hours per	23	21-25 hrs	3	3	144	6	11	5	1,055	6		\blacksquare		▼		∇	
	week.)	28	26-30 hrs	7	7	89	4	16	7	623	3							
		33	More than 30 hrs	3	3	432	19	38	17	2,434	13							
			Total	94	100	2,328	100	230	100	19,118	100							
Estimated number of	tmworkhrs																	
hours working for pay	(Continuous											10.2						
	variable created											10.3	14.9 ***	34	14.9 **	34	13.2 *	23
	by NSSE)												▼		▼		∇	
e. Doing community	tmservicehrs	0	0 hrs	59	62	1,429	62	141	61	11,812	62							
service or volunteer		3	1-5 hrs	27	28	636	27	64	28	5,389	28							
work	(Recoded version of tmservice	8	6-10 hrs	6	6	105	5	11	5	896	5							
	created by NSSE.	13	11-15 hrs	2	2	61	3	3	1	425	2							
	Values are	18	16-20 hrs	1	1	46	2	4	2	288	2	1.8	2.3	10	2.6	16	2.1	07
	estimated number	23	21-25 hrs	0	0	21	1	5	2	121	1	1.0	2.3	10	2.0	10	2.1	07
	of hours per	28	26-30 hrs	0	0	9	0	1	0	43	0							
	week.)	33	More than 30 hrs	0	0	6	0	2	1	74	0							
		33	Total	95	100		100	231	100	19,048	100							
f. Relaxing and	tmrelaxhrs	0	0 hrs	2	2	2,313 85	4	13	6	554	3							
socializing (time with		3	1-5 hrs		24													
friends, video games,	(Recoded version			22		620	27	70	31	4,569	24							
TV or videos, keeping	of tmrelax created		6-10 hrs	29	32	627	27	57	25	5,364	28							
up with friends online,	by NSSE. Values are estimated	13	11-15 hrs	14	15	398	17	38	17	3,556	19	11.2						
etc.)	number of hours	18	16-20 hrs	15	16	265	11	18	8	2,465	13	11.2	11.2	.00	10.4	.09	11.6	04
	per week.)	23	21-25 hrs	4	4	130	6	13	6	1,033	5							
	<i>p</i>)	28	26-30 hrs	2	2	56	2	8	4	483	3							
		33	More than 30 hrs	4	4	143	6	11	5	1,111	6							
			Total	92	100	2,324	100	228	100	19,135	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	S				Sta	tistical	Comparis	ons ^k		
Engineering															Your seniors co	mpared v	vith	
88										NSSE 2015	5 &							
				Tennessee 7	Гесh	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Tech	Carnegie		THEC Peer		NSSE 2015	
Item wording or description	Variable name ^l	Values"	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size "	Mean	Effect size "	Mean	Effec size
g. Providing care for	tmcarehrs	0	0 hrs	72	79	1,539	66	144	63	13,599	71	Wican	wicum	3/20	Wear	3120	Wicum	3120
dependents (children,	(Recoded version	3	1-5 hrs	6	7	232	10	23	10	1,822	10							
parents, etc.)	of tmcare created	8	6-10 hrs	6	7	110	5	11	5	871	5							
	by NSSE. Values	13	11-15 hrs	0	0	100	4	12	5	633	3							
	are estimated	18	16-20 hrs	2	2	81	3	7	3	591	3	2.7	5.3 ***	26	6.0 **	34	4.2 *	17
	number of hours	23	21-25 hrs	2	2	44	2	9	4	265	1		∇		▼		∇	
	per week.)	28	26-30 hrs	1	1	26	1	3	1	175	1							
		33	More than 30 hrs	2	2	188	8	19	8	1,155	6							
			Total	91	100	2,320	100	228	100	19,111	100							
h. Commuting to campus	tmcommutehrs	0	0 hrs	12	13	454	19	30	13	2,955	15							
(driving, walking, etc.)	(Recoded version	3	1-5 hrs	68	73	1,229	53	144	63	10,946	57							
	of tmcommute	8	6-10 hrs	8	9	420	18	29	13	3,490	18							
	created by NSSE.	13	11-15 hrs	2	2	109	5	7	3	1,058	6							
	Values are	18	16-20 hrs	3	3	61	3	5	2	402	2	3.7	4.8 **	20	5.5 **	28	4.8 **	21
	estimated number of hours per	23	21-25 hrs	0	0	23	1	5	2	145	1		∇		∇		∇	
	week.)	28	26-30 hrs	0	0	12	1	1	0	69	0		•		*		•	
	,	33	More than 30 hrs	0	0	26	1	8	3	153	1							
			Total	93	100	2,334	100	229	100	19,218	100							
16. Of the time you spe	end preparing for	· class i								,								
,	reading	1	Very little	44	47	675	29	73	32	5,914	31							
	(Revised for 2014.	2	Some	31	33	838	36	90	40	7,376	38							
	Comparison data	3	About half	11	12	447	19	37	16	3,574	19	1.9	2.3 ***	37	2.1 *	25	2.2 **	28
	are limited to	4	Most	5	5	275	12	17	7	1,682	9	1.7	₹	37	∇	23	∇	20
	NSSE 2014	5	Almost all	3	3	96	4	10	4	625	3		•		٧		٧	
	participating	3	Total	94	100	2,331	100	227	100	19,171	100							
	institutions.)		Total	24	100	2,331	100	221	100	19,171	100							
	tmreadinghrs																	
(Continuous vari	able created by NSSI	7 Calani	ated as a proportion									<i>5.</i> 2						
	sed on reading, where											5.2	5.7	08	5.7	08	5.5	06
	t half=.50; Most=.75																	



Frequencies and Statistical Comparisons: Engineering

	0 0						ıem	iessee	IEC	iiiioiog	ICal	University						
Seniors ^a in						Frequer	ncy D	istribution	S			-	Sta	atistical	Comparis	ons ^k		
ngineering															Your seniors c	ompared w	vith	
gccig										NSSE 2015	&							
				Tennessee 1	Гесh	Carnegie C	lass '	THEC Peer G	roup	2016		Tennessee Tech	Carneg		THEC Pee	•	NSSE 2015	
Item wording	Variable	Values ⁿ	, B	Count	0/	Count	0/	Count	0/	Ct	0/			Effect		Effect		Effect
or description	name' tmreadinghrscol	vaiues 1	Response options 0 hrs	Count 0	0	Count 16	% 1	Count 1	0	Count 88	% 0	Mean	Mean	size "	Mean	size ⁿ	Mean	size ⁿ
	_	1	More than zero,	O	U	10	1	1	U	00	U							
	(Collapsed version of tmreadinghrs	2	up to 5 hrs	62	66	1,384	60	143	63	11,587	61							
	created by NSSE.)	3	More than 5,	22	22	c0.1	26	£ 4	24	4.012	26							
		3	up to 10 hrs	22	23	604	26	54	24	4,912	26							
		4	More than 10,	4	4	130	6	8	4	1,129	6							
			up to 15 hrs															
		5	More than 15, up to 20 hrs	2	2	91	4	8	4	770	4							
			More than 20,															
		6	up to 25 hrs	3	3	74	3	10	4	427	2							
		7	More than 25 hrs	1	1	27	1	3	1	180	1							
			Total	94	100	2,326	100	227	100	19,093	100							
7. How much has you	ur experience at th	is insti	tution contributed to	vour knowled	løe. sk	ills, and ner	sonal	develonmen	t in the	following	areas'	?						
a. Writing clearly and	pgwrite	1		12	13	252	11	23	10	2,193	11							
effectively	10	2	Some	36	38	664	28	55	24	5,774	30							
		3	Quite a bit	26	28	850	36	88	38	6,979	36	2.6	2.7	18	2.8 *	28	2.7	13
		4	Very much	20	21	569	24	64	28	4,303	22	2.0	2.,	.10	▽	.20	2.,	
			Total	94	100	2,335	100	230	100	19,249	100				•			
b. Speaking clearly and	pgspeak	1	Very little	14	15	287	12	24	10	2,442	13							
effectively	101	2	Some	24	26	639	27	62	27	5,722	30							
		3	Quite a bit	33	35	841	36	82	36	6,821	36	2.7	2.7	03	2.8	10	2.7	.03
		4	Very much	23	24	560	24	61	27	4,200	22							
			Total	94	100	2,327	100	229	100	19,185	100							
c. Thinking critically and	pgthink	1	Very little	4	4	92	4	9	4	616	3							
analytically		2	Some	9	10	327	14	31	13	2,555	13							
		3	Quite a bit	32	34	805	35	62	27	6,567	34	3.3	3.3	.10	3.3	.00	3.3	.05
		4	Very much	49	52	1,107	47	128	56	9,480	49							
			Total	94	100	2,331	100	230	100	19,218	100							
										776	4							
Analyzing numerical	pganalyze	1	Very little	5	5	146	6	7	3	//0								
d. Analyzing numerical and statistical	pganalyze	1 2	Very little Some	5 11	5 12	146 395	6 17	7 42		2,889	15							
d. Analyzing numerical and statistical information	pganalyze		•						18 27	2,889		3.3	3.1	.16	3.3	.03	3.3	.04
and statistical	pganalyze	2	Some	11	12	395	17	42	18		15	3.3	3.1	.16	3.3	.03	3.3	.04



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy D	istribution	S				St	atistical	Comparis	sons ^k		
Engineering										NSSE 2015	: <i>Q</i> .	-			Your seniors o	ompared v	vith	
				Tennessee 1	Гесһ	Carnegie C	lass	THEC Peer G	roup	2016	, Q	Tennessee Tech	Carneg	ie Class	THEC Pee	r Group	NSSE 2015	5 & 2016
Item wording	Variable								<u> </u>					Effect		Effect		Effect
or description	name ¹	Values ⁿ		Count 8	9	Count 211	9	Count 20	9	1,588	% 8	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
e. Acquiring job- or work- related knowledge and	pgwork	2	Very little Some		23		22			4,190								
skills		3		22		507		48	21		22 34	3.0	2.0	0.1	2.0	0.1	2.0	0.1
			Quite a bit	29	31	751	32	83	36	6,509		3.0	3.0	01	3.0	.01	3.0	01
		4	Very much Total	35	37	867	37	78	34	6,943	36							
£ W1-:		1		94	7	2,336	100	229	100	19,230	100							
f. Working effectively with others	pgothers	2	Very little	6		138	6	11	5 22	1,115 4,222	6							
Will dilets		_	Some	17	18	502	22	50			22	2.1						
		3	Quite a bit	30	33	896	38	84	37	7,347	38	3.1	3.0	.11	3.1	.06	3.0	.12
		4	Very much	39	42	797	34	85	37	6,515	34							
D 1:			Total	92	100	2,333	100	230	100	19,199	100							
g. Developing or clarifying a personal	pgvalues	1	Very little	21	22	442	19	53	23	3,439	18							
code of values and		2	Some	20	21	688	30	60	26	5,822	30	2.6						
ethics		3	Quite a bit	30	32	660	28	61	27	5,745	30	2.6	2.6	.03	2.5	.06	2.6	.03
		4	Very much	23	24	540	23	55	24	4,217	22							
			Total	94	100	2,330	100	229	100	19,223	100							
h. Understanding people of other backgrounds	pgdiverse	1	Very little	18	19	491	21	44	19	3,953	21							
(economic,		2	Some	33	35	744	32	83	36	6,465	34	2.4						
racial/ethnic, political,		3	Quite a bit	28	30	651	28	65	28	5,283	28	2.4	2.4	02	2.4	.01	2.4	01
religious, nationality,		4	Very much	15	16	441	19	37	16	3,485	18							
etc.)			Total	94	100	2,327	100	229	100	19,186	100							
i. Solving complex real- world problems	pgprobsolve	1	Very little	8	9	270	12	26	11	1,803	9							
world problems		2	Some	17	18	568	24	54	23	4,537	24	2.0						
		3	Quite a bit	35	38	748	32	62	27	6,416	33	3.0	2.8	.16	2.9	.08	2.9	.09
		4	Very much	33	35	742	32	88	38	6,463	34							
· D · · · · · · · · ·	•,•		Total	93	100	2,328	100	230	100	19,219	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	26	28	575	25	64	28	4,682	24							
acaro omzon		2	Some	29	31	825	35	80	35	6,825	36	2.2	2.2	0.5	2.0	0.1	2.0	0.5
		3	Quite a bit	28	30	539	23	48	21	4,792	25	2.3	2.3	06	2.3	01	2.3	05
		4	Very much	11	12	386	17	38	17	2,850	15							
			Total	94	100	2,325	100	230	100	19,149	100							



Frequencies and Statistical Comparisons: Engineering

Seniors ^a in						Frequer	ncy Di	stribution	ıS				Sta	atistical	Compari	sons ^k		
Engineering															Your seniors o	ompared v	vith	
Linginieering										NSSE 2015	8							
				Tennessee 7	Гесһ	Carnegie C	lass T	HEC Peer G	roup	2016		Tennessee Tech	Carneg	ie Class	THEC Pee	er Group	NSSE 201	5 & 2016
Item wording	Variable													Effect		Effect		Effect
or description	name'	Values	m Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	size ⁿ	Mean	size ⁿ	Mean	size ⁿ
18. How would you eva	aluate your enti	ire educ	ational experience at tl	nis institution	?													
	evalexp	1	Poor	7	7	98	4	10	4	716	4							
		2	Fair	9	9	376	16	34	15	2,844	15							
		3	Good	40	42	1,102	47	99	43	9,043	47	3.2	3.1	.10	3.1	.03	3.1	.05
		4	Excellent	39	41	773	33	87	38	6,701	35							
			Total	95	100	2,349	100	230	100	19,304	100							
19. If you could start of	over again, wou	ld you g	o to the same institution	n you are nov	w atte	nding?												
	sameinst	1	Definitely no	7	7	149	6	17	7	1,052	5							
		2	Probably no	8	8	407	17	29	13	2,748	14							
		3	Probably yes	41	43	999	43	90	39	8,207	42	3.2	3.0	.16	3.1	.05	3.1	.06
		4	Definitely yes	39	41	790	34	94	41	7,318	38							
			Total	95	100	2,345	100	230	100	19,325	100							



Respondent Profile: Engineering

Eng	gineering					First-Y	'ear	Students	3					Se	enior	's ^a			
										NSSE 2015	&							NSSE 201	5 &
				Tennessee ⁻	Гесһ	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Tec	:h	Carnegie Class	s TH	IEC Peer G	iroup	2016	
	Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	9
20a.	How many majors do	MAJnum	One	75	97	1,893	90	158	91	14,394	89	86	91	2,134	91	210	91	17,514	9
	you plan to complete?		More than one	2	3	199	10	16	9	1,794	11	9	9	220	9	21	9	1,858	1
	(Do not count minors.)		Total	77	100	2,092	100	174	100	16,188	100	95 1	100	2,354 1	100	231	100	19,372	10
	First major or expected	MAJfirstcol	Arts & Humanities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	first major, in NSSE's default related-major	(Recoded from MAJfirst.)	Biological Sci., Agriculture, & Natural Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	categories.	WIAJIIISt.)	Physical Sci., Mathematics,	12	16	513	25	52	30	4,043	25	9	9	406	17	53	23	3,742	1
	(Does not reflect any		& Computer Science Social Sciences		0				0		0	0	0	0	0		0	,	
	customization made		Business	0	0	0	0			0		0	0	0	0	0	0	0	
	for the Major Field Report)		Communications, Media,	0	0	0	0		0	0	0	0	0	0	0	0	0	0	
			& Public Relations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Education Engineering	65	84	1,358	65	116	67	10,980	68		85		66	163	71	13,637	7
			Health Professions	0	0	1,336	0.5		0	10,980	0	0	0	0	0	0	0	13,037	,
			Social Service Professions	0	0	0	0		0	0	0	0	0	0	0	0	0	0	
			All Other	0	0	221	11	6	3	1,166	7	5	5		16	15	6	1,993	1
			Undecided, Undeclared	0	0	0	0		0	0	0	0	0	0	0	0	0	0	1
			Total	77	100	2,092	100	174	100	16,189	100	Ů	100		100	231	100	19,372	10
	Second major or	MAJsecondcol	Arts & Humanities	0	0	16	8		25	239	13		38	7	3	231	100	203	1
	expected second major, in NSSE's default	(Recoded from	Biological Sci., Agriculture, & Natural Resources	0	0	3	2	0	0	49	3	0	0	4	2	0	0	43	•
	related-major categories.	MAJsecond.)	Physical Sci., Mathematics, & Computer Science	0	0	55	28	4	25	484	27	0	0	62	28	7	33	540	2
	_		Social Sciences	0	0	8	4	0	0	86	5	0	0	7	3	0	0	100	
	(Does not reflect any		Business	1	50	29	15	3	19	188	11	2	25	27	12	2	10	185	1
	customization made for the Major Field		Communications, Media, & Public Relations	0	0	1	1	0	0	17	1	0	0	3	1	1	5	14	
	Report)		Education	0	0	2	1	0	0	30	2	0	0	4	2	0	0	16	
			Engineering	1	50	61	31	5	31	523	29	3	38	67	31	5	24	524	2
			Health Professions	0	0	4	2	0	0	21	1	0	0	2	1	0	0	22	
			Social Service Professions	0	0	6	3	0	0	28	2	0	0	7	3	1	5	33	
			All Other	0	0	11	6	0	0	88	5	0	0	25	11	3	14	131	
			Undecided, Undeclared	0	0	0	0	0	0	24	1	0	0	3	1	0	0	26	
			Total	2	100	196	100	16	100	1,777	100	8 1	100	218 1	100	21	100	1,837	10



Respondent Profile: Engineering

En	gineering					First-Y	ear	Students ^a	1					Se	niors ^a				
										NSSE 2015	8							NSSE 2015	5 &
				Tennessee 7	Гесһ	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee Te	ch	Carnegie Class	THEC Pee	r Gro	oup	2016	
	Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	% Cour	t	%	Count	%
21.	What is your class	class	Freshman/First-year	66	86	1,782	86	141	82	14,308	89	0	0	4	0	0	0	70	0
	level?		Sophomore	10	13	235	11	29	17	1,404	9	0	0	40	2	7	3	347	2
			Junior	1	1	32	2	1	1	237	1	4	4	251	11 3	3	14	2,587	13
			Senior	0	0	10	0	0	0	64	0	87	92	2,002	85 18	8	82	15,897	82
			Unclassified	0	0	10	0	0	0	70	0	4	4	51	2	2	1	390	2
			Total	77	100	2,069	100	171	100	16,083	100	95	100	2,348 10	00 23	0	100	19,291	100
22.	Thinking about this	fulltime	No	1	1	90	4	6	3	505	3	13	14	478	20 4	5	19	3,382	18
	current academic term,		Yes	75	99	1,976	96	166	97	15,516	97	79	86	1,862	80 18	6	81	15,800	82
	are you a full-time student?		Total	76	100	2,066	100	172	100	16,021	100	92	100	2,340 10	00 23	1	100	19,182	100
23a.	How many courses are	coursenum	0	0	0	11	1	1	1	47	0	3	3	89	4	0	0	441	2
	you taking for credit		1	0	0	20	1	1	1	105	1	4	4	94	4	6	3	612	3
	this current academic		2	0	0	27	1	2	1	212	1	3	3	192	8 1	9	8	1,248	6
	term?		3	1	1	78	4	11	6	594	4	9	10	276	12 4	3	19	1,958	10
			4	17	22	527	25	51	29	4,379	27	23	25			7	33	5,380	28
			5	42	55	826	40	54	31	6,433	40	23	25	540	23 3	1	13	5,616	29
			6	12	16	343	17	19	11	2,636	16	16	17	277	12 2	1	9	2,350	12
			7 or more	5	6	239	12	34	20	1,667	10	12	13		9 3	4	15	1,677	9
			Total	77	100	2,071	100	173	100	16,073	100	93	100	2,343 10	00 23	1	100	19,282	100
b	Of these, how many are	onlinenum	0	70	91	1,739	85	144	84	14,194	89	82	88		74 18		81	15,426	80
	entirely online?		1	4	5	199	10	21	12	1,212	8	9	10	311	13 2	7	12	2,262	12
			2	2	3	41	2	1	1	295	2	1	1	126	5	3	1	806	4
			3	1	1	19	1	3	2	92	1	0	0	52	2	8	3	315	2
			4	0	0	21	1	2	1	82	1	0	0	39	2	1	0	171	1
			5	0	0	7	0	0	0	27	0	0	0	22	1	0	0	78	0
			6	0	0	9	0		0	26	0	0	0	15	1	1	0	48	0
			7 or more	0	0	17	1	1	1	48	0	1	1	31	1	3	1	88	0
			Total	77	100	2,052	100	172	100	15,976	100	93	100		00 22		100	19,194	100
	Collapsed recode of	onlinecrscol	No courses taken online	70	91	1,739	85		84	14,192	89	82	88		74 18		81	15,426	80
	courses taken online		Some courses taken online	7	9	233	11		14	1,468	9	9	10		16 3		16	2,816	15
	(Based on responses to		All courses taken online	0	0	80	4		2	314	2	2	2			6	3	952	5
	coursenum <i>and</i> onlinenum)		Total	77	100	2,052	100		100	15,974	100		100		00 22		100	19,194	100



Respondent Profile: Engineering

Eng	gineering					First-Y	'ear	Students	a					:	Sen	iors ^a			
										NSSE 2015	&							NSSE 2015	5 &
				Tennessee '	Tech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee T	ech	Carnegie Cl	ass	THEC Peer G	roup	2016	
	Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
24.	What have most of your	grades	C- or lower	1	1	47	2		2	294	2	2	2		1	1	0	96	0
	grades been up to now		C	2	3	52	3	7	4	473	3	6	6	48	2	4	2	508	3
	at this institution?		C+	4	5	82	4	6	3	703	4	4	4	130	6	19	8	1,042	5
			B-	5	6	144	7	14	8	1,093	7	7	8	205	9	29	13	1,644	9
			В	15	19	370	18	28	16	3,020	19	25	27	497	21	45	19	4,059	21
			B+	12	16	415	20	36	21	2,987	19	7	8	405	17	41	18	3,535	18
			A-	12	16	376	18	29	17	3,050	19	17	18	394	17	34	15	3,376	18
			A	26	34	586	28	49	28	4,428	28	25	27	650	28	58	25	5,006	26
			Total	77	100	2,072	100	173	100	16,048	100	93	100	2,343	100	231	100	19,266	100
	Did you begin college	begincol	Started here	67	87	1,875	91	154	90	14,748	92	61	66	1,307	56	132	57	11,365	59
	at this institution or		Started elsewhere	10	13	187	9	18	10	1,288	8	32	34	1,038	44	. 99	43	7,885	41
	elsewhere?		Total	77	100	2,062	100	172	100	16,036	100	93	100	2,345	100	231	100	19,250	100
	Since graduating from	attend_voc	Vocational or technical school	1	1	84	4	8	5	479	3	4	4	201	9	28	12	1,323	7
	high school, which of	attend_com	Community or junior college	13	17	139	7	9	5	1,147	7	32	34	851	36	69	30	7,136	37
	the following types of schools have you	attend_col	4-year college or university other than this one	1	1	176	9	19	11	1,178	7	17	18	603	26	68	30	4,640	24
	attended other than the	attend_none	None	61	79	1,620	79	134	78	12,974	81	47	51	1,013	43	99	43	8,745	46
	one you are now attending? (Select all	attend_other	Other	2	3	105	5	6	3	591	4	3	3	118	5	10	4	750	4
	that apply.)																		
	What is the highest level of education you	edaspire	Some college but less than a bachelor's degree	3	4	102	5	10	6	616	4	3	3	110	5	18	8	750	4
	ever expect to		Bachelor's degree (B.A., B.S., etc.)	36	47	808	39	82	47	6,303	39	34	37	969	41	110	48	7,659	40
	complete?		Master's degree (M.A., M.S., etc.)	31	40	889	43	57	33	6,985	44	42	46	981	42	69	30	8,411	44
			Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	7	9	259	13	24	14	2,079	13	13	14	281	12	34	15	2,413	13
			Total	77	100	2,058	100	173	100	15,983	100	92	100	2,341	100	231	100	19,233	100



Respondent Profile: Engineering

En	gineering					First-Y	ear	Students	3					Se	enic	ors ^a			
										NSSE 2015	8							NSSE 201	5 &
				Tennessee	Tech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee T	ech	Carnegie Clas	SS T	ΓHEC Peer G	roup	2016	
	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	2	3	134	7		5	702	4	4	4	139	6	6	3	803	4
	level of education		High school diploma or G.E.D.	13	17	321	16	36	21	2,231	14	20	22	401	17	41	18	2,910	15
	completed by either of your parents (or those		Attended college, but did not complete degree	8	10	213	10	25	14	1,460	9	5	5	237	10	23	10	1,796	9
	who raised you)?		Associate's degree (A.A., A.S., etc.)	6	8	168	8	8	5	1,370	9	4	4	256	11	22	10	1,854	10
			Bachelor's degree (B.A., B.S., etc.)	29	38	614	30	45	26	5,199	33	28	30	744	32	84	37	6,330	33
			Master's degree (M.A., M.S., etc.)	16	21	461	22	40	23	3,742	23	24	26	395	17	34	15	4,030	21
			Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	3	4	145	7	10	6	1,267	8	8	9	167	7	20	9	1,500	8
			Total	77	100	2,056	100	173	100	15,971	100	93	100	2,339	100	230	100	19,223	100
	First-generation status	firstgen	Not first-generation	48	62	1,220	59	95	55	10,208	64	60	65	1,306	56	138	60	11,860	62
	(No parent holds a	(Recoded from	First-generation	29	38	836	41	78	45	5,763	36	33	35	1,033	44	92	40	7,363	38
	bachelor's degree)	parented)	Total	77	100	2,056	100	173	100	15,971	100	93	100	2,339	100	230	100	19,223	100
29.	What is your gender	genderid	Man	52	68	1,516	74	131	76	11,524	72	70	75	1,780	76	179	78	14,252	74
	identity?		Woman	22	29	498	24	40	23	4,120	26	21	23	517	22	47	20	4,488	23
			Another gender identity	2	3	19	1	0	0	134	1	2	2	9	0	3	1	125	1
			I prefer not to respond	0	0	24	1	1	1	226	1	0	0	36	2	1	0	345	2
			Total	76	100	2,057	100	172	100	16,004	100	93	100	2,342	100	230	100	19,210	100
30.	Enter your year of birth	agecat	19 or younger	70	92	1,752	85	142	83	14,005	88	0	0	14	1	1	0	122	1
	(e.g., 1994):	(Recoded	20-23	5	7	177	9	19	11	1,287	8	68	73	1,359	59	131	57	12,247	64
		from the	24-29	0	0	49	2	7	4	296	2	15	16	464	20	44	19	3,838	20
		information	30-39	1	1	38	2	3	2	206	1	7	8	315	14	37	16	1,919	10
		entered in	40-55	0	0	31	2	0	0	126	1	1	1	146	6	14	6	881	5
		birthyear)	Over 55	0	0	4	0	1	1	16	0	2	2	23	1	1	0	99	1
			Total	76	100	2,051	100	172	100	15,936	100	93	100	2,321	100	228	100	19,106	100
31a.	Are you an	internat	No	73	97	1,852	90	151	88	14,528	91	86	92	2,205	95	210	91	18,038	94
	international student?		Yes	2	3	198	10	21	12	1,360	9	7	8	122	5	20	9	1,070	6
			Total	75	100	2,050	100	172	100	15,888	100	93	100	2,327	100	230	100	19,108	100
	International student	countrycol	Africa Sub-Saharan	0	0	17	9	1	6	128	10	0	0	12	10	2	10	88	9
	country of citizenship,	(Recoded from	Asia	0	0	45	23	8	44	565	43	0	0	32	27	3	15	469	46
	collapsed into regions by NSSE. Responses to	country.)	Canada	0	0	1	1	0	0	18	1	0	0	0	0	0	0	18	2
	country are in the data	comm y.,	Europe	0	0	14	7	1	6	93	7	0	0	7	6	1	5	78	8
	file. U.S. (domestic)		Latin America and Caribbean	0	0	43	22	0	0	227	17	1	14	19	16	1	5	146	14
	students did not receive		Middle East and North Africa	1	50	71	37	8	44	273	21	6	86	49	41	13	65	216	21
	this question.		Oceania	1	50	1	1	0	0	4	0	0	0	0	0	0	0	3	C
			Unknown region/uncoded	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0
			Total	2	100	193	100	18	100	1,309	100	7	100	119	100	20	100	1,018	100



Respondent Profile: Engineering

Er	gineering					First-Y	ear S	Students	a					Se	enic	ors ^a			
										NSSE 2015	8							NSSE 2015	5 &
				Tennessee 1	Гесһ	Carnegie Cl	lass 7	THEC Peer G	roup	2016		Tennessee Teo	ch	Carnegie Clas	s T	THEC Peer G	roup	2016	
	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	35	2	5	3	310	2	1	1	31	1	4	2	325	2
	ethnic identification?	re_asian	Asian	2	3	242	12	19	11	2,140	13	5	5	218	9	11	5	2,120	11
	(Select all that apply.)	re_black	Black or African American	3	4	239	12	40	23	1,311	8	3	3	196	8	35	15	1,203	6
		re_latino	Hispanic or Latino	4	5	372	18	9	5	1,914	12	1	1	320	14	9	4	1,814	9
		re_pacific	Native Hawaiian or Other Pacific Islander	1	1	25	1	3	2	166	1	0	0	14	1	2	1	163	1
		re_white	White	69	91	1,164	57	98	57	10,514	66	81	87	1,567	67	169	73	13,685	71
		re_other	Other	0	0	88	4	9	5	514	3	3	3	74	3	12	5	476	2
		re_pnr	I prefer not to respond	2	3	81	4	6	3	624	4	2	2	114	5	8	3	921	5
	Racial or ethnic	re_all	American Indian or Alaska Native	0 0 88 4 9 5 514 3 3 3 74 3 12 5 2 3 81 4 6 3 624 4 2 2 114 5 8 3 0 0 0 12 1 2 1 58 0 0 0 6 0 1 0 1 1 1 189 9 14 8 1,746 11 5 5 170 7 8 3 1 1 1 199 10 35 20 1,032 6 2 2 160 7 31 13 2 3 298 15 5 3 1,371 9 1 1 252 11 5 2 der 1 1 5 0 0 0 0 38 0 0 0 0 4 0 0 0	0	73	0												
	identification	(Recoded from	Asian	1	1	189	9	14	8	1,746	11	5	5	170	7	8	3	1,709	9
		re_amind	Black or African American	1	1	199	10	35	20	1,032	6	2	2	160	7	31	13	989	5
		through	Hispanic or Latino	2	3	298	15	5	3	1,371	9	1	1	252	11	5	2	1,301	7
		re_pnr	Native Hawaiian/Other Pac. Islander	1	1	5	0	0	0	38	0	0	0	4	0	0	0	46	0
		where each student is	White	63	83	1,049	51	92	53	9,492	59	79	85	1,427	61	158	69	12,602	66
		represented only	Other	0	0	65	3	7	4	353	2	2	2	44	2	7	3	309	2
		once)	Multiracial	6	8	153	7	11	6	1,259	8	2	2	161	7	12	5	1,248	7
			I prefer not to respond	2	3	81	4	6	3	624	4	2	2	114	5	8	3	921	5
			Total	76	100	2,051	100	172	100	15,973	100	93	100	2,338	100	230	100	19,198	100
33.	Are you a member of a	greek	No	6 8 153 7 11 6 1,259 8 2 2 161 7 12 5 2 3 81 4 6 3 624 4 2 2 114 5 8 3 76 100 2,051 100 172 100 15,973 100 93 100 2,338 100 230 100 70 92 1,947 95 154 91 14,611 92 85 92 2,122 91 201 88	17,000	89													
	social fraternity or		Yes	6	8	101	5	16	9	1,324	8	7	8	205	9	28	12	2,153	11
	sorority?		Total	76	100	2,048	100	170	100	15,935	100	92	100	2,327	100	229	100	19,153	100
34.	Which of the following	living	Dormitory or other campus housing	57	75	1,196	58	104	61	10,179	64	13	14	323	14	33	14	2,461	13
	Which of the following best describes where		(not fraternity or sorority house) Fraternity or sorority house	0	0	13	1	0	0	208	1	1	1	42	2	2	1	516	3
			Residence (house, apartment, etc.)	U	U	13	1	U	U	208	1	1	1	42	2	2	1	310	3
	you are living while attending college?		within walking distance to the	7	9	170	8	23	14	1,353	8	31	33	459	20	52	23	5,653	29
			institution																
			Residence (house, apartment, etc.)																
			farther than walking distance	9	12	572	28	43	25	3,726	23	47	51	1,379	59	134	58	9,945	52
			to the institution	3	4	99	5	0	0	160	3	1	1	132	6	9	4	614	2
			None of the above Total	3 76	100	2,050	100	170	100	468 15,934	100	93	1 100		6 100	230	100	614 19,189	3 100
35.	Are you a student-	athlete	No	75	99	1,941	95	161	94	15,934	93		97		96	230	98	18,416	96
33.	athlete on a team	atmete	Yes	15	99	,	95 5		94 6		93 7	3	3	2,234	96 4	4	98 2	675	96 4
	sponsored by your		Y es Total	1 76	100	105 2,046	100	11 172	100	1,081 15,884	100		100		4 100	229	100	19,091	100
	institution's athletics		TOTAL	76	100	2,040	100	1/2	100	13,084	100	95 .	100	2,323	100	229	100	19,091	100
	department?																		_



Respondent Profile: Engineering

Engineering						First-Y	ear	Students	a		Seniors ^a									
	_									NSSE 2015	8							NSSE 2015	5 &	
				Tennessee '	Tech	Carnegie Cl	ass	THEC Peer G	roup	2016		Tennessee T	ech	Carnegie Cla	ass	THEC Peer G	iroup	2016		
	Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
36.	Are you a current or	veteran	No	75	100	1,982	97	167	98	15,508	97	85	93	2,089	90	210	93	17,691	93	
	former member of the		Yes	0	0	64	3	4	2	399	3	6	7	231	10	17	7	1,424	7	
	U.S. Armed Forces, Reserves, or National		Total	75	100	2,046	100	171	100	15,907	100	91	100	2,320	100	227	100	19,115	100	
	Guard?																			
37a.	Have you been	disability	No	67	88	1,765	86	147	85	13,960	88	82	88	1,979	85	196	86	16,578	86	
	diagnosed with any		Yes	5	7	199	10	17	10	1,408	9	8	9	257	11	24	10	1,939	10	
	disability or impairment?		I prefer not to respond	4	5	89	4	8	5	585	4	3	3	93	4	9	4	675	4	
	impairment:		Total	76	100	2,053	100	172	100	15,953	100	93	100	2,329	100	229	100	19,192	100	
b.	[If answered "yes"] Which of the following	dis_sense	A sensory impairment (vision or hearing)	0	0	31	16	3	19	241	17	0	0	56	22	1	4	334	17	
	has been diagnosed?	dis_mobility	A mobility impairment	1	20	14	7	0	0	88	6	0	0	27	11	1	4	188	10	
	(Select all that apply.)	dis_learning	A learning disability (e.g., ADHD, dyslexia)	3	60	109	55	13	81	749	54	3	38	119	47	17	71	954	50	
		dis_mental	A mental health disorder	1	20	44	22	2	13	354	25	5	63	67	26	3	13	531	28	
		dis_other	A disability or impairment not listed above	0	0	31	16	1	6	244	17	2	25	58	23	4	17	401	21	
	Disability or	disability_all	A sensory impairment	0	0	22	1	2	1	165	1	0	0	37	2	1	0	216	1	
	impairment	(Recoded from	A mobility impairment	1	1	11	1	0	0	53	0	0	0	12	1	1	0	88	0	
		disability and	A learning disability	3	4	84	4	10	6	572	4	2	2	82	4	15	7	695	4	
		dis_sense	A mental health disorder	1	1	23	1	0	0	195	1	3	3	26	1	1	0	275	1	
		through	A disability or impairment not listed	0	0	27	1	1	1	171	1	1	1	39	2	4	2	257	1	
		dis_other where each student is	More than one disability or impairment	0	0	30	1	3	2	244	2	2	2	59	3	2	1	391	2	
		represented only once)	No disability or impairment	67	88	1,765	86	147	86	13,960	88	82	88	1,979	85	196	86	16,578	86	
		onee)	Prefer not to respond	4	5	89	4	8	5	585	4	3	3	93	4	9	4	675	4	
			Total	76	100	2,051	100	171	100	15,945	100	93	100	2,327	100	229	100	19,175	100	
38.	Which of the following	sexorient14	Heterosexual			722	82	35	90	6,322	86			841	86	71	86	7,943	87	
	best describes your		Gay			16	2	1	3	93	1			14	1	4	5	136	1	
	sexual orientation?		Lesbian			6	1	0	0	42	1			6	1	1	1	59	1	
	(Question		Bisexual			22	3	0	0	206	3			25	3	2	2	244	3	
	administered per		Another sexual orientation			24	3	0	0	123	2			10	1	2	2	112	1	
	institution request)		Questioning or unsure			14	2	0	0	127	2			14	1	0	0	77	1	
			I prefer not to respond			72	8	3	8	441	6			69	7	3	4	609	7	
			Total			876	100	39	100	7,354	100			979	100	83	100	9,180	100	



Respondent Profile: Engineering

ngineering					First-Y	ear	Students ⁶	9		Seniors ^a									
					NSSE 2015 &										NSSE 2015	5 &			
			Tennessee Tech		Carnegie Class		THEC Peer G	roup	2016		Tennessee Tech		Carnegie Clas	s THEC	Peer G	roup	2016		
Item wording or description	Variable name	Response entions	Count	%	Count	%	Count	%	Count	0/	Count	%	Count	%	Count	%	Count		
itution-reported info		Response options	Count	/0	Count	/0	Count	/0	Count	%_	Count	/0	Count	/6	Count	/0	Count		
ables provided by your inst		SE population file.)																	
Institution-reported sex	IRsex	Female	23	30	525	25	41	24	4,266	26	22	23	524	22	46	20	4,608		
institution reported sex		Male	54	70	1,567	75	133	76	11,920	74		77	1,830	78	185	80	14,763		
		Total	77	100	2,092	100	174	100	16,186	100		00	<i>'</i>	00	231	100	19,371		
Institution-reported	IRrace	American Indian or Alaska Native	0	0	6	0	1	1	69	0	0	0	15	1	2	1	102	_	
race or ethnicity		Asian	1	1	115	6	6	3	1,084	7	4	4	115	5	5	2	1,136		
		Black or African American	1	1	173	9	37	21	949	6	2	2	161	7	30	13	951		
		Hispanic or Latino	0	0	324	17	3	2	1,649	11	0	0	280	13	5	2	1,630		
		Native Hawaiian/Other Pac. Islander	0	0	0	0	0	0	42	0	0	0	3	0	0	0	63		
		White	67	87	1,003	51	91	52	9,052	60	89	94	1,324	60	158	68	12,093		
		Other	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0		
		Foreign or nonresident alien	0	0	167	9	21	12	1,158	8	0	0	102	5	21	9	918		
		Two or more races/ethnicities	7	9	64	3	7	4	469	3	0	0	53	2	4	2	507		
		Unknown	1	1	107	5	8	5	484	3	0	0	160	7	6	3	723		
		Total	77	100	1,959	100	174	100	14,962	100	95 1	00	2,213 1	00	231	100	18,123		
Institution-reported	IRclass	Freshman/First-Year	77	100	2,092	100	174	100	16,189	100	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		
		Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		Senior	0	0	0	0	0	0	0	0	95 1	00	2,354 1	00	231	100	19,372		
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		Total	77	100	2,092	100	174	100	16,189	100	95 1	00	2,354 1	00	231	100	19,372		
Institution-reported first-time first-year (FTFY) status	IRftfy	No	6	8	273	13	35	20	1,694	10	95 1	00	2,354 1	00	231	100	19,208		
		Yes	71	92	1,819	87	139	80	14,491	90	0	0	0	0	0	0	164		
		Total	77	100	2,092	100	174	100	16,185	100	95 1	00	2,354 1	00	231	100	19,372	_	
Institution-reported	IRenrollment	Not full-time	1	1	90	4	4	2	664	4	14	15	365	16	42	18	3,050		
enrollment status		Full-time	76	99	2,002	96	170	98	15,525	96	81	85	1,989	84	189	82	16,322		
		Total	77	100	2,092	100	174	100	16,189	100	95 1	00	2,354 1	00	231	100	19,372		



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 < .001 (2-tailed).
- g. Cohen's d: The mean difference divided by the pooled standard deviation. Effect size indicates the practical importance of an observed difference. For EI comparisons, NSSE research has concluded that an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview.
- h. Percentage of students who responded "Done or in progress" except for service-learning which is the percentage who responded that at least "Some" courses included a community-based project.
- i. *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.
- △ 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.